

Programme 2006



STAHLWILLE's Corporate Philosophy

When we design and manufacture tools, this is always done with a view to maximising customer satisfaction. When we review and improve our STAHLWILLE range of tools, we do the same.

Maintaining consistently high quality standards is part of our company's guiding philosophy. A key partner in implementing this quality-orientated idea is the wholesaler. We work together with the most efficient companies in the market.

By insisting on high-quality advice, we ensure that you always receive the ideal tool for a specific application.

STAHLWILLE quality provides you with the certainty that you are in possession of a perfect tool designed specifically for practical application. A tool which is stronger, more durable and, as a result, more economical.

STAHLWILLE products are manufactured exclusively in German production facilities. Our entire range of tightening tools is manufactured throughout the production process, from the forging blank through to the finished product, in our own production facilities.

In the unlikely event of a STAHLWILLE product not fulfilling these high quality standards in terms of a material or manufacturing defect, despite our stringent quality and safety control mechanisms, we undertake to replace it free of charge. Guaranteed.

STAHLWILLE is a signatory to the "Lokale Agenda 21", an ecological agreement between companies that is unique in Northrhine-Westphalia. The idea was spawned by the worldwide environmental "Agenda 21", agreed in 1992 in Rio de Janeiro.

The Management of
Eduard Wille GmbH & Co. KG,
Wuppertal



Our long tradition of success



The founder

The nail foundry originally founded by Eduard Wille in 1862 soon developed to become a respected manufacturer of high-grade tools. The attention of STAHLWILLE to quality, diversity of the products offered and specialisation ensured that this family business maintained its steady progress through even the toughest of crises.

Today, a consistent customer-driven approach complements the tried-and-tested principles to provide a solid foundation for the future.



The first staff



Quality Tools "Made in Germany"



Quality is best for business. This philosophy has long been a tradition at STAHLWILLE. This is why all the production stages necessary to manufacture our high-grade tools are performed exclusively at our German facilities. The "Made in Germany" mark guarantees this quality principle – from forging through to the finished product.

Not only that, our excellent designs, high-grade materials, precision machining processes and assured quality are the features that our customers in the automotive and aerospace industries in 100 countries around the world have come to appreciate.



Effort in, quality out

Our handtools are designed on the basis that they are an extension to your hand. Intelligent designs ensure they can deal with considerable loads, guarantee close tolerances, provide easy and safe handling and a high degree of reliability. Special

forging techniques give the already high-grade steel the ideal molecular structure. Our round-finishing process ensures tools are easy to grip and pleasant to grasp. The result: tools with excellent value-for-money ratings.



Skills of the highest level

When it comes to maintenance and repair on modern vehicles, it is safety, precision and speed that count most. It is not just the presence of the skilled mechanic but his access to specialist, high-grade tools that makes the difference. In conjunction with leading vehicle manufacturers, we develop complete series of specialist tools for truly professional repair shop use. This is our contribution to worldwide freedom of movement.

The off-shore, ship-building and mining industries, engineering for the chemicals and petrochemicals industry, construction machinery engineering and power station construction all

require us to think in different dimensions. It is under these conditions that our tools prove their worth time and again as they contribute to safety and ergonomic working practices.

In the aerospace industry, safety is of the utmost priority. Our high-grade tools and sets of tools are specifically designed for service work in these critical areas. Take, for example, tools in High Performance Quality that meet the stringent demands of European and American aerospace standards.

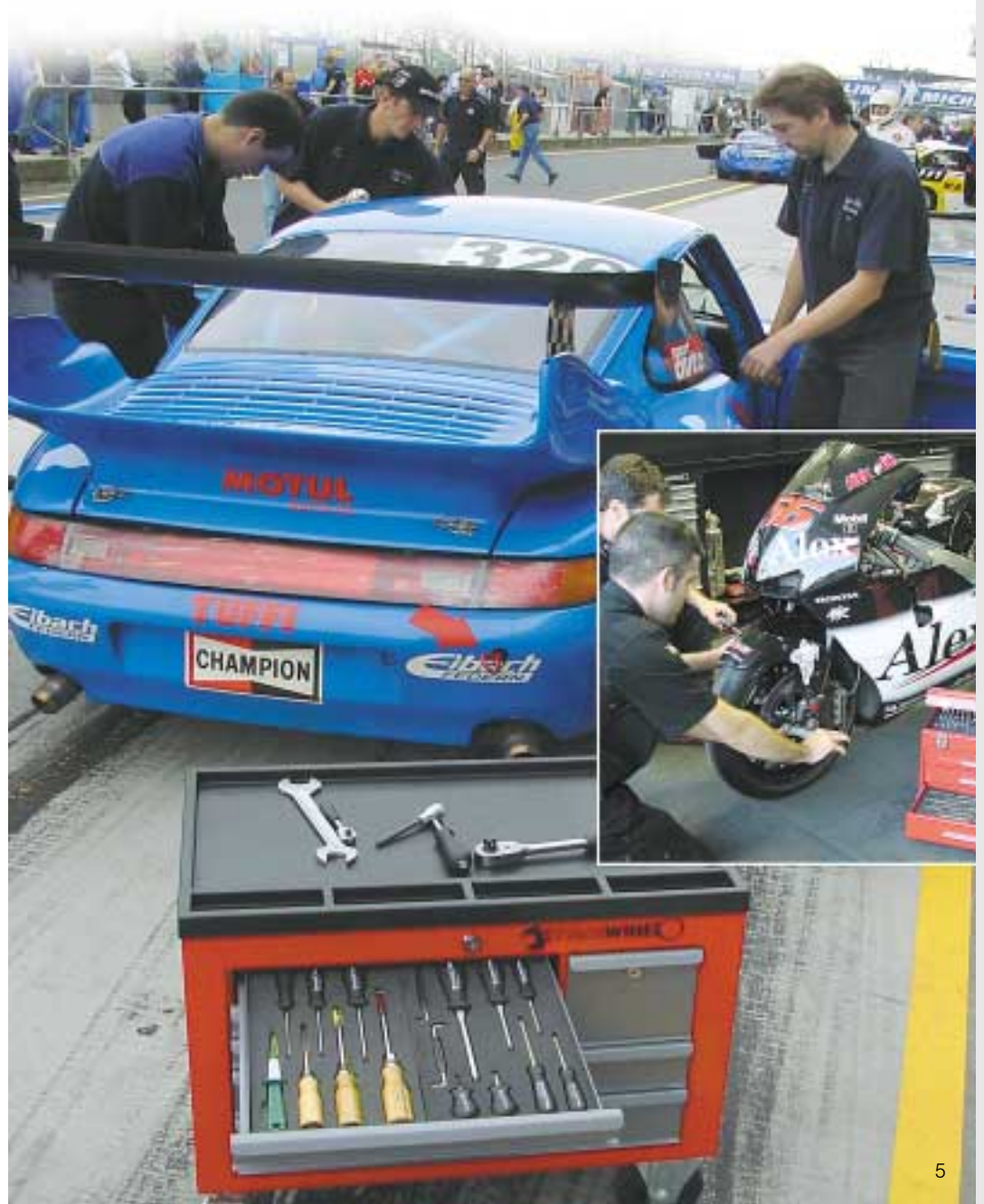
Tools for Hi-Lok bolts or the TCS (Tool Control System) awarded the Aerospace Industry Award.



A reliable partner for your mobility – worldwide

STAWLWILLE tools are not only the professional's preferred choice in the automotive sector and vehicle workshops worldwide, the field of motor sports – which has always been a test bed for new ideas – has long been a traditional environment for STAWLWILLE technologies. As technical sponsors, we and our tools are constantly at the very heart of the

action – gathering new ideas to assist in the further development and design of our tools. A valuable investment in the future. We aim to maintain our pole position as a leading-edge manufacturer of world-class quality tools by continuous improvement of our tools by our experts based in Germany, backed up by a Quality Assurance System to DIN EN ISO 9001.



And certified to DIN EN ISO 9001

After STAHLWILLE was certified,
as one of the very first companies back in 1990,
to DIN EN ISO 9002, our Quality Assurance System
was also certified to DIN EN ISO 9001 in 1992.



45aP
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45aPSP
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7370/40-1
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 ■ 90



45/14/5iTCS
 ■ 110



1100TCS
 ■ 332



2501TCS
 ■ 303



52/17/6TCS
 ■ 131



*Eduard Wille GmbH & Co. KG
Lindenallee 27
P.O. Box 12 01 03
42331 Wuppertal
Germany*

*Tel.: +49 202 4791-0
Fax: +49 202 4791-355
export@stahlwille.de
www.stahlwille.de*

We reserve the right to alter dimensional details in order to carry out improvements.

All photographs used in this catalogue represent the tools as closely as possible to their natural appearance. Model changes may take place without prior notice as in the case of design improvements.

We observe all legal requirements relating to tools and safety.

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E & OE*

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CONVERTA *The system and its components.*



The CONVERTA system and its components are a modular system. The system consists of wheely boxes with drawers or up-and-over doors, magazines with integrated carrying handles, magazine drawers and magazines and a set of wheels, and detachable spray-can holders. Thanks to the possibility of combining the many modules available, there are almost no limits to the

options open to the user in optimising his or her individual tool-storage environment.

All the magazines are positioned on flat magazine drawers which can be locked in place when extended. The tool magazines and standard drawers are interchangeable. A safety mechanism prevents more

than one drawer being opened at any one time. All the boxes can be fitted with a cylinder lock to enable central locking – on request, a master key locking system is available. The boxes can still be locked even if one or more magazines or drawers have been removed.

All painted parts have an environmentally friendly powdercoat. The worktops of the cases are fitted with an oil and skydrol resistant plastic mat with compartments for small components.



CONVERTA

The modular components system in the aerospace industry (maintenance), in industry, the trades and all service work in the field for maintenance and assembly jobs

- Fully mobile for use anywhere.
- Multitalented – numerous combination options.
- Wheel it – or carry it.
- Interchangeable drawers and a range of magazines.
- Magazines are placed on flat drawers and can be opened easily when the drawer is pulled out. The undersides are coated with non-slip, skydrol and oil resistant rubber.
- The magazine drawers can easily be exchanged for normal drawers (as with the Tool Trolleys and Tool Boxes in the full range, with the exception of No 93).
- Topple-proof because only one drawer can be opened at any one time.
- Drawers designed to match the STAHLWILLE inlay system.
- Can be completely locked with cylinder lock (central locking), also available on request with master key locking system for several Tool Boxes and Trolleys.
- Hanging option for spray-can holders.
- Tough worktop made of plastic, oil and skydrol resistant with compartments for screws, nuts etc.
- Can be combined with Tool Trolley No 93 and No 97.
- All painted parts have an environmentally friendly powdercoat.



920 + R920

920 + 921

920 + 922



920 + 93R



920 + 97/7R

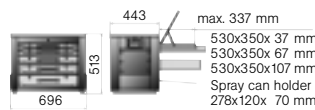
920 Magazine case

with 5 drawers and 5 magazines. **Converts to tool trolley with undercarriage No R 920.**

Features two removable spray can holders on the end pieces of the case and two integrated lifting handles.

Drawers for mounting magazines are removable and lockable in fully extended position.

Magazines (2 each 530 x 350 x 38 mm, 530 x 350 x 68 mm and one 530 x 350 x 108 mm) can be replaced by standard drawers if required. The worktop of the case is fitted with an oil and skydrol resistant plastic mat with compartments for small components.

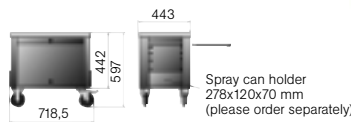


Code	Colour	Can be combined with No	△ kg
81480000	red RAL 3020	920; 921; 922; 93R; 94R; 94/6R; 97/6KM R; 97/6M. R; 97/7R; 97/8R; 98R	46

921 Wheely box with up-and-over door

With 4 wheels Ø 125 mm (two pivoting casters, one wheel with parking brake).

Silver coloured front door pivots open and slides inside, out of the way. Large storage space inside without drawers. The worktop of the case is fitted with an oil and skydrol resistant plastic mat with compartments for small components. Spray can holders No SDH 921 can be retrofitted to the sides (please order separately).



Code	Colour	Can be combined with No	△ kg
81480001	red RAL 3020	94R; 94/6R; 920	20

922 Wheely box with drawers

With 4 wheels \varnothing 125 mm (two pivoting castors, one wheel with parking brake). With 5 silver-coloured drawers (sizes: 3 drawers 50 mm high, 1 x 80 mm, 1 x 100 mm).

Drawers are removable and lockable in fully extended position and can be replaced by magazine drawers with magazines (except the 100 mm high drawer).

The worktop of the case is fitted with an oil and skydrol resistant plastic mat with compartments for small components.

Spray can holders No SDH 921 can be retrofitted to the sides (please order separately).



Code	Colour	Can be combined with No	\varnothing kg
96480001	red RAL 3020	920; 94R; 94/6R	37.4

924* Magazine stopper

registered design, with suction cup. Holds tool magazines and other containers, e.g. sets of Allen keys, in place on inclined surfaces e.g. aeroplane wings.



Code	\varnothing kg
80480000	0.16
* to be discontinued	

Accessories CONVERTA

920C-SCH Magazine drawer

Coated with environmentally friendly silver-coloured textured powder-coat.

For mounting tool magazines
No 920 C.



Code	\varnothing kg
81481000	1.85

920C Tool magazines

Coated with environmentally friendly silver-coloured textured powder-coat.

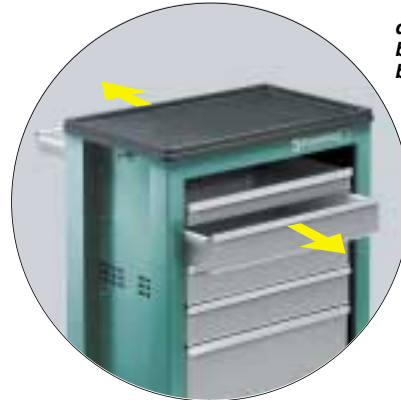
For use with magazine drawers
No 920 C-SCH.



Code	No	Dimensions mm	Can be combined with No	\varnothing kg
81481050	920 C 50	530 x 350 x 38	920; 922; 94; 97/6KM; 97/6M.; 97/7; 97/8	2.9
81481080	920 C 80	530 x 350 x 68	920; 922; 92GL; 94; 94/6; 97/6KM; 97/6M.; 97/7; 97/8	3.3
81481120	920 C 120	530 x 350 x 108	920; 92GL; 97/6KM; 97/6M.; 97/8	3.7

Organisation at your fingertips – the professional's choice.

Practically orientated, roomy Tool Trolleys and Tool Boxes for industry, workshops and petrol stations. Equipped with a whole range of innovative details and impressive safety features.



drawers can be opened from both sides



Can be fitted with additional tray No 913/2 ① and multifunctional back panel No 913/3 ②



Tool Trolley No 98



Tool Trolley No 97/8

Tool Trolley No 97/6KM

Technically innovative details.



convenient – paper-roll holder



stable – smooth-running, large-sized wheels with a parking brake



oil and skydrol resistant worktops with additional compartments for small components



space-saving – integrated handles on the sides of the Tool Trolley

Quality at its best.

Many innovative details coupled with a sturdy construction make STAHLWILLE Tool Trolleys and Tool Boxes reliable, long-lasting partners in the rough and tumble of daily life in a garage or workshop – well chosen!

Tool trolleys, tool boxes, workbenches and accessories

93 Mechanics tool trolleys

Both sides with louvre, central locking, 4 ball-bearing mounted drawers, opening to both sides, with stop. Handles integrated in side walls, removable holder for spray cans or similar. Can be enhanced with STAHLWILLE standard and TCS inlays (see pp. 32-50). May be combined with tool box No 94, No 94/6.



Code	No	Colour	kg
81410011	93G	green	39
81410016	93R	red, RAL 3020	39
81410013	93B	blue, RAL 2703035	39

98 Mechanics tool trolleys

with 6 drawers on square rails, can be opened from both sides. Recessed worktop with rubber mat and impact protection made of plastic. Handles integrated in side walls. Side wall space can be individually optimised using the square-hole perforations and hooks No 8031-8041. Central locking. Double-bearing wheels, oil and acid-resistant. Parking brake. Can be combined with Tool Box No 94, No 94/6.



Code	No	Colour	kg
81170000	98G	green	50.5
81170002	98R	red, RAL 3020	50.5
81170001	98B	blue, RAL 2703035	50.5

97/6M. Tool trolleys

Pivoting castors, brake, 6 fully extendible, removable drawers, holder for spray cans and paper rolls. Can be enhanced with STAHLWILLE standard and TCS inlays (see pp. 32-50).

Divided work area.

Centrally locked by cylinder lock.

May be combined with tool box No 94, No 94/6.



Code	No	Colour	kg
81150020	97/6M. G	green	49.3
81150021	97/6M. R	red, RAL 3020	49.3

97/6KM Tool trolleys

With solid multi-purpose worktop No 913/1, plastic handles on the drawers and impact protection strips on the vertical edges, with double-bearing, oil and acid-resistant wheels, parking brake and 6 removable fully extendible drawers, holders for paper rolls and spray cans. Can be enhanced with STAHLWILLE standard and TCS inlays (see pp. 32-50). Side wall space can be individually optimised using the square-hole perforations and hooks No 8031-8041. Central locking with a cylinder lock.

Can be combined with Tool Box No 94, No 94/6. Can also be enhanced using additional tray No 913/2 and multifunctional back panel No 913/3 (please order separately).



Code	No	Colour	kg
81150022	97/6KM G	green	48.5
81150024	97/6KM R	red, RAL 3020	48.5
81150023	97/6KM B	blue, RAL 2703035	48.5

97/7 Tool trolleys

Pivoting castors, brake and 7 fully extendible, removable drawers. Can be enhanced with STAHLWILLE standard and TCS inlays (see pp. 32-50).

Side space can be individually arranged using square slot-in system for hooks No 8031-8041.

Holders for spray cans and paper rolls. Divided work area.

Centrally locked by cylinder lock. May be combined with tool box No 94, No 94/6.



Code	No	Colour	kg
81 150000	97/7G	green	50
81 150011	97/7R	red, RAL 3020	50
81 150013	97/7B	blue, RAL 2703035	50

97/8 Tool trolleys

with smooth-running plastic castors, locking brake and 8 removable, fully extendible drawers.

Can be enhanced with STAHLWILLE standard and TCS inlays (see pp. 32-50).

Side space can be individually arranged using square slot-in systems for hooks No 8031-8041. Holders for spray cans and paper rolls. Divided work area. Centrally locked by cylinder lock. May be combined with tool boxes No 94, No 94/6.



Code	No	Colour	kg
81 150030	97/8G	green	55
81 150031	97/8R	red, RAL 3020	55
81 150032	97/8B	blue, RAL 270 30 35	55

94 Tool boxes

with 5 fully extendible, removable drawers. Handles integrated in side walls. Can be enhanced with STAHLWILLE standard and TCS inlays (see pp. 32-50).

Central locking with a cylinder lock. Can also be mounted on tool trolleys No 93, No 97/6KM, No 97/6M., No 97/7, No 97/8, No 98, Wheely box No 921, No 922.



Code	No	Colour	kg
81 430011	94G	green	32.5
81 430012	94R	red, RAL 3020	32.5
81 430013	94B	blue, RAL 270 30 35	32.5

94/6 Tool boxes

with 5 removable drawers and one lockup compartment.

Handles integrated in side walls. Can be enhanced with STAHLWILLE standard and TCS inlays (see pp. 32-50). Central locking with a cylinder lock. Can also be mounted on tool trolleys No 93, No 97/6KM, No 97/6M., No 97/7, No 97/8, No 98, Wheely box No 921, No 922.



Code	No	Colour	kg
81 430014	94/6G	green	32.5
81 430015	94/6R	red, RAL 3020	32.5
81 430016	94/6B	blue, RAL 270 30 35	32.5

92GL Mobile workbench

With 4 smooth-running plastic wheels, of which 2 are swivelling and have parking brakes; 6 fully extendible removable drawers, holders for paper rolls and spray cans, 30 mm multiplex beechwood worktop.

Roomy storage area with a shelf in the cabinet, drawers and access door to storage area, each individually lockable with cylinder locks, with a single key. The outer sides and the inside of the storage area access door can be individually adapted to suit requirements using perforated sheets with square holes for hooks No 8031-8041. Can be enhanced with STAHLWILLE standard and TCS inlays (see pp. 32-50).



Code	kg
8501 00 12	73

96/3 Mobile workbench

with chassis and retractable tool panel. Five ball-bearing mounted steel drawers with slotted liners for partitioning drawers. Aluminium handle. Automatic catches on all drawers prevent them opening in transit. Lockup cabinet with height-adjustable shelf. Patented worktop is 50 mm thick, warp- and water resistant, multilayer bonded beech wood with clear varnish finish. Front edge has hardwood edging strip.



Code	kg
85030003	160

96 Workbench

Basic model without chassis and retractable rear wall.

Code	kg
85030000	122

96/1 Mobile workbench

with chassis, without retractable rear wall.

Code	kg
85030001	137

96/2 Workbench

with retractable rear wall, without chassis.

Code	kg
85030002	144

Drawers

Coated with environmentally friendly silver-coloured textured powder-coat.



Code	No	Dimensions mm	Can be combined with No	kg
81482050	SCH 50	530 x 350 x 50	94; 97/7; 920; 922	2.5
81482080	SCH 80	530 x 350 x 80	92GL; 94; 94/6; 97/6M.; 97/7; 97/8; 920; 922	2.8
81482100	SCH 100	530 x 350 x 100	92GL; 94; 94/6; 97/6M.; 97/7; 97/8; 922	3.1
81482120	SCH 120	530 x 350 x 120	92GL; 97/6M.; 97/8	3.2

VE 50-150 Drawer separators

allow you to divide up the drawer the way you need it. Consisting of: one each galvanised steel front and back piece and three separators. Separator height = 40 mm.



Code	for No	kg
81484001	92GL; 93; 94; 94/6; 97/6KM; 97/6M.; 97/7; 97/8; 920; 922	0.7

912 Empty tray for small components

with compartments for small parts such as screws, nuts etc. Oil and Skydrol resistant. 8 compartments each 60 x 80 mm or 80 x 80 mm, 2 compartments each 100 x 165 mm or 50 x 330 mm.



Code	for No	mm	g
83812070	92GL; 93; 94; 94/6; 97/6KM; 97/6M.; 97/7; 97/8; 920; 922	520 x 340 x 30	330

913 Cover

Oil and skydrol resistant.



Code	for No	mm	g
89010011	93; 94; 94/6; 97/6KM; 97/6M.; 97/7; 97/8; 920; 921; 922	705 x 450 x 20	936

913/1 Multi-purpose worktop

Particularly sturdy construction with robust, two-part handle-bar. Large worktop and 11 holes for storing e.g. screwdrivers, files, scrapers etc. additional compartments for small components and 2 round recesses for cans. 4 additional holes for mounting the multifunctional back panel No 913/3. Oil and Skydrol resistant.



Code	for No	mm	kg
89010022	93; 94; 94/6; 97/6KM; 97/6M.; 97/7; 97/8; 920; 921; 922	780 x 540 x 35	3.1

913/2 Additional tray

Slots into and extends the multipurpose worktop No 913/1. Oil and Skydrol resistant.



Code	for No	mm	kg
89010023	93; 97/6KM; 97/6M.; 97/7; 97/8; 920; 921; 922	443 x 540 x 35	2.2

913/3 Multifunctional back panel

Perforated panel for attaching to multipurpose worktop No 913/1, for mounting drawings & dockets using magnets or for hanging tools with hook sets No 8031 to 8041. Consisting of: 2 uprights for inserting in the base and perforated panel, silver paint finish.



Code	mm	ΔΔ kg
89010024	570 x 365 x 40	3.7

R 920 Set of wheels

Set consists of two fixed wheels and two pivoting, 125 mm Ø. One wheel with locking brake.



Code	for No	ΔΔ kg
89480001	93; 94; 94/6; 97/6KM; 97/6M.; 97/7; 98; 920; 921; 922	4.9

AB97 Rubbish bin for attaching to tool trolleys

Capacity approx. 9 l. All painted parts have an environmentally friendly silver finish powder coat.



Code	for No	mm	ΔΔ kg
89010010	92GL; 93; 97/6KM; 97/6M.; 97/7; 97/8; 98	278 x 300 x 140	1.6

SDH 921 Spray can holders

One pair, coated with environmentally friendly silver-coloured textured powder-coat, with holder for paper rolls.



Code	for No	ΔΔ kg
81483001	92GL; 93; 94; 94/6; 97/6KM; 97/6M.; 97/7; 97/8; 98; 920; 921; 922	1

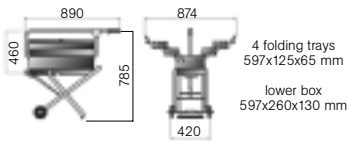
What accessories are available for each Tool Trolley, Tool Box and Mobile Workbench?

Accessories	No 93	No 98	No 97/6 M.	No 97/6 KM	No 97/7	No 97/8	No 94	No 94/6	No 920	No 921	No 922	No 92GL
Drawers												
SCH 50					•		•		•		•	
SCH 80			•		•	•	•	•	•		•	•
SCH 100			•		•	•	•	•	•		•	•
SCH 120			•			•						•
VE 50-150	•		•	•	•	•	•	•	•		•	•
Magazine drawer												
920C-SCH			•	•	•	•	•	•	•		•	•
Tool magazines												
920 C 50			•	•	•	•	•	•	•		•	•
920 C 80			•	•	•	•	•	•	•		•	•
920 C 120			•	•	•	•	•	•	•		•	•
Magazine stopper 924			•	•	•	•	•	•	•		•	•
Empty tray for small components 912	•		•	•	•	•	•	•	•		•	•
Worktops												
913	•		•	•	•	•	•	•	•	•	•	•
913/1	•		•	•	•	•	•	•	•	•	•	•
Multifunctional back panel												
913/3 (only in conjunction with 913/1)	•		•	•	•	•	•	•	•	•	•	•
Additional tray 913/2	•		•	•	•	•	•	•	•	•	•	•
Set of wheels R 920	•	•	•	•	•	•	•	•	•	•	•	•
Rubbish bin AB 97	•	•	•	•	•	•						•
Spray can holders SDH 921	•	•	•	•	•	•	•	•	•	•	•	•

Tool boxes

90 LIFTBOX

with retractable undercarriage. Solid sheet metal-tubular construction. Large rubber tyred wheels for easy movement. Tools are available at working height. When undercarriage is retracted, Liftbox will fit in any luggage compartment. Lockable by padlock.



Code	⚖️ kg
81 140000	21

83/010 Tool box, 3 trays

lockable by padlock.



Code	W mm	H mm	D mm	⚖️ kg
81060000	420	150	200	3.66

W = Width, H = Height, D = Depth

83/09 Tool box, 5 trays

lockable by padlock.



Code	W mm	H mm	D mm	⚖️ kg
81050000	420	200	200	5.2

W = Width, H = Height, D = Depth

446/08 Tool box, 5 trays

lockable by padlock.



Code	W mm	H mm	D mm	⚖️ kg
81070000	530	200	200	5.64

W = Width, H = Height, D = Depth

82/013 Tool box

with lift out tray.
Lockable by padlock.



Code	W mm	H mm	D mm	⚖️ kg
81080000	545	225	180	6.9

W = Width, H = Height, D = Depth

84/07 Tool box

with 2 lift out trays,
fitted safety lock.



Code	W mm	H mm	D mm	⚖️ kg
81110003	610	310	310	16.3

W = Width, H = Height, D = Depth

13216/2 Tool box

with 2 drawers and a safety lock. The perforated panel in the lid can be arranged as required using spring loaded clips No 8050 (page 21, please order separately).



Code	W mm	H mm	D mm	Δ kg
81090002	510	270	230	9.5

W = Width, H = Height, D = Depth

13216/3 Tool box

with 3 drawers and a safety lock. The perforated panel in the lid can be arranged as required using spring loaded clips No 8050 (page 21, please order separately).



Code	W mm	H mm	D mm	Δ kg
81090003	510	365	230	12

W = Width, H = Height, D = Depth

13216/4 Tool box

with 4 drawers; lockable with padlock. The perforated panel in the lid can be arranged as required using spring loaded clips No 8050 (page 21, please order separately).



Code	W mm	H mm	D mm	Δ kg
81090004	510	415	230	15

W = Width, H = Height, D = Depth

GRIPMAT

- Stops tools slipping
- Stops tools rattling
- Increases safety

910 Non-slip mat GRIPMAT

protects the tools, prevents them sliding and rattling. One roll will normally be sufficient for a tool trolley with up to seven drawers.



Code	L mm	W mm	Δ g
89010003	3800	370	930

L = Length, W = Width

Perforated panels, hooks and holding devices
8002 Perforated panel

Perforation 9 x 9 mm, made of sturdy, 1 mm thick sheet steel, with 2 strengthening ribs at rear. These ribs carry the holes for wall mounting panel. For the individual mounting of tools, on a variety of hooks and clips No 8031-8041.



Code	W mm	H mm	D mm	Δ kg
80020001	500	1000	15	4

8144/7 Workshop cabinet, empty

with perforated panels for rear and side walls, complete with shelves. There is a spacious drawer on telescopic rails below the shelves. For Tool sets 801NH, 802NH, 803NH, 811NH.



Code	W mm	H mm	D mm	Δ kg
81440007	655	800	270	22

8144 Workshop cabinet with hooks

with perforated panels for rear and side walls, complete with shelves. There is a spacious drawer on telescopic rails below the shelves. The cabinet contains a range of hooks:

12 pieces No 8031 size 1, 3 pieces No 8031 size 2, 1 piece No 8032 size 1, 3 pieces No 8034 size 1, 7 pieces No 8035 size 1, 3 pieces No 8036 size 1, 5 pieces No 8036 size 2, 12 pieces No 8036 size 3, 5 pieces No 8038, 1 piece No 8041

Code	W mm	H mm	D mm	△△ kg
96814407	655	800	270	23

8031 Single hook

for perforated panel No 8002, Workshop cabinet No 8144 and Tool Trolleys No 97/6KM., No 97/7, No 97/8, No 98.



Code	size	mm	△△ g	△ g	△ g
80310030	1	30	13	5	5
80310060	2	60	17	5	5
80310090	3	90	21	5	5

8032 Twin hook

for perforated panel No 8002, Workshop cabinet No 8144 and Tool Trolleys No 97/6KM., No 97/7, No 97/8, No 98.



Code	size	mm	△△ g	△ g	△ g
80320030	1	30	19	3	3
80320060	2	60	26	3	3

8034 Twin hook

for perforated panel No 8002, Workshop cabinet No 8144 and Tool Trolleys No 97/6KM., No 97/7, No 97/8, No 98.



Code	size	mm	△△ g	△ g	△ g
80340040	1	40 x 35	30	3	3
80340050	2	50 x 40	30	3	3

8035 Square lug

for perforated panel No 8002, Workshop cabinet No 8144 and Tool Trolleys No 97/6KM., No 97/7, No 97/8, No 98.



Code	size	mm	△△ g	△ g	△ g
80350017	1	17 x 35	23	3	3
80350020	2	20 x 55	26	3	3

8036 Spring clip

for perforated panel No 8002, Workshop cabinet No 8144 and Tool Trolleys No 97/6KM., No 97/7, No 97/8, No 98.



Code	size	mm	△△ g	△ g	△ g
80360012	1	12	9	6	6
80360018	2	18	10	6	6
80360024	3	24	14	6	6

8038 Container

for perforated panel No 8002, Workshop cabinet No 8144 and Tool Trolleys No 97/6KM., No 97/7, No 97/8, No 98.



Code	mm	△△ g	△ g	△ g
80380030	30 x 72	15	4	4

8041 Holding device for spanner

for perforated panel No 8002, Workshop cabinet No 8144 and Tool Trolleys No 97/6KM., No 97/7, No 97/8, No 98.



Code	mm	△△ g	△ g	△ g
80410235	235 x 144 x 47	62	1	1

8050 Spring clip

for perforated panel No 8002, Workshop cabinet No 8144 and Tool Trolleys No 97/6KM., No 97/7, No 97/8, No 98 and Tool Boxes No 13216/2, No 13216/3, 13216/4.



Code	size	mm	Δ	g	kg
81485006	6	6	28	1	
81485012	12	12	35	1	

Tool cases, hard shell

13209/1 Tool case, hard shell, base model

sturdy aluminium frame, 2 locks, ergonomically shaped carrying handle, robust jointed lid-prop, tool-holder panel for storing tools from both sides, with 21 pockets and integrated document pouch. ABS insert can be subdivided and includes cover with 6 pockets.



Code	W mm	H mm	D mm	Δ kg
81620002	460	310	160	4.1

W = Width, H = Height, D = Depth

13209/2 Tool case, hard shell, medium model

as for No 13209/1, but with an additional combination lock, tool-holder panel with 13 pockets and 26 rubber-loop holders, separate document pouch in the lid, ABS inlay tray with 13 pockets and 8 rubber-loop holders.



Code	W mm	H mm	D mm	Δ kg
81620003	460	310	180	4.5

W = Width, H = Height, D = Depth

13209 Tool case, hard shell, premium model

as for No 13209/1, but with an additional combination lock, tool-holder panel with 13 pockets and 26 rubber-loop holders, additional tool-holder panel with 11 pockets and a smaller components pouch, separate document pouch in the lid, ABS inlay tray with 13 pockets and 8 rubber-loop holders.































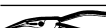






Code	W mm	H mm	D mm	Δ kg
81620001	460	310	180	6





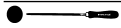







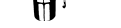
W = Width, H = Height, D = Depth

Workshop sets

801N Large tool set


126 Tools

Code		 kg
9784 12 10		28.6
 No 10/12	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 25 x 28; 30 x 32 mm	
 No 12/10Pc	sizes 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11 mm	
 No 20/12	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 25 x 28; 30 x 32 mm	
 No 29	sizes 10 x 11; 12 x 13; 14 x 15; 16 x 18; 17 x 19; 21 x 23 mm	
 No 30c cars	sizes 17; 19; 20.8; 22 mm	
 No 39	400 mm (2x)	
 No 39/1	600 mm (2x)	
 No 50	1/2" \bigcirc sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 30; 32 mm	
 No 51	1/2" \bigcirc sizes 13; 16 mm- ⁵ / ₈ "; 17; 18; 19 mm; 20.8 mm- ¹³ / ₁₆ "; 22; 24; 27; 30; 32 mm	
 No 54	1/2" \bigcirc sizes 4; 5; 6; 8; 10; 12; 14 mm	
 No 501	1/2" \blacksquare 433 mm	
 No 504/15	1/2" \blacksquare 397 mm	
 No 506	1/2" \blacksquare 300 mm	
 No 509/2	1/2" \blacksquare \bigcirc 52 mm	
 No 509/5	1/2" \blacksquare \bigcirc 130 mm	
 No 509/10	1/2" \blacksquare \bigcirc 255 mm	
 No 510	1/2" \blacksquare \bigcirc 71 mm	
 No 512	1/2" \blacksquare	
 No 100/8	200 mm	
 No 104	120 x 4 mm	
 No 105	100 x 10 mm	
 No 4722	size 2 (1.2 x 6.5 x 125 mm); size 3 (1.2 x 8 x 150 mm); size 5 (2 x 12 x 200 mm)	
 No 4724	size 2 (1.0 x 5.5 x 25 mm)	
 No 4729	size 2 (0.6 x 3.5 x 75 mm); size 4 (0.8 x 4 x 125 mm)	
 No 4730	sizes 1; 2; 3	
 No 65 01 4 180		
 No 65 29 4 200		
 No 65 30 4 200		
 No 65 43 4 002		
 No 65 45 4 002		
 No 65 54 4 250		
 No 65 64 2 250		
 No 66 02 4 160		
 No 10670	300 mm	

 No 10676	85 x 12 x 305 mm
 No 10960	500 g
 No 11095/13	0.05–1 mm
 No 12025	200 mm
 No 12030	250 mm
 No 12035	200 mm
 No 12050	300 mm
 No 12150	200 mm
 No 12200	145 mm
 No 12250	
 No 12320	
 No 12375	
 No 12931	3 m












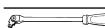





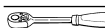

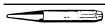

801NH Large tool set No 801N with hooks

fits Workshop cabinet No 8144/7, p. 19

Code	 kg
9784 12 11	34.7

802N Large tool set

128 Tools

Code		 kg
9784 03 12		28.1
 No 12/10Pc	sizes 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11 mm	
 No 13/26	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 29; 30; 32 mm	
 No 29	sizes 10 x 11; 12 x 13; 14 x 15; 16 x 18; 17 x 19; 21 x 23 mm	
 No 30c cars	sizes 17; 19; 20.8; 22 mm	
 No 39	400 mm (2x)	
 No 39/1	600 mm (2x)	
 No 50	1/2" \bigcirc sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 30; 32 mm	
 No 51	1/2" \bigcirc sizes 13; 16 mm- ⁵ / ₈ "; 17; 18; 19 mm; 20.8 mm- ¹³ / ₁₆ "; 22; 24; 27; 30; 32 mm	
 No 54	1/2" \bigcirc sizes 4; 5; 6; 8; 10; 12; 14 mm	
 No 501	1/2" \blacksquare 433 mm	
 No 504/15	1/2" \blacksquare 397 mm	
 No 506	1/2" \blacksquare 300 mm	
 No 509/2	1/2" \blacksquare \bigcirc 52 mm	
 No 509/5	1/2" \blacksquare \bigcirc 130 mm	
 No 509/10	1/2" \blacksquare \bigcirc 255 mm	
 No 510	1/2" \blacksquare \bigcirc 71 mm	
 No 512	1/2" \blacksquare	
 No 100/8	200 mm	
 No 104	120 x 4 mm	
 No 105	100 x 10 mm	

	No 4722	size 2 (1.2 x 6.5 x 125 mm); size 3 (1.2 x 8 x 150 mm); size 5 (2 x 12 x 200 mm)
	No 4724	size 2 (1.0 x 5.5 x 25 mm)
	No 4729	size 2 (0.6 x 3.5 x 75 mm); size 4 (0.8 x 4 x 125 mm)
	No 4730	sizes 1; 2; 3
	No 65 01 4 180	
	No 65 29 4 200	
	No 65 30 4 200	
	No 65 43 4 002	
	No 65 45 4 002	
	No 65 54 4 250	
	No 65 64 2 250	
	No 66 02 4 160	
	No 10670	300 mm
	No 10676	85 x 12 x 305 mm
	No 10960	500 g
	No 11095/13	0.05–1 mm
	No 12025	200 mm
	No 12030	250 mm
	No 12035	200 mm
	No 12050	300 mm
	No 12150	200 mm
	No 12200	145 mm
	No 12250	
	No 12320	
	No 12375	
	No 12931	3 m

	No 12a/13Pc	sizes $\frac{5}{32}$; $\frac{3}{16}$; $\frac{13}{64}$; $\frac{7}{32}$; $\frac{15}{64}$; $\frac{1}{4}$; $\frac{9}{32}$; $\frac{5}{16}$; $\frac{11}{32}$; $\frac{3}{8}$; $\frac{7}{16}$; $\frac{1}{2}$; $\frac{9}{16}$ "
	No 13	sizes 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm
	No 13a	sizes $\frac{3}{8}$; $\frac{7}{16}$; $\frac{1}{2}$; $\frac{9}{16}$; $\frac{5}{8}$; $\frac{11}{16}$; $\frac{3}{4}$ "
	No 21	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 17 x 19 mm
	No 20a	sizes $\frac{1}{4}$ x $\frac{5}{16}$; $\frac{3}{8}$ x $\frac{7}{16}$; $\frac{1}{2}$ x $\frac{9}{16}$; $\frac{3}{4}$ x $\frac{7}{8}$; $\frac{15}{16}$ x 1"
	No 23/8	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22 mm
	No 23a	sizes $\frac{3}{8}$ x $\frac{7}{16}$; $\frac{1}{2}$ x $\frac{9}{16}$; $\frac{5}{8}$ x $\frac{11}{16}$; $\frac{3}{4}$ x $\frac{7}{8}$; $\frac{15}{16}$ x 1"
	No 36 cars	sizes 17; 19; 20.8; 22 mm
	No 50	$\frac{1}{2}$ " \bigcirc sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 27; 30; 32 mm
	No 50a	$\frac{1}{2}$ " \bigcirc sizes $\frac{3}{8}$; $\frac{7}{16}$; $\frac{1}{2}$; $\frac{9}{16}$; $\frac{5}{8}$; $\frac{11}{16}$; $\frac{3}{4}$; $\frac{13}{16}$; $\frac{7}{8}$; $\frac{15}{16}$; 1; 1 $\frac{1}{16}$; 1 $\frac{1}{8}$; 1 $\frac{3}{16}$; 1 $\frac{1}{4}$ "
	No 501	$\frac{1}{2}$ " \blacksquare 433 mm
	No 504/15	$\frac{1}{2}$ " \blacksquare 397 mm
	No 506	$\frac{1}{2}$ " \blacksquare 300 mm
	No 509/2	$\frac{1}{2}$ " \bigcirc 52 mm
	No 509/5	$\frac{1}{2}$ " \bigcirc 130 mm
	No 509/10	$\frac{1}{2}$ " \bigcirc 255 mm
	No 510	$\frac{1}{2}$ " \bigcirc 71 mm
	No 512	$\frac{1}{2}$ " \blacksquare
	No 100	150 mm
	No 105	120 x 12 mm
	No 108	150 x 4; 150 x 6 mm
	No 4720	size 3 (1 x 5.5 x 100 mm); size 5 (1.2 x 6.5 x 150 mm); size 6 (1.6 x 8 x 175 mm); size 7 (1.6 x 10 x 200 mm)
	No 4724	size 2 (1.0 x 5.5 x 25 mm)
	No 4729	size 2 (0.6 x 3.5 x 75 mm)
	No 4730	sizes 1; 2; 3
	No 65 01 4 200	
	No 65 09 5 140	
	No 65 51 6 240	
	No 66 02 4 160	
	No 10760CV/9	1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm
	No 10760aCV/10	$\frac{1}{16}$; $\frac{5}{64}$; $\frac{3}{32}$; $\frac{1}{8}$; $\frac{5}{32}$; $\frac{3}{16}$; $\frac{7}{32}$; $\frac{1}{4}$; $\frac{5}{16}$; $\frac{3}{8}$ "
	No 10970	1 lb.
	No 12050	300 mm

802NH Large tool set No 802N with hooks

fits Workshop cabinet No 8144/7, p. 19

Code	δ ∇
97 84 03 13	kg 30

803N Large tool set

161 Tools

Code	δ ∇
97 84 26 13	kg 21.1

	No 10/12	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 25 x 28; 30 x 32 mm
	No 10a	sizes $\frac{1}{4}$ x $\frac{5}{16}$; $\frac{3}{8}$ x $\frac{7}{16}$; $\frac{1}{2}$ x $\frac{9}{16}$; $\frac{5}{8}$ x $\frac{11}{16}$; $\frac{3}{4}$ x $\frac{7}{8}$; $\frac{15}{16}$ x 1"
	No 12/10Pc	sizes 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11 mm








































803NH Large tool set No 803N with hooks

fits Workshop cabinet No 8144/7, p. 19

Code	δ ∇
97 84 26 14	kg 24.2
















































804N Large tool set

104 Tools

Code		 kg
97842714		11.8
 No 12/10Pc	sizes 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11 mm	
 No 13	sizes 6; 7; 8; 9; 10; 11; 12; 13; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm	
 No 40/13/6	1/4"  No 40 sizes 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm; 400; 404; 405/2; 405/6; 407; 415	
 No 50	1/2"  sizes 10; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm	
 No 51	1/2"  sizes 16 mm-5/8"; 20.8 mm-13/16"	
 No 506	1/2"  300 mm	
 No 509/5	1/2"   130 mm	
 No 509/10	1/2"   255 mm	
 No 510	1/2"   71 mm	
 No 512	1/2" 	
 No 100/8	200 mm	
 No 105-8/6 K	No 105/120 x 10 mm; No 108/150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6 mm	
 No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm); size 4 (1 x 5.5 x 125 mm); size 5 (1.2 x 6.5 x 150 mm); size 6 (1.6 x 8 x 175 mm)	
 No 4728	size 1 (0.4 x 2.5 x 50 mm)	
 No 4730	size 1; size 2	
 No 65 01 4 180		
 No 65 29 4 200		
 No 65 51 6 240		
 No 65 64 2 250		
 No 66 02 4 160		
 No 10760CV/9	1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm	
 No 10955	35 mm \varnothing	
 No 10960	500 g	
 No 11095/20	0.05-1 mm	
 No 12251		
 No 12321		
 No 12375		


811N Car tool set

83 Tools

Code		 kg
97841311		15.3
 No 10/12	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 25 x 28; 30 x 32 mm	
 No 20/12	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 25 x 28; 30 x 32 mm	
 No 39	400 mm (2x)	
 No 50	1/2"  sizes 10; 11; 12; 13; 14; 15; 16; 17; 19; 21; 22; 23; 24; 26; 27; 30; 32 mm	
 No 51	1/2"  sizes 16 mm-5/8"; 20.8 mm-13/16"	
 No 54	1/2"  sizes 4; 5; 6; 8; 10; 12; 14 mm	
 No 504/15	1/2"  397 mm	
 No 506	1/2"  300 mm	
 No 509/2	1/2"   52 mm	
 No 509/5	1/2"   130 mm	
 No 509/10	1/2"   255 mm	
 No 510	1/2"   71 mm	
 No 512	1/2" 	
 No 100/8	200 mm	
 No 104	120 x 4 mm	
 No 105	100 x 10 mm	
 No 4722	size 2 (1.2 x 6.5 x 125 mm); size 3 (1.2 x 8 x 150 mm); size 5 (2 x 12 x 200 mm)	
 No 4724	size 2 (1.0 x 5.5 x 25 mm)	
 No 4729	size 2 (0.6 x 3.5 x 75 mm); size 4 (0.8 x 4 x 125 mm)	
 No 4730	sizes 1; 2; 3	
 No 65 01 4 180		
 No 65 29 4 200		
 No 65 30 4 200		
 No 65 43 4 002		
 No 65 45 4 002		
 No 65 54 4 250		
 No 65 64 2 250		
 No 66 02 4 160		
 No 10670	300 mm	
 No 10676	85 x 12 x 305 mm	
 No 10960	500 g	
 No 12375		

811NH Large tool set No 811N with hooks

fits Workshop cabinet No 8144/7, p. 19

Code	 kg
97841312	17.7

3027 Electrician tool set

78 Tools

Code		⚖ kg
97843101		6.3
No 13	sizes 6; 7 mm	
No 13/9	sizes 9; 10; 11; 12; 13; 14; 17; 19; 22 mm	
No 40/23/6N	1/4" \bigcirc No 40 sizes 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm No 41K sizes 0.6 x 3.5; 1 x 5.5; 1.2 x 8 mm No 44K: 3; 4; 5; 6; 8 mm No 44P: sizes 1; 2; 3; 4 No 400; 404; 405/2; 405/6; 407; 415	
No 46	3/8" \bigcirc sizes 12; 20.8 mm	
No 4600	3/8" \bigcirc size 16 mm	
No 425	3/8" \blacksquare 165 mm	
No 428	3/8" \blacksquare \bigcirc 46 mm	
No 427/6	3/8" \blacksquare \bigcirc 160 mm	
No 4724	size 2	
No 4728	size 2 (0.6 x 3.5 x 75 mm); size 4 (0.8 x 4 x 125); size 6 (1 x 5.5 x 200)	
No 4730	size 1; size 2	
No 4734	size 2	
No 10546	size 3	
No 10551	size 1 + 2	
No 10760CV/9	sizes 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm	
No 7756	3-48 Volt	
No 65 01 5 180		
No 65 29 5 160		
No 65 30 5 160		
No 65 51 6 240		
No 66 02 4 140		
No 66 22 5 160		
No 10641		
No 10956	\varnothing 35 mm	
No 1551	for contact sizing \square 2.8 mm	
No 1552	for contact sizing \square 5.8 mm	
No 1560	Content: 1 Piece No 1501 ejection tool for contact sizing \varnothing 1.5 mm 1 Piece No 1502 ejection tool for contact sizing \varnothing 3.5 mm 1 Piece No 1503 ejection tool for contact sizing \varnothing 4.0 mm ABS resp. mounting bush No 1523 2 Pieces No 1511 dismounting bush \varnothing 1.5 mm (1 Piece assembled) 2 Pieces No 1512 dismounting bush \varnothing 3.5 mm (1 Piece assembled) 2 Pieces No 1513 dismounting bush \varnothing 4.0 mm 1 Piece No 1523 mounting bush (ABS)	

841 Construction machinery set in tool box No 94G




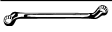
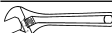

























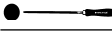
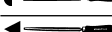



130 Tools




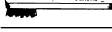





Code		⚖ kg
9784 14 14		68.4
No 10/9	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24 mm	
No 14	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32; 34; 36 mm	
No 40/13/6	1/4" \bigcirc No 40 sizes 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm; 400; 404; 405/2; 405/6; 407; 415	
No 50/17/6	1/2" \bigcirc No 45a: sizes 1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8" No 47a: sizes 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4" No 427/10; 427/6; 427/3; 428; 433/1; 435SG; 442; 443; 453	
No 504/15	1/2" \blacksquare 397 mm	
No 514	3/4" \blacksquare 1/2" \bigcirc	
No 55/9/6N	3/4" \bigcirc No 55: sizes 32; 34; 36; 38; 41; 46; 50; 55; 60 mm No 552; 554; 556; 558; 559/8; 559/16	
No 568	1/2" \blacksquare 3/4" \bigcirc	
No 102-5/6Pc	No 104/120 x 2; 120 x 4 mm No 105/120 x 10 mm No 106/125 mm; 150 mm No 107/125 mm	
No 4830	sizes 1; 2	
No 4891	\ominus 4820: 0.6 x 3.5 x 75 mm 0.8 x 4 x 100 mm 1 x 5.5 x 125 mm 1.2 x 6.5 x 150 mm \oplus 4830: size 1; 2	
No 10760CV/9	1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm	
No 65 01 5 180		
No 65 31 5 170		
No 65 63 2 250		
No 65 67 2 280		
No 65 70 6 250		
No 66 00 5 160		
No 10956	\varnothing 35 mm	
No 10960	300; 500 g	
No 11095/20	20 blades 0.05-1 mm	
No 12050	300 mm	
No 12050R	10 blades	
No 12374		
No 12600	1800 g	
No 12931	3 m	
No 94G		

842a

Construction machinery set
in tool box No 94G

131 Tools

Code		kg
97845414		69.2
 No 10a/7		sizes 1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16; 5/8 x 3/4; 1 1/16 x 13/16; 7/8 x 15/16; 1 1/8 x 1 5/16"
 No 13a/20		sizes 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8; 15/16; 1; 1 1/16; 1 1/8; 1 1/4 "
 No 20a		sizes 1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16; 5/8 x 3/4; 1 1/16 x 13/16; 7/8 x 15/16; 15/16 x 1; 1 1/8 x 1 5/16"
 No 4025		size 8
 No 50a/17/6		1/2"  No 50a: sizes 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8; 15/16; 1; 1 1/16; 1 1/8; 1 3/16; 1 1/4" No 506; 509/2; 509/5; 509/10; 510; 512
 No 504/15		1/2"  397 mm
 No 514		3/4"  1/2" 
 No 55a/10/5		3/4"  No 55a: sizes 1 1/16; 1 1/8; 1 1/4; 1 3/8; 1 7/16; 1 1/2; 1 5/8; 1 3/4; 1 13/16; 1 7/8" No 552; 556; 558; 559/8; 559/16
 No 55a		3/4"  sizes 15/16; 2; 2 3/16 "
 No 102-5/6Pc		No 104/120 x 2; 120 x 4 mm No 105/120 x 10 mm No 106/125 mm; 150 mm No 107/125 mm
 No 4892		⊖ 4820: 0.6 x 3.5 x 75 mm 0.8 x 4 x 100 mm 1 x 5.5 x 125 mm 1.2 x 6.5 x 150 mm 1.6 x 8 x 175 mm ⊕ 4830: size 1; 2; 3
 No 10760aCV/10		1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4; 5/16; 3/8"
 No 10760aCV		7/16; 1/2; 9/16; 5/8; 3/4"
 No 65 01 5 180		
 No 65 31 5 170		
 No 65 63 2 175		
 No 65 70 6 250		
 No 66 00 5 160		
 No 10956		∅ 35 mm
 No 10960		500 g
 No 10970		1/4 lb.
 No 11097/22		4-25/1000"
 No 12000 WW		
 No 12025		200 mm
 No 12030		250 mm
 No 12035		200 mm
 No 12036		250 mm
 No 12050		300 mm





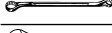






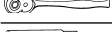

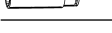












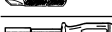
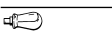




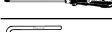


 No 12050R	10 blades
 No 12320	
 No 12374	
 No 12375	
 No 12600	1800 g
 No 12752R	
 No 12900	
 No 12931	3 m
 No 94G	











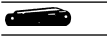









Tool sets for aerospace industry

13200a

Basic tool set for aircraft
mechanics (piston engine)






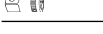

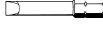


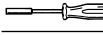











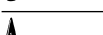
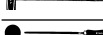
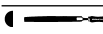

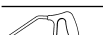


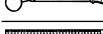




171 Tools

Code		kg
97846011		15
 No 12a/13Pc		sizes 5/32; 3/16; 13/64; 7/32; 15/64; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
 No 13a		sizes 3/16; 13/64; 7/32; 15/64; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8; 15/16; 1"
 No 23a		sizes 5/16 x 11/32; 7/16 x 1/2; 5/8 x 11/16; 3/4 x 7/8; 15/16 x 1"
 No 230a		sizes 1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16"
 No 4025		size 4
 No 40aD/25/8		1/4"  No 40aD: sizes 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16" No 40aDL: sizes 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16" No 402a: sizes 1/4; 5/16; 3/8; 7/16; 1/2" No 400; 405/2; 405/4; 405/6; 407; 412; 415 SG-QR; 417/1
 No 409		3/8"  1/4" 
 No 415SGB		1/4" 
 No 46a		3/8"  sizes 7/16; 1/2; 9/16; 5/8"
 No 427/18		3/8"   455 mm
 No 431		1/4"  3/8" 
 No 45a/19/9		3/8"  No 45a: sizes 1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8" No 47a: sizes 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4" No 427/10; 427/6; 427/3; 428; 433/1; 435SG-QR; 442; 443; 453
 No 1220		size 0
 No 1221		size 1
 No 1222		size 2
 No 1223		size 3
 No 13010		sizes 0; 1; 2; 3; 4; 5; 6; 8; 10
 No 4006/1		1/4" 
 No 12503		1/4" 
 No 4722		size 1 (1 x 5.5 x 100 mm); size 3 (1.2 x 8 x 150 mm); size 4 (1.6 x 10 x 175 mm)
 No 4732		sizes 1; 2; 3
 No 10760aCV/13		sizes 0.028; 0.035; 0.050; 1/16; 5/64; 3/32; 7/64; 1/8; 9/64; 5/32; 3/16; 7/32; 1/4"

	No 65 01 5 180	
	No 65 10 5 190	
	No 65 31 5 190	
	No 65 51 6 240	
	No 65 75 1 280	
	No 66 00 5 180	
	No 105-8/6 K	No 105/120 x 10 mm; No 108/150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6 mm
	No 10670	205 mm
	No 10955	∅ 27 mm
	No 10960	300 g
	No 12320	
	No 12321	
	No 12600	500 g
	No 12900	
	No 12921N	∅ 50 mm
	No 12922	
	No 12931	3 m
	No 13110	300 mm
	No 13126	
	No 13135	




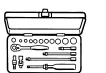
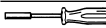















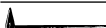
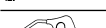


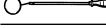


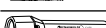





13205a Standard aircraft maintenance tool set

128 Tools

Code		△▽ kg
97846012		9.2
	No 12a/13Pc	sizes 5/32; 3/16; 13/64; 7/32; 15/64; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
	No 13a	sizes 3/16; 13/64; 7/32; 15/64; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4"
	No 23a	sizes 5/16 x 11/32; 7/16 x 1/2; 1/2 x 9/16; 5/8 x 11/16; 5/8 x 3/4"
	No 230a	size 3/8 x 7/16; 9/16 x 5/8"
	No 4025	size 4
	No 409	3/8" ■ 1/4" ○
	No 40aD/25/8	1/4" ○ No 40aD: sizes 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16" No 40aDL: sizes 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16" No 402a: sizes 1/4; 5/16; 3/8; 7/16; 1/2" No 400; 405/2; 405/4; 405/6; 407; 412; 415 SG-QR; 417/1
	No 1161-1166	0.5 x 4; 0.6 x 3.5; 0.6 x 4.5; 0.8 x 4; 0.8 x 5.5; 1 x 5.5 mm
	No 1220-1223	sizes 0; 1; 2; 3
	No 13008	sizes 0; 1; 2; 3; 4; 5
	No 13010	sizes 0; 1; 2; 3; 4; 5; 6; 8; 10
	No 4006/1	1/4" ○
	No 12503	1/4" ○
	No 4722	size 1 (1 x 5.5 x 100 mm); size 3 (1.2 x 8 x 150 mm); size 4 (1.6 x 10 x 175 mm)
	No 4732	sizes 1; 2; 3
	No 65 01 5 180	
	No 65 10 5 190	
	No 65 31 5 190	
	No 65 51 6 240	
	No 65 75 1 220	
	No 66 00 5 180	
	No 105-8/6 K	No 105/120 x 10 mm; No 108/150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6 mm
	No 10955	∅ 27 mm
	No 10960	300 g
	No 12025	200 mm
	No 12030	250 mm
	No 12035	200 mm
	No 12036	250 mm
	No 12053	
	No 12321	
	No 12900	
	No 12921N	∅ 40 mm
	No 13110	300 mm
	No 13126	




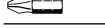


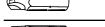
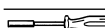













13207a Electricians set in tool case
No 13209

117 Tools

Code		 kg
98810322		14.4
 No 13a	sizes $\frac{3}{16}$; $\frac{13}{64}$; $\frac{7}{32}$; $\frac{15}{64}$; $\frac{1}{4}$; $\frac{9}{32}$; $\frac{5}{16}$; $\frac{11}{32}$; $\frac{3}{8}$; $\frac{7}{16}$; $\frac{1}{2}$; $\frac{9}{16}$; $\frac{19}{32}$; $\frac{5}{8}$; $\frac{11}{16}$; $\frac{3}{4}$ "	
 No 12a/13Pc	sizes $\frac{5}{32}$; $\frac{3}{16}$; $\frac{13}{64}$; $\frac{7}{32}$; $\frac{15}{64}$; $\frac{1}{4}$; $\frac{9}{32}$; $\frac{5}{16}$; $\frac{11}{32}$; $\frac{3}{8}$; $\frac{7}{16}$; $\frac{1}{2}$; $\frac{9}{16}$ "	
 No 40aD/10/8	$\frac{1}{4}$ " \odot No 40aD: sizes $\frac{3}{16}$; $\frac{7}{32}$; $\frac{1}{4}$; $\frac{9}{32}$; $\frac{5}{16}$; $\frac{11}{32}$; $\frac{3}{8}$; $\frac{7}{16}$; $\frac{1}{2}$; $\frac{9}{16}$ " No 400; 405/2; 405/4; 405/6; 407; 412; 415SG-QR; 417/1	
 No 4006/1	$\frac{1}{4}$ " \odot	
 No 4760 VDE	size 1 (0.4 x 2.5 x 75 mm); size 3 (0.6 x 3.5 x 100 mm); size 5 (1 x 5.5 x 125 mm); size 6 (1.2 x 6.5 x 150 mm)	
 No 4765 VDE	sizes 0; 1; 2	
 No 12500a	sizes $\frac{1}{8}$; $\frac{5}{32}$; $\frac{3}{16}$; $\frac{7}{32}$; $\frac{1}{4}$; $\frac{9}{32}$; $\frac{5}{16}$; $\frac{11}{32}$; $\frac{3}{8}$; $\frac{7}{16}$ "	
 No 10760aCV/13	sizes 0.028; 0.035; 0.050; $\frac{1}{16}$; $\frac{5}{64}$; $\frac{3}{32}$; $\frac{7}{64}$; $\frac{1}{8}$; $\frac{9}{64}$; $\frac{5}{32}$; $\frac{3}{16}$; $\frac{7}{32}$; $\frac{1}{4}$ "	
 No 65 01 5 160, No 65 01 5 180		
 No 65 24 5 160		
 No 65 29 5 200		
 No 65 30 5 200		
 No 65 31 5 170		
 No 65 55 5 125		
 No 65 76 5 230		
 No 66 00 5 130		
 No 66 02 5 180		
 No 66 23 5 160		
 No 105-8/6 K	No 105/120 x 10 mm; No 108/150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6 mm	
 No 10960	300 g	
 No 12053		
 No 12320		
 No 12600	500 g	
 No 12921N	\varnothing 40 mm	
 No 12922		
 No 12940		
 No 13008	sizes 0; 1; 2; 3; 4; 5	
 No 13010	sizes 0; 1; 2; 3; 4; 5	
 No 13126		
 No 13130		
 No 13131		
 No 13209		


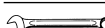


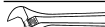



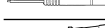


13208a Board case for aircraft in tool case
No 13209





































65 Tools

Code		 kg
98810323		8.9
 No 13a	sizes $\frac{1}{4}$; $\frac{9}{32}$; $\frac{5}{16}$; $\frac{11}{32}$; $\frac{3}{8}$; $\frac{7}{16}$; $\frac{1}{2}$ "	
 No 4025	sizes 4; 6; 8	
 No 1220	size 0	
 No 1221	size 1	
 No 1222	size 2	
 No 1223	size 3	
 No 13008	sizes 0; 1; 2; 3; 4; 5; 6	
 No 13010	sizes 0; 1; 2; 3; 4; 5; 6; 8; 10	
 No 4006/1	$\frac{1}{4}$ " \odot	
 No 4722	size 1 (1 x 5.5 x 100 mm); size 3 (1.2 x 8 x 150 mm); size 4 (1.6 x 10 x 175 mm)	
 No 4732	sizes 1; 2; 3	
 No 10760aCV/13	sizes 0.028; 0.035; 0.050; $\frac{1}{16}$; $\frac{5}{64}$; $\frac{3}{32}$; $\frac{7}{64}$; $\frac{1}{8}$; $\frac{9}{64}$; $\frac{5}{32}$; $\frac{3}{16}$; $\frac{7}{32}$; $\frac{1}{4}$ "	
 No 65 01 5 180		
 No 65 10 5 190		
 No 65 51 6 240		
 No 65 76 5 230		
 No 66 00 5 180		
 No 12320		
 No 13126		
 No 13209		

13210 Electronics set in tool case No 13209







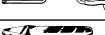








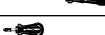




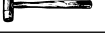

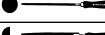










101 Tools

Code		 kg
98810301		10.7
 No 13	sizes 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm	
 No 13a	sizes $\frac{3}{16}$; $\frac{7}{32}$; $\frac{1}{4}$; $\frac{3}{8}$; $\frac{1}{2}$ "	
 No 16	sizes 3.2; 3.5; 4; 4.5; 5 mm	
 No 4025	size 4	
 No 4721	size 5 (1.2 x 8 x 160 mm)	
 No 4724	size 1 (0.6 x 3.5 x 25 mm); size 2 (1.0 x 5.5 x 25 mm)	
 No 4730	sizes 0; 1; 2	
 No 4753	\odot sizes 0.7; 0.9; 1.3 mm	
 No 4760 VDE	size 1 (0.4 x 2.5 x 75 mm); size 4 (0.8 x 4 x 100 mm); size 6 (1.2 x 6.5 x 150 mm)	
 No 4797	\ominus 4751: 0.3 x 1.5; 0.4 x 2; 0.4 x 2.5; 0.5 x 3 mm \oplus 4752: No 00, No 0; No 1	

	No 10546	size 2 (0.8 x 4 x 100 mm); size 3 (1 x 5.5 x 125 mm)
	No 10554	220-250 Volt
	No 10760aCV/13	sizes 0.028; 0.035; 0.050; 1/16; 5/64; 3/32; 7/64; 1/8; 9/64; 5/32; 3/16; 7/32; 1/4"
	No 10765	sizes 2; 2.5; 3; 4 mm
	No 12500	sizes 6; 7 mm
	No 018/3	
	No 109	sizes 1; 2; 3; 4; 5; 6; 7; 8
	No 65 01 5 160	
	No 65 11 5 135	
	No 65 32 5 170	
	No 65 36 5 160	
	No 66 04 6 110	
	No 66 06 6 130	
	No 66 23 5 160	
	No 12900	
	No 10971	
	No 12921N	∅ 50 mm
	No 13100	
	No 13135	
	Drip oiler	
	Magnetic lifter	
	Electronics tweezers	
	Electronics tweezers	
	Extractor hook set	
	Test equipment set for safety applications	
	Universal soldering iron	
	Solder	
	Solder removing pump, antistatic	
	Blade holders with blades	
	Lamp extractor	
	Magnifying glass	
	2 Screwdrivers	
	Tweezers	
	Stripper	
	Set of soldering tools	
	Solder removing wire	
	Hand vice	
	Inspection mirror, insulated, ∅ 40 mm	
	No 13209	





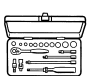













13211a Sheetmetal set

53 Tools

Code		△▽ kg
97846008		9.9
	No 10a	sizes 1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16"
	No 13a	sizes 7/32; 11/32"
	No 23a	sizes 1/2 x 9/16"
	No 230a	sizes 1/4 x 5/16; 3/8 x 7/16"
	No 4025	size 8
	No 442	1/4" ○ 3/8" ○
	No 443	5/16" ○ 3/8" ○
	No 453	3/8" ■
	No 103	150 mm
	No 104-5/6D	No 104/120 x 2; 120 x 3; 120 x 4; 120 x 5; 120 x 6 mm No 105/120 mm
	No 104	175 x 8 mm
	No 108/6D	No 108/150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
	No 4722	size 1 (1 x 5.5 x 100 mm); size 3 (1.2 x 8 x 150 mm); size 4 (1.6 x 10 x 175 mm); size 6 (2.5 x 14 x 250 mm)
	No 4730	sizes 1; 2; 3
	No 4734	size 2
	No 65 01 4 180	
	No 65 64 2 175	
	No 66 02 4 160	
	No 10670	275 mm
	No 10955	32 mm ∅
	No 10970	3/4; 1 1/2 lb.
	No 12025	200 mm
	No 12030	250 mm
	No 12035	200 mm
	No 12036	250 mm
	No 12050	465 mm
	No 12200	145 mm
	No 12378	
	No 12752R	
	No 12800	
	No 12900	
	No 12931	3 m
	No 13110	300 mm






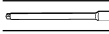
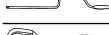






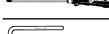

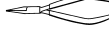








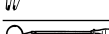
13212a Set for line maintenance

78 Tools

Code		 kg
97846019		4.19
 No 13a	sizes 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"	
 No 4025	size 4	
 No 415SGB	1/4" O	
 No 40aD/10/8	1/4" O No 40aD: sizes 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16" No 400; 405/2; 405/4; 405/6; 407; 412; 415SG-QR; 417/1	
 No 1221	5 x size 1	
 No 1222	5 x size 2	
 No 13010	3 x (sizes 2; 3; 4; 5; 6; 8)	
 No 4006/1	1/4" O	
 No 4722	size 1 (1 x 5.5 x 100 mm); size 3 (1.2 x 8 x 150 mm); size 4 (1.6 x 10 x 175 mm)	
 No 4732	sizes 1; 2	
 No 10760aCV/13	sizes 0.028; 0.035; 0.050; 1/16; 5/64; 3/32; 7/64; 1/8; 9/64; 5/32; 3/16; 7/32; 1/4"	
 No 65 01 5 180		
 No 65 51 6 240		
 No 65 75 1 280		
 No 66 00 5 180		
 No 10960	300 g	
 No 13126		

13213a Engine mechanics set

124 Tools

Code		 kg
97846010		12.2
 No 13a	sizes 19/32; 5/8; 11/16; 3/4"	
 No 130a	sizes 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"	
 No 24	sizes 1/4 x 5/16; 5/16 x 3/8; 3/8 x 7/16; 1/2 x 9/16; 5/8 x 3/4"	
 No 230a	sizes 1/4 x 5/16; 5/16 x 3/8; 3/8 x 7/16; 7/16 x 1/2; 1/2 x 9/16; 9/16 x 5/8; 5/8 x 3/4; 11/16 x 3/4"	
 No 405	1/4" ■ O sizes 10; 14	
 No 413	1/4" ■	
 No 415SGB	1/4" O	
 No 40aD/25/8	1/4" O No 40aD: sizes 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16" No 40aDL: sizes 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16" No 402a: sizes 1/4; 5/16; 3/8; 7/16; 1/2" No 400; 405/2; 405/4; 405/6; 407; 412; 415 SG-QR; 417/1	
 No 45a/19/9	3/8" O No 45a: sizes 1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8" No 47a: sizes 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4" No 427/10; 427/6; 427/3; 428; 433/1; 435SG-QR; 442; 443; 453	
 No 109	sizes 1; 2; 3; 4; 5	
 No 4722	size 1 (1 x 5.5 x 100 mm); size 2 (1.2 x 6.5 x 125 mm); size 4 (1.6 x 10 x 175 mm); size 5 (2 x 12 x 200 mm)	
 No 4731	sizes 1; 2	
 No 4732	sizes 1; 2; 3	
 No 10760aCV/10	sizes 1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4; 5/16; 3/8"	
 No 65 16 5 200		
 No 65 31 5 190		
 No 65 51 6 240		
 No 65 75 1 220		
 No 66 00 5 160		
 No 10960	300 g	
 No 11097/22	4-25/1000"	
 No 12600	500 g	
 No 12900		
 No 12921N	∅ 50 mm	

13214a Line maintenance set in tool box
No 13216/4



for maintenance and overhaul on aeroplanes,
122 Tools

Code	53 kg
98814801	27.2



	No 13a	sizes 3/16; 13/64; 7/32; 15/64; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8; 15/16; 1; 1 1/16; 1 1/8"
	No 25a	sizes 1/4 x 5/16; 5/16 x 11/32; 3/8 x 7/16; 1/2 x 9/16"
	No 40aD	1/4" O sizes 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
	No 40aDL	1/4" O sizes 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
	No 402a	1/4" O sizes 1/4; 5/16; 3/8; 7/16; 1/2"
	No 405/2QR	1/4" O 54 mm
	No 405/6QR	1/4" O 150 mm
	No 407	1/4" O 38 mm
	No 409M	3/8" O 1/4" O
	No 415QR	1/4" O
	No 415SGB	1/4" O
	No 412	1/4" O O
	No 45a	3/8" O sizes 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 15/16; 1"

	No 46a	3/8" O sizes 5/8; 11/16; 3/4; 7/8"
	No 427/3QR	3/8" O 76 mm
	No 427/10QR	3/8" O 240 mm
	No 428	3/8" O 46 mm
	No 431	1/4" O 3/8" O
	No 432M	1/2" O 3/8" O
	No 435QR	3/8" O
	No 443	5/16" O 3/8" O
	No 453	3/8" O
	No 4000	
	No 104	120 x 2; 120 x 3; 120 x 4; 120 x 5 mm
	No 109	sizes 2; 5
	No 4722	size 1 (1 x 5.5 x 100 mm); size 3 (1.2 x 8 x 150 mm)
	No 4732	sizes 1; 2; 3
	No 10767a/13	sizes 0.050; 1/16; 5/64; 3/32; 7/64; 1/8; 9/64; 5/32; 3/16; 7/32; 1/4; 5/16; 3/8"
	No 65 16 5 200	
	No 65 32 5 170	
	No 65 51 6 240	
	No 65 64 2 175	
	No 65 75 1 220	
	No 66 00 5 160	
	No 10956	Ø 35 mm
	No 10960	500 g
	No 11095/20	0.05-1 mm
	No 12053	
	No 12320	
	No 12321	
	No 12600	270 g
	No 12900	
	No 12921N	Ø 50 mm
	No 12922	
	No 12931	3 m
	No 13126	
	No 8050	size 6 (4x); size 12 (6x)
	No 13216/4	

The modular tool tray system

Standard – the perfectly organised workshop!

Tool trays from STAHLWILLE ensure perfect tool management within the Tool Trolley or Tool Box. All the tools are neatly arranged and instantly at hand, and always securely held in the same place. The Tool Trolley or Tool Box can be equipped as required with 1/6, 1/3, 2/3 or 3/3 inlays.

Wherever large numbers of tools are in constant use and rapid, unhindered access is paramount, the inlays in this tried-and-tested modular STAHLWILLE system provide the security and efficiency required for smooth workflows and reliable quality.

The drawers of the Tool Trolleys can be optimally used if a number of spare inlays are kept in store to enable the perfect “for task” combination of tools. In addition, these inlays are made of skydrol resistant and permanently oil resistant engineering plastic and the sculpted cutouts protect your high-grade, expensive tools.

Proven in practice – over and over again. Our TCS and standard inlays will all fit the Converta system



Tool sets in plastic inlays for Work Bench No 92, Tool Trolley No 93, 97/6KM, 97/6M., 97/7, 97/8; Tool Box No 94, 94/6; Magazine case No 920 and Wheely box No 922 (Modular system)

806/10 Tool set

98 Tools, in plastic inlays (modular system see page 32-41), suitable for Work Bench No 92, Tool Trolley No 93, 97/6KM, 97/6M., 97/7, 97/8; Tool Box No 94, 94/6, Magazine case No 920 and Wheely box No 922.

Code	⚖
	kg
96830001	13.35



	No 10	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32 mm
	No 13	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24 mm
	No 40	1/4" ⌀ sizes 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
	No 400	1/4" ■ 150 mm

	No 404	1/4" ■ 116 mm
	No 405/2	1/4" ■ ⌀ 54 mm
	No 405/6	1/4" ■ ⌀ 150 mm
	No 407	1/4" ■ ⌀ 38 mm
	No 412	1/4" ○ ○
	No 415	1/4" ■
	No 10760CV	1.5; 2; 2.5; 3; 4; 5; 6; 8; 10; 12 mm
	No 52	1/2" ⌀ sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm
	No 506	1/2" ■ 300 mm
	No 509/2	1/2" ■ ⌀ 52 mm
	No 509/5	1/2" ■ ⌀ 130 mm
	No 509/10	1/2" ■ ⌀ 255 mm
	No 510	1/2" ■ ⌀ 71 mm
	No 512	1/2" ■
	No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm); size 4 (1 x 5.5 x 125 mm); size 5 (1.2 x 6.5 x 150 mm)
	No 4730	sizes 1; 2; 3
	No 65 01 5 180	
	No 65 29 5 200	
	No 65 43 4 002	
	No 65 45 4 002	
	No 65 51 6 240	
	No 65 64 2 250	
	No 66 02 5 160	
	No 102	175 mm
	No 108	150 x 6; 175 x 6 mm
	No 109	size 6; 100 x 3.4 mm
	No 10956	∅ 35 mm
	No 10960	500 g

Set of empty inlays for No 806/10

Code	⚖
	g
96838101	2320

808/9 Tool set

101 Tools, in plastic inlays (modular system see page 32-41), suitable for Work Bench No 92, Tool Trolley No 93, 97/6KM, 97/6M., 97/7, 97/8; Tool Box No 94, 94/6, Magazine case No 920 and Wheely box No 922.

Code	△△ kg
98830002	11.7



98 83 81 30



98 83 81 05



98 83 81 06



98 83 81 33



98 83 81 11



98 83 81 33



98 83 81 32



98 83 81 24



98 83 81 31

	No 10	sizes 5.5 x 7; 8 x 10; 10 x 12; 11 x 13; 12 x 14; 14 x 17; 17 x 19; 18 x 21; 19 x 22; 22 x 24 mm
	No 14	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24 mm
	No 40	1/4" \bigcirc sizes 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
	No 400	1/4" \blacksquare 150 mm
	No 404	1/4" \blacksquare 116 mm
	No 405/2	1/4" \blacksquare \bigcirc 54 mm
	No 405/6	1/4" \blacksquare \bigcirc 150 mm
	No 407	1/4" \blacksquare \bigcirc 38 mm
	No 412	1/4" \bigcirc \bigcirc
	No 415	1/4" \blacksquare
	No 10760CV	1.5; 2; 2.5; 3; 4; 5; 6; 8; 10; 12 mm
	No 456	3/8" \bigcirc sizes 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
	No 425	3/8" \blacksquare 165 mm

	No 427/3	3/8" \blacksquare \bigcirc 76 mm
	No 427/6	3/8" \blacksquare \bigcirc 160 mm
	No 427/10	3/8" \blacksquare \bigcirc 240 mm
	No 428	3/8" \blacksquare \bigcirc 46 mm
	No 435	3/8" \blacksquare
	No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm)
	No 4722	size 1 (1 x 5.5 x 100 mm); size 2 (1.2 x 6.5 x 125 mm)
	No 4732	sizes 1; 2; 3
	No 65 01 5 200	
	No 65 29 5 160	
	No 65 43 4 002	
	No 65 45 4 002	
	No 65 51 6 240	
	No 65 64 2 250	
	No 66 02 5 160	
	No 102	175 mm
	No 105	120 x 12 mm
	No 108	150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
	No 10956	\varnothing 35 mm
	No 10970	1 lb.

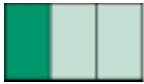
Set of empty inlays for No 808/9

Code	△△ g
96838103	2040

The modular tool tray system

1/6 tray
(175 x 175 mm)1/3 tray
(175 x 350 mm)2/3 tray
(350 x 350 mm)3/3 tray
(530 x 350 mm)

ES 10/10, 5.5x7-22x24 mm



175 x 350 x 60 mm, 10 pieces

Code	g
96838130	1100
No 10	sizes 5.5 x 7; 8 x 10; 10 x 12; 11 x 13; 12 x 14; 14 x 17; 17 x 19; 18 x 21; 19 x 22; 22 x 24 mm
83 81 20 33 Empty tray	106

ES 10/10, 6x7-30x32 mm



175 x 350 x 70 mm, 10 pieces

Code	g
96838126	1515
No 10	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32 mm
83 81 20 22 Empty tray	112

ES 13/10, 6-15 mm



175 x 350 x 40 mm, 10 pieces

Code	g
96838127	525
No 13	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15 mm
83 81 20 23 Empty tray	105

ES 13/8, 16-24 mm



175 x 350 x 54 mm, 8 pieces

Code	g
96838128	1440
No 13	sizes 16; 17; 18; 19; 20; 21; 22; 24 mm
83 81 20 24 Empty tray	112

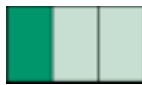
ES 13/5, 27-32 mm



530 x 350 x 30 mm, 5 pieces

Code	g
96838104	2280
No 13	sizes 27; 28; 29; 30; 32 mm
83 81 20 40 Empty tray	287

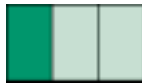
ES 14/10, 6-15 mm



175 x 350 x 39 mm, 10 pieces

Code	g
96838105	700
No 14	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15 mm
83 81 20 34 Empty tray	110

ES 14/8, 16-24 mm



175 x 350 x 51 mm, 8 pieces

Code	g
96838106	1820
No 14	sizes 16; 17; 18; 19; 20; 21; 22; 24 mm
83 81 20 35 Empty tray	112

ES 20/8, 6x7-19x22 mm



175 x 350 x 30 mm, 8 pieces

Code	g
96838167	1266
No 20	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22 mm
83 81 20 83 Empty tray	103

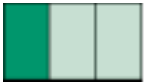
ES 20/10, 6x7-30x32 mm

530 x 350 x 44 mm, 10 pieces

Code	△△ g
96838107	2620

No 20	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32 mm
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83 81 20 44 Empty tray	309
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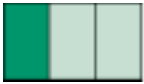
ES 24/7, 8x10-19x22 mm

175 x 350 x 30 mm, 7 pieces

Code	△△ g
96838171	835

No 24	sizes 8 x 10; 10 x 11; 11 x 13; 12 x 14; 14 x 17; 17 x 19; 19 x 22 mm
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83 81 20 86 Empty tray	103
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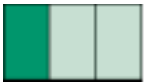
ES 25/7, 7x8-17x19 mm

175 x 350 x 30 mm, 7 pieces

Code	△△ g
96838108	1040

No 25	sizes 7 x 8; 9 x 10; 10 x 11; 12 x 13; 14 x 15; 16 x 18; 17 x 19 mm
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83 81 20 38 Empty tray	111
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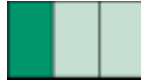
ES 29/6, 8x9-18x19 mm

350 x 175 x 30 mm, 6 pieces

Code	△△ g
96838109	1185

No 29	sizes 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19 mm
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83 81 20 41 Empty tray	105
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ES 10750/10, 6x7-20x22 mm

175 x 350 x 30 mm, 10 pieces

Code	△△ g
96838168	1132

No 10750	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22 mm
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No 10750 1/2	sizes 6; 7
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83 81 20 84 Empty tray	103
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ES 10751/10, 6x7-20x22 mm

175 x 350 x 30 mm, 10 pieces

Code	△△ g
96838169	1586

No 10751	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22 mm
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No 10750 1/2	sizes 6; 7
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83 81 20 84 Empty tray	103
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ES TX/32

175 x 350 x 40 mm, 32 pieces

Code	△△ g
96838166	931

No 21TX	sizes E6 x E8; E10 x E12; E14 x E18; E20 x E24
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No 45TX	3/8" ○ sizes E8; E10; E12; E14
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No 50TX	1/2" ○ sizes E16; E18; E20
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No 412	1/4" ○ ○
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No 442	1/4" ○ 3/8" ○
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No 543	5/16" ○ 1/2" ○
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No 1440	size T10
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No 1441	size T15
----------------	----------

No 1442	size T20
----------------	----------

No 1443	size T25
----------------	----------

No 1444	size T27
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No 1445	size T30
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No 1432	size T40
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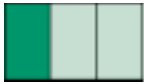
No 1433	size T45
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No 1434	size T50
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No 10766	sizes T8; T9; T10; T15; T20; T25; T27; T30; T40
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83 81 20 82 Empty tray	103
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ES 1/4" + 10760CV



175 x 350 x 41 mm, 27 pieces

Code		g
96838110		1035
No 40	1/4" \bigcirc sizes 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm	
No 400	1/4" \blacksquare 150 mm	
No 404	1/4" \blacksquare 116 mm	
No 405/2	1/4" \blacksquare \bigcirc 54 mm	
No 405/6	1/4" \blacksquare \bigcirc 150 mm	
No 407	1/4" \blacksquare \bigcirc 38 mm	
No 412	1/4" \bigcirc \bigcirc	
No 415	1/4" \blacksquare	
No 10760CV	sizes 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10; 12 mm	
83 81 20 28	Empty tray	107

ES 456/16/6



175 x 350 x 40 mm, 22 pieces

Code		g
96838111		1440
No 456	3/8" \bigcirc sizes 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm	
No 425	3/8" \blacksquare 165 mm	
No 427/3	3/8" \blacksquare \bigcirc 76 mm	
No 427/6	3/8" \blacksquare \bigcirc 160 mm	
No 427/10	3/8" \blacksquare \bigcirc 240 mm	
No 428	3/8" \blacksquare \bigcirc 46 mm	
No 435	3/8" \blacksquare	
83 81 20 32	Empty tray	103

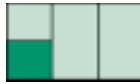
ES 52/17



175 x 350 x 47 mm, 17 pieces

Code		g
96838112		1760
No 52	1/2" \bigcirc sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm	
83 81 20 30	Empty tray	107

ES 51S/4



175 x 175 x 30 mm, 4 pieces

Code		g
96838160		860
No 51S	1/2" \bigcirc sizes 17; 19; 20.8 mm-13/16"; 22 mm	
83 81 20 80	Empty tray	55

ES 721/15/4/2



530 x 350 x 40 mm, 7 pieces

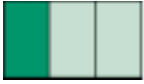
Code		g
96838172		5060
No 51S	1/2" \bigcirc sizes 17; 19; 20.8 mm-13/16"; 22 mm	
No 721/15	30-150 N m	
No 35c cars	17; 19; 22; \blacksquare 1/2"	
No 10599/2	245 mm	
83 81 20 87	Empty tray	299

ES 1/2" -512/6


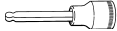


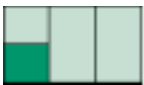
175 x 350 x 35 mm, 6 pieces

Code		g
96838113		1915
No 506	1/2" \blacksquare 300 mm	
No 509/2	1/2" \blacksquare \bigcirc 52 mm	
No 509/5	1/2" \blacksquare \bigcirc 130 mm	
No 509/10	1/2" \blacksquare \bigcirc 255 mm	
No 510	1/2" \blacksquare \bigcirc 71 mm	
No 512	1/2" \blacksquare	
83 81 20 29	Empty tray	110

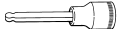
ES 54/54KK

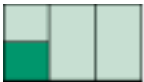
175 x 350 x 38 mm, 14 pieces

Code	g
968381 14	1630
 No 54	1/2" O sizes 4; 5; 6; 7; 8; 10; 12; 14; 17; 19 mm
 No 54KK	1/2" O sizes 5; 6; 8; 10 mm
83 81 20 46	Empty tray 108



ES 54KK/5

175 x 175 x 30 mm, 5 pieces

Code	g
968381 65	505
 No 54KK	1/2" O sizes 5; 6; 7; 8; 10 mm
83 81 20 51	Empty tray 55



ES 1054/2054

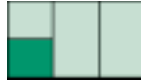
175 x 175 x 30 mm, 6 pieces

Code	g
968381 64	900
 No 1054	1/2" O sizes 8; 10; 12 mm
 No 2054	1/2" O sizes 5; 6; 14 mm
83 81 20 81	Empty tray 55



ES 54X/54TX

175 x 350 x 38 mm, 16 pieces

Code	g
968381 15	1600
 No 54X	1/2" O sizes M5; M6; M8; M10; M12; M14; M16
 No 54TX	1/2" O sizes T20; T25; T27; T30; T40; T45; T50; T55; T60
83 81 20 45	Empty tray 111






ES 1054/2054TX/6

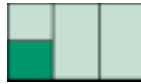
175 x 175 x 30 mm, 6 pieces

Code	g
968381 63	950
 No 1054TX	1/2" O sizes T30; T50; T55; T60
 No 2054TX	1/2" O sizes T40; T45
83 81 20 81	Empty tray 55


ES 55/6/3

530 x 350 x 83 mm, 10 pieces

Code	g
968381 74	7875
 No 55	3/4" O sizes 34; 36; 41; 46; 50; 55 mm
 No 552	3/4" ■
 No 556	3/4" ■
 No 558	510 mm
 No 559/8	3/4" ■ O 200 mm
83 81 20 89	Empty tray 298

ES 51IMP/4*


175 x 175 x 40 mm, 4 pieces

Code	g
968381 61	1280
 No 51IMP	1/2" O sizes 17; 19; 20.8 mm- ¹³ / ₁₆ "; 22 mm
83 81 20 80	Empty tray 55

* to be discontinued

ES 2309/4

175 x 175 x 40 mm, 4 pieces

Code	g
968381 62	1145
 No 2309	1/2" O sizes 17; 19; 20.8 mm- ¹³ / ₁₆ "; 22 mm
83 81 20 80	Empty tray 55

ES 4720/4730/7



175 x 350 x 33 mm, 7 pieces

Code	g
96838116	544
No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm); size 4 (1 x 5.5 x 125 mm); size 5 (1.2 x 6.5 x 150 mm)
No 4730	sizes 1; 2; 3
83 81 20 26 Empty tray	111

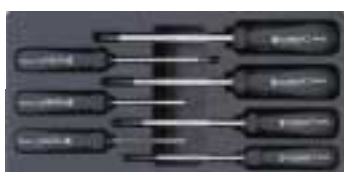
ES 4720/4722/4732/7



175 x 350 x 35 mm, 7 pieces

Code	g
96838133	575
No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm)
No 4722	size 1 (1 x 5.5 x 100 mm); size 2 (1.2 x 6.5 x 125 mm)
No 4732	sizes 1; 2; 3
83 81 20 26 Empty tray	111

ES 4756/7



175 x 350 x 39 mm, 7 pieces

Code	g
96838118	500
No 4756	sizes T10; T15; T20; T25; T30; T40; T45
83 81 20 39 Empty tray	110

ES 4820/4830/6



175 x 350 x 33 mm, 6 pieces

Code	g
96838134	480
No 4820	0.6 x 3.5 x 75 mm; 0.8 x 4 x 100 mm; 1 x 5.5 x 125 mm; 1.2 x 6.5 x 150 mm
No 4830	sizes 1; 2
83 81 20 66 Empty tray	111

ES 4820/4830/8



175 x 350 x 30 mm, 8 pieces

Code	g
96838135	735
No 4820	0.6 x 3.5 x 75 mm; 0.8 x 4 x 100 mm; 1 x 5.5 x 125 mm; 1.2 x 6.5 x 150 mm; 1.6 x 8 x 175 mm
No 4830	sizes 1; 2; 3
83 81 20 68 Empty tray	110

ES 4856/9



175 x 350 x 30 mm, 9 pieces

Code	g
96838136	493
No 4856	sizes T8; T9; T10; T15; T20; T25; T27; T30; T40
83 81 20 67 Empty tray	110

ES 12500/7



175 x 350 x 30 mm, 7 pieces

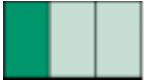
Code	g
96838170	969
No 12500	sizes 7; 8; 9; 10; 11; 12; 13 mm
83 81 20 85 Empty tray	103

ES 10768/6



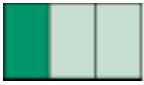
350 x 350 x 37 mm, 6 pieces

Code	g
96838119	780
No 10768	sizes 3; 4; 5; 6; 8; 10 mm
83 81 20 42 Empty tray	209

ES 10769/7

175 x 350 x 35 mm, 7 pieces

Code	g
96838120	450
No 10769	sizes T10; T15; T20; T25; T27; T30; T40
83 81 20 43 Empty tray	116

ES 10769B/7

175 x 350 x 35 mm, 7 pieces

Code	g
96838129	450
No 10769B	sizes T10; T15; T20; T25; T27; T30; T40
83 81 20 43 Empty tray	116

ES 6501-6602/7A

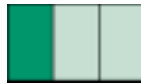
530 x 350 x 40 mm, 7 pieces

Code	g
96838121	2085
No 65 01 5 180	
No 65 29 5 200	
No 65 43 4 002	
No 65 45 4 002	
No 65 51 6 240	
No 65 64 2 250	
No 66 02 5 160	
83 81 20 21 Empty tray	307

ES 6501-6602/7B

530 x 350 x 40 mm, 7 pieces

Code	g
96838132	2055
No 65 01 5 200	
No 65 29 5 160	
No 65 43 4 002	
No 65 45 4 002	
No 65 51 6 240	
No 65 64 2 250	
No 66 02 5 160	
83 81 20 21 Empty tray	307

ES 6543-6546/4

175 x 350 x 30 mm, 4 pieces

Code	g
96838122	700
No 65 43 4 002	
No 65 44 4 021	
No 65 45 4 002	
No 65 46 4 021	
83 81 20 37 Empty tray	109

ES 102/108/109/4



175 x 350 x 30 mm, 4 pieces

Code		g
96838123		555
No 102	175 mm	
No 108	150 x 6; 175 x 6 mm	
No 109	size 6; 100 x 3.4 mm	
83 81 20 27	Empty tray	115

ES 102/105/108/8



175 x 350 x 33 mm, 8 pieces

Code		g
96838124		900
No 102	175 mm	
No 105	120 x 12 mm	
No 108	150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm	
83 81 20 36	Empty tray	114

ES 10670-13110/11



530 x 350 x 35 mm, 11 pieces

Code		g
96838173		2120
No 10670	255 mm	
No 12025	200 mm	
No 12030	250 mm	
No 12035	200 mm	
No 12036	250 mm	
No 12050	465 mm	
No 12320		
No 12321		
No 12377		
No 12931	3 m	
No 13110	300 mm	
83 81 20 88	Empty tray	301

ES 10956/10960/2



175 x 350 x 45 mm, 2 pieces

Code		g
96838125		1130
No 10956	∅ 35 mm	
No 10960	500 g	
83 81 20 25	Empty tray	114

ES 10956/10970/2



175 x 350 x 45 mm, 2 pieces

Code		g
96838131		1075
No 10956	∅ 35 mm	
No 10970	1 lb.	
83 81 20 25	Empty tray	114

Empty inlay

175 x 350 x 30 mm



Code		g
83812047		110

Empty inlay

175 x 175 x 28 mm



Code		g
83812080		55

The modular tool tray system



Tool Control System – built-in safety!

Initially, the TCS Tool Control System was developed by STAHLWILLE in conjunction with British Aerospace MAD for the aerospace industry with a view to improving safety. Today, the system is appreciated by employees

in the automotive industry and other fields of industry and the trades for its convincing benefits. The system guarantees a high level of organisation and security, protects high-grade, expensive tools

from damage and is ideal wherever large numbers of tools are prone to “disappear” – in other words, a real value-for-money investment that will soon pay for itself.

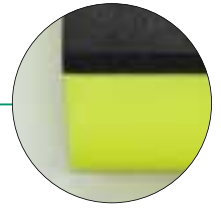
The advantages at a glance

- With our Tool Control System, the tools are arranged in chemical-resistant special foam inlays with sculpted three-dimensional cut-outs.
- The signal colour is yellow. A glance is enough to see whether all tools are in their correct places: if you can see yellow, there is something missing.



1. The sculpted cut-outs for each tool are individually shaped using computer technology to provide each tool with a secure place. Additional moulded finger holes to facilitate removal and replacement of the tools.

2. The sculpted cut-outs enable you to see at a glance where each tool goes. Saves time and money.



4. Two-layer, two colour plastic inlays: the upper half is black and the lower layer is yellow.



3. The inlays are chemical-resistant and extremely flexible.

Tool sets in TCS inlays for Work Bench No 92, Tool Trolley No 93, 97/6KM, 97/6M., 97/7, 97/8; Tool Box No 94, 94/6; Magazine Case No 920 and Wheely Box No 922

806/9 TCS TCS tool set



98 Tools, in TCS inlays (Tool Control System see page 42-50), suitable for Work Bench No 92, Tool Trolley No 93, 97/6KM, 97/6M., 97/7, 97/8; Tool Box No 94, 94/6, Magazine case No 920 and Wheely box No 922.

Code	kg
98830004	12.53



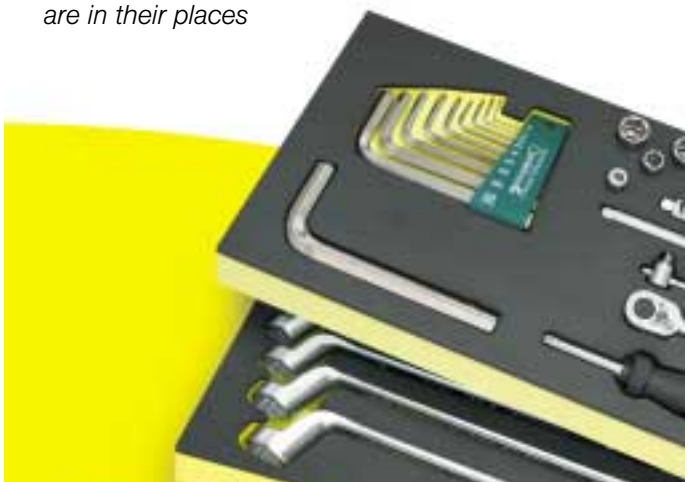
	No 10	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32 mm
	No 13	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24 mm
	No 40	1/4" sizes 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
	No 400	1/4" 150 mm

	No 404	1/4" 116 mm
	No 405/2	1/4" 54 mm
	No 405/6	1/4" 150 mm
	No 407	1/4" 38 mm
	No 412	1/4"
	No 415	1/4"
	No 10760CV	1.5; 2; 2.5; 3; 4; 5; 6; 8; 10; 12 mm
	No 52	1/2" sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm
	No 506	1/2" 300 mm
	No 509/2	1/2" 52 mm
	No 509/5	1/2" 130 mm
	No 509/10	1/2" 255 mm
	No 510	1/2" 71 mm
	No 512	1/2"
	No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm); size 4 (1 x 5.5 x 125 mm); size 5 (1.2 x 6.5 x 150 mm)
	No 4730	sizes 1; 2; 3
	No 65 01 5 180	
	No 65 29 5 200	
	No 65 43 4 002	
	No 65 45 4 002	
	No 65 51 6 240	
	No 65 64 2 250	
	No 66 02 5 160	
	No 102	175 mm
	No 108	150 x 6; 175 x 6 mm
	No 109	size 6; 100 x 3.4 mm
	No 10956	∅ 35 mm
	No 10960	500 g



Tool Control System
The safety inlay system

- Designed to fit our Tool Trolleys and Tool Boxes
- With yellow signal cut-outs to show whether all tools are in their places



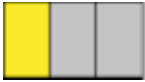
TCS 10/10, 6x7-30x32 mm

350 x 350 x 30 mm, 10 pieces

Code	g
96838182	1414

**No 10**

sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13;
14 x 15; 16 x 17; 18 x 19; 20 x 22;
24 x 27; 30 x 32 mm

TCS 10/10, 6x7-24x27 mm

175 x 350 x 66 mm, 10 pieces

Code	g
96838187	1287

**No 10**

sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13;
14 x 15; 16 x 17; 18 x 19; 20 x 22;
21 x 24; 24 x 27 mm

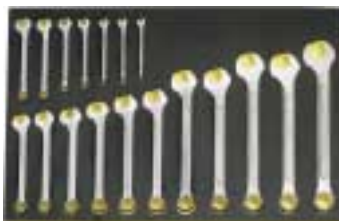
TCS 10/11, 6x7-34x36 mm

175 x 350 x 82 mm, 11 pieces

Code	g
96830167	2056

**No 10**

sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13;
14 x 15; 16 x 17; 18 x 21; 19 x 22;
24 x 27; 30 x 32; 34 x 36 mm

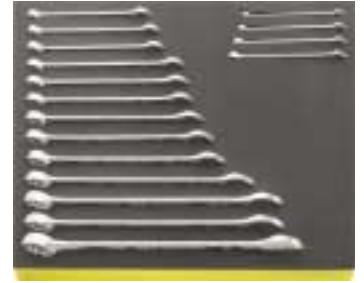
TCS 13/18, 6-24 mm

530 x 350 x 35 mm, 18 pieces

Code	g
96838183	1850

**No 13**

sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 20; 21; 22; 24 mm

TCS 13/17, 6-24 mm

350 x 350 x 60 mm, 17 pieces

Code	g
96830164	1615

**No 13**

sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 21; 22; 24 mm

TCS 13/21, 6-34 mm

530 x 350 x 75 mm, 21 pieces

Code	g
96830174	3571

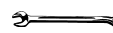
**No 13**

sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 21; 22; 24; 27; 30; 32;
34 mm

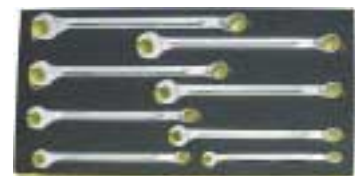
TCS 14/5, 17-21 mm

175 x 350 x 30 mm, 5 pieces

Code	g
96838188	1065

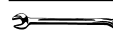
**No 14**

sizes 17; 18; 19; 20; 21 mm

TCS 14/8, 8-16 mm

175 x 350 x 35 mm, 8 pieces

Code	g
96838189	660

**No 14**

sizes 8; 10; 11; 12; 13; 14; 15;
16 mm

TCS 20/8, 6x7-19x22 mm


175 x 350 x 45 mm, 8 pieces

Code	
	g
96838192	1300

No 20	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22 mm
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TCS 20/10, 6x7-30x32 mm


350 x 350 x 45 mm, 10 pieces

Code	
	g
96830166	2450

No 20	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22; 24 x 27; 30 x 32 mm
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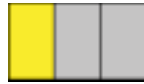
TCS 21+24/13


350 x 350 x 30 mm, 13 pieces

Code	
	g
96830165	1355

No 21	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24; 27 x 32; 30 x 34 mm
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No 24	sizes 10 x 11; 12 x 14 mm
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TCS 1/4" + 10760CV


175 x 350 x 37 mm, 27 pieces

Code	
	g
96838176	987

No 40	1/4" sizes 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
No 400	1/4" 150 mm
No 404	1/4" 116 mm
No 405/2	1/4" 54 mm
No 405/6	1/4" 150 mm
No 407	1/4" 38 mm
No 412	1/4"
No 415	1/4"
No 10760CV	sizes 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10; 12 mm

TCS 40/41/44


175 x 350 x 40 mm, 32 pieces

Code	
	g
96830160	680

No 40	1/4" sizes 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
No 41K	1/4" sizes 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm
No 44K	1/4" sizes 3; 4; 5; 6; 8 mm
No 44P	1/4" sizes 1; 2; 3; 4
No PZ 1221	1/4" size 1
No PZ 1222	1/4" size 2
No 400	1/4" 150 mm
No 404	1/4" 116 mm
No 405/2	1/4" 54 mm
No 405/6	1/4" 150 mm
No 407	1/4" 38 mm
No 412	1/4"
No 415	1/4"

TCS 456/16/4



175 x 350 x 40 mm, 20 pieces

Code	g
96830161	1123

	No 456	3/8" \varnothing sizes 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
	No 427/5	3/8" \blacksquare \varnothing 125 mm
	No 427/10	3/8" \blacksquare \varnothing 240 mm
	No 428	3/8" \blacksquare \varnothing 46 mm
	No 435	3/8" \blacksquare

TCS 1/2"-512/6



175 x 350 x 35 mm, 6 pieces

Code	g
96838175	1845

	No 506	1/2" \blacksquare 300 mm
	No 509/2	1/2" \blacksquare \varnothing 52 mm
	No 509/5	1/2" \blacksquare \varnothing 130 mm
	No 509/10	1/2" \blacksquare \varnothing 255 mm
	No 510	1/2" \blacksquare \varnothing 71 mm
	No 512	1/2" \blacksquare

TCS 50/52/25/5



350 x 350 x 45 mm, 30 pieces

Code	g
96830162	3652

	No 50	1/2" \varnothing sizes 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 30 mm
	No 52	1/2" \varnothing sizes 12; 17; 18; 19; 20; 21; 22; 24; 25; 27; 30; 32 mm
	No 509/2	1/2" \blacksquare \varnothing 52 mm
	No 509/5	1/2" \blacksquare \varnothing 130 mm
	No 509/10	1/2" \blacksquare \varnothing 255 mm
	No 510	1/2" \blacksquare \varnothing 71 mm
	No 512	1/2" \blacksquare

TCS 50/51/52/32



175 x 350 x 50 mm, 32 pieces

Code	g
96838191	2950

	No 50	1/2" \varnothing sizes 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 30 mm
	No 52	1/2" \varnothing sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm
	No 51	1/2" \varnothing sizes 22; 27 mm

TCS 52/17



175 x 350 x 40 mm, 17 pieces

Code	g
96838177	1605

	No 52	1/2" \varnothing sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm
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TCS 54/2309K/12506

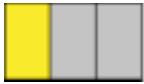


175 x 350 x 40 mm, 13 pieces

Code	g
96830163	1830

	No 54	1/2" \varnothing sizes 5; 6; 7; 8; 10; 12; 14; 17; 19 mm
	No 2309K	1/2" \varnothing sizes 17; 19 mm
	No 12506	sizes 6; 7 mm

TCS 51IMP/54/2309/2309K

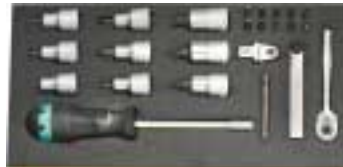


175 x 350 x 40 mm, 14 pieces

Code	g
96830172	2601

	No 54	1/2" O sizes 5; 6; 7; 8; 10; 12; 14; 17; 19 mm
	No 51IMP	1/2" O sizes 24; 27 mm
	No 2309 No 2309K	1/2" O size 22 mm 1/2" O sizes 17; 19 mm

TCS TX



175 x 350 x 45 mm, 24 pieces

Code	g
96838190	1140

	No 1410	size T6
	No 1411	size T7
	No 1412	size T8
	No 1413	size T9
	No 1414	size T10
	No 1415	size T15
	No 1416	size T20
	No 1417	size T25
	No 1418	size T27
	No 1419	size T30
	No 1295	size T30
	No 415SGB	1/4" O
	No 4006/1	1/4" O
	No 11095/13	
	No 736/10	5/16" O
	No 54TXB	1/2" O sizes T20; T25; T27; T30; T40; T45; T50; T55; T60

TCS TX/49X/78



530 x 350 x 43 mm, 78 pieces

Code	g
96830169	2685

	No 21TX	sizes E6 x E8; E10 x E12; E14 x E18; E20 x E24
	No 40TX	1/4" O sizes E4; E5; E6; E7; E8
	No 44KTXB	1/4" O sizes T10; T15; T20; T25; T27; T30; T40
	No 45TX	3/8" O sizes E10; E12; E14
	No 47TX	3/8" O sizes E8; E10
	No 49TX	3/8" O size T40
	No 49X	3/8" O sizes M6; M8; M10
	No 50TX	1/2" O sizes E11; E16; E18; E20; E24
	No 54TX	1/2" O sizes T45; T50; T55; T60
	No 54TXB	1/2" O sizes T30; T40; T45; T50
	No 409M	3/8" ■ 1/4" O
	No 415SGB	1/4" O
	No 1410	size T6
	No 1411	size T7
	No 1412	size T8
	No 1413	size T9
	No 1440	size T10
	No 1441	size T15
	No 1442	size T20
	No 1443	size T25
	No 1444	size T27
	No 1445	size T30
	No 1446	size T40
	No 1427	size T25 (65 mm)
	No PZ1221	size 1
	No PZ1222	size 2
	No PZ1223	size 3
	No 3115/1	1/4" ■ ●
	No 4750	sizes T6; T7; T8; T9; T10; T15; T20; T25; T27; T30
	No 10766	sizes T6; T7
	No 10766/9	sizes T8; T9; T10; T15; T20; T25; T27; T30; T40
		TORX® controller

TCS TX/49X/76



530 x 350 x 43 mm, 76 pieces

Code		g
96830176		2555
No 21TX	sizes E6 x E8; E10 x E12; E14 x E18; E20 x E24	
No 40TX	1/4" \bigcirc sizes E4; E5; E6; E7; E8	
No 44KTXB	1/4" \bigcirc sizes T10; T15; T20; T25; T27; T30; T40	
No 45TX	3/8" \bigcirc sizes E10; E12; E14	
No 49TX	3/8" \bigcirc size T40	
No 49X	3/8" \bigcirc sizes M6; M8; M10	
No 50TX	1/2" \bigcirc sizes E11; E16; E18; E20; E24	
No 54TX	1/2" \bigcirc sizes T45; T50; T55; T60	
No 54TXB	1/2" \bigcirc sizes T30; T40; T45; T50	
No 409M	3/8" \blacksquare 1/4" \bigcirc	
No 415SGB	1/4" \bigcirc	
No 1410	size T6	
No 1411	size T7	
No 1412	size T8	
No 1413	size T9	
No 1440	size T10	
No 1441	size T15	
No 1442	size T20	
No 1443	size T25	
No 1444	size T27	
No 1445	size T30	
No 1446	size T40	
No 1427	size T25 (65 mm)	
No PZ1221	size 1	
No PZ1222	size 2	
No PZ1223	size 3	
No 3115/1	1/4" \blacksquare \bullet	
No 4750	sizes T6; T7; T8; T9; T10; T15; T20; T25; T27; T30	
No 10766	sizes T6; T7	
No 10766/9	sizes T8; T9; T10; T15; T20; T25; T27; T30; T40	
	TORX® controller	

TCS 55/10/5



530 x 350 x 90 mm, 15 pieces

Code		g
96830173		9510
No 55	3/4" \bigcirc sizes 22; 24; 27; 30; 32; 36; 38; 41; 46; 50 mm	
No 552	3/4" \blacksquare	
No 556	3/4" \blacksquare	
No 559/8	3/4" \blacksquare \bigcirc 200 mm	
No 559/16	3/4" \blacksquare \bigcirc 400 mm	
No 558	510 mm	

TCS 4720/4730



175 x 350 x 35 mm, 7 pieces

Code		g
96838178		475
No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm); size 4 (1 x 5.5 x 125 mm); size 5 (1.2 x 6.5 x 150 mm)	
No 4730	sizes 1; 2; 3	

TCS 4720/4760VDE+10767



530 x 350 x 35 mm, 27 pieces

Code		g
96830168		1925
No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm); size 5 (1.2 x 6.5 x 150 mm); size 6 (1.6 x 8 x 175 mm); size 7 (1.6 x 10 x 200 mm); size 8 (2 x 12 x 200 mm)	
No 4724	size 2 (1 x 5.5 x 25 mm)	
No 4728	size 1 (0.4 x 2.5 x 50 mm)	
No 4730	sizes 1; 2; 3	
No 4732	size 4	
No 4734	size 2	
No 4740	sizes 0; 1; 2	
No 4744	size 1	
No 4760 VDE	size 1 (0.4 x 2.5 x 75 mm)	
No 10767/9	sizes 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm	

TCS 4720/4760VDE



530 x 350 x 40 mm, 18 pieces

Code	g
96830179	1510
No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm); size 5 (1.2 x 6.5 x 150 mm); size 6 (1.6 x 8 x 175 mm); size 7 (1.6 x 10 x 200 mm); size 8 (2 x 12 x 200 mm)
No 4724	size 2 (1 x 5.5 x 25 mm)
No 4728	size 1 (0.4 x 2.5 x 50 mm)
No 4730	sizes 1; 2; 3
No 4732	size 4
No 4734	size 2
No 4740	sizes 0; 1; 2
No 4744	size 1
No 4760 VDE	size 1 (0.4 x 2.5 x 75 mm)

TCS 4820/4830



175 x 350 x 35 mm, 7 pieces

Code	g
96838184	555
No 4820	0.6 x 3.5 x 75 mm; 0.8 x 4 x 100 mm; 1 x 5.5 x 125 mm; 1.2 x 6.5 x 150 mm
No 4830	sizes 1; 2; 3

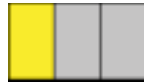
TCS 10760/14, 1,5-22 mm



175 x 350 x 40 mm, 14 pieces

Code	g
96830175	2645
No 10760	sizes 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10; 12; 14; 17; 19; 22 mm

TCS 6501-6602/4



175 x 350 x 35 mm, 4 pieces

Code	g
96838179	1010
No 65 01 5 180	
No 65 29 5 200	
No 65 51 6 240	
No 66 02 5 160	

TCS 6543-6564/3



175 x 350 x 30 mm, 3 pieces

Code	g
96838180	815
No 65 43 4 002	
No 65 45 4 002	
No 65 64 2 250	

TCS 102-109/10956/10960/6



175 x 350 x 40 mm, 6 pieces

Code	g
96838181	1500
No 10956	∅ 35 mm
No 10960	500 g
No 102	175 mm
No 108	150 x 6; 175 x 6 mm
No 109	size 6; 100 x 3.4 mm

TCS 102-108/10957/10960/12



530 x 350 x 40 mm, 12 pieces

Code		g
96830170		2415
No 102	200 mm	
No 103	150 mm	
No 105	120 x 10 mm	
No 108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm	
No 10957	∅ 40 mm	
No 10960	500; 800 g	
No 12718		

TCS 11006-12931/8



530 x 350 x 40 mm, 8 pieces

Code		g
96830178		2430
No 11006	400 mm	
No 11007	400 mm	
No 12025	200 mm	
No 12036	250 mm	
No 12374		
No 12600	3000 g	
No 12718		
No 12931	3 m	

TCS 102-108/10957/10960/13



530 x 350 x 60 mm, 13 pieces

Code		g
96830177		5540
No 102	200; 300 mm	
No 103	175 mm	
No 105	120 x 12 mm	
No 108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm	
No 10957	∅ 50 mm	
No 10960	500; 800; 1000 g	

TCS 13126/13127/2



175 x 350 x 60 mm, 2 pieces

Code		g
96830014		475
No 13126		
No 13127		

TCS 12025-12931/5



350 x 350 x 40 mm, 5 pieces

Code		g
96830171		1060
No 12025	200 mm	
No 12036	250 mm	
No 12374		
No 12600	3000 g	
No 12931	3 m	

Tool display panels

8003/2 Display unit

220 cm high, 100 cm wide, green, RAL 6024, on request available in light grey RAL 7035 and black RAL 9005.

Consists of:
5 steel pegboards 100 x 40 cm,
1 base plate light grey,
2 base supports with adjusting screws, 100 hooks 170 x 9 mm, plastic coated,
25 hooks 170 x 6 mm, plastic coated

without columns and light unit
(please order separately: column No 8024, single, or No 8029, 2 columns, and light unit No 8023)



Code	No		△△ kg
80030000	8003/2		38
80240000	8024	(1 column)	6
80290000	8029	(2 columns)	12
80230010	8023N	(light unit)	9.4

Accessories for display units

8043 Steel display tray for small components

Consisting of:
1 base 100 x 47 cm, RAL 7035, made in one piece with grooves front and back
1 pair hook-on supports for fixing tray to perforated panel, depth 47 cm, RAL 7035
2 dividers, clear plastic, for compartmented tray grooves, 100 x 7.5 cm
8 toothed dividers clear plastic, 47 x 7.5 cm
5 cross dividers, clear plastic, 8.4 x 7.5 cm
25 cross dividers, clear plastic, 16.8 x 7.5 cm
1 price rail, plastic, 100 cm
1 protective film for price rail



Code	W mm	H mm	D mm	△△ kg
88100111	1000	80	470	11.6

W = Width, H = Height, D = Depth

8043/1 Cover for steel display tray

protects against dust and pilfering, lockable, including 2 clear plastic dividers, for tray grooves, 100 x 7.5 cm



Code	W mm	H mm	D mm	△△ kg
88100110	1005	35	450	4.6

W = Width, H = Height, D = Depth

8023N Light unit

with cable



Code	△△ kg
80230010	9.4

8023/1 Connecting cable

for light unit



Code	△△ g
80230001	393

8024 Column

without base support, black RAL 9005



Code	△△ kg
80240000	6

8029 2 Columns

without base supports,
black RAL 9005



Code	ΔΔ
	kg
80290000	12

8025 Base support

for column



Code	ΔΔ
	kg
80250000	3

8026 Steel pegboard

100 x 40 cm, green RAL 6024,
on request available in
light grey RAL 7035



Code	ΔΔ
	kg
80260000	3.8

8027 Base plate

metal, light grey RAL 7035



Code	ΔΔ
	kg
80270000	5.6

8042 Drawer

for storing larger parts under the
base plate.
steel sheet, light grey,
W 100 x H 18 x D 47 cm



Code	ΔΔ
	kg
80420000	8

8015 Plastic coated hook

25 pieces,
55 x 6 mm



Code	ΔΔ
	g
88100103	600

8016 Plastic coated hook

50 pieces,
165 x 9 mm



Code	ΔΔ
	g
88100104	3850

8017 Plastic coated hook

25 pieces,
165 x 6 mm



Code	ΔΔ
	g
88100105	850

8022N Pliers/wrench hook

Code	ΔΔ
	g
88100126	108

8044 Toothed divider

47 x 7.5 cm,
for flexible arrangement of
compartments in the display tray



Code	♻️
	g
88 1001 12	201

8045 Cross divider

16.8 x 7.5 cm,
for flexible arrangement of
compartments in the display tray



Code	♻️
	g
88 1001 18	47

8046 Cross divider

8.4 x 7.5 cm,
for flexible arrangement of
compartments in the display tray



Code	♻️
	g
88 1001 14	21

8049 Protective film

for price rail



Code	♻️
	g
88 1001 17	16

8004/2 Corner display unit, 90°

Consists of:
5 steel pegboards, left, high 40 cm,
green RAL 6024, 5 steel pegboards,
right, high 40 cm, green RAL 6024.
On request available in light grey
RAL 7035.

1 base plate, metal, light grey RAL
7035. 1 base support with adjusting
screws.

Without columns and corner light unit

(please order separately column
No 8024, single, or No 8029,
2 columns, and corner light unit
No 8028)



Code	D mm	W mm	H mm	D mm	♻️ kg
80040000	950	660	2200	850	33.6

8028N Corner light unit

for display unit No 8004/2,
incl. connecting plug and socket.



Code	D mm	W mm	H mm	D mm	♻️ kg
80280010	950	660	180	710	9.5

D = Diagonal, W = Width of pegboard, H = Height, D = Depth

Display stands

ST 11 Display stand for pliers

for 72 pairs of pliers, matt black lacquered, three-tier design. Counter or wall display. Supplied without pliers.



Code	W mm	H mm	D mm	⚖️ kg
82080001	500	200	380	4.5

W = Width, H = Height, D = Depth

ST 97 SERVOMAT display stand for sockets

free standing or for hanging on pegboards, variable partition possible for sockets with $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ " square drive. Display Stand is delivered with 17 dividing elements. Further dividing elements can be ordered for an individual arrangement. Details: sheet metal, green painted, with acryl-glass cover, 660 x 250 x 200 mm. Supplied without sockets.



Code	⚖️ g	📦
82 130001	6380	1

ST 97 Standard partitions R/1201

for SERVOMAT ST 97

Code	partition height	⚖️ g	📦
88 130001	12 mm, straight	20	10

ST 97 Standard partitions R/1202

for SERVOMAT ST 97

Code	partition height	⚖️ g	📦
88 130002	12 mm, bent	22	10

ST 97 Standard partitions R/2201

for SERVOMAT ST 97

Code	partition height	⚖️ g	📦
88 130003	22 mm, straight	40	10

ST 97 Standard partitions R/2202

for SERVOMAT ST 97

Code	partition height	⚖️ g	📦
88 130004	22 mm, bent	41	10



STAHLWILLE spanners

Strong, extremely tough and durable.

Conventional spanners

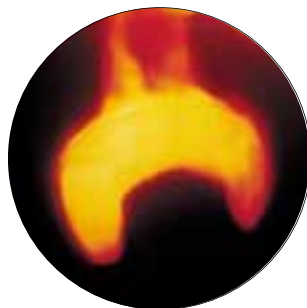
- When force is applied to a spanner, the greatest force acts on the joint between the jaw and the shaft. Standard-quality open-jaw spanners do not take this fact into consideration. In the context of normal, hard work, this can lead to the tool breaking, causing considerable personal injury.

STAHLWILLE spanners

- To reduce the danger of breakage, we add more material where the greatest loads are to be found and take it away from the places that are not under such stress. In this way, we are able to manufacture extremely sturdy, slim and light tools which also facilitate working in confined spaces due to their compact designs.

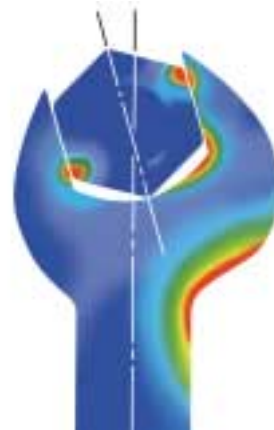
Extremely hard-wearing. Unusually durable.

- High-grade special steels, whose constitution has been carefully matched to the intended application, are drop forged.
- In a continuous furnace they are then hardened in a way that prevents scale build-up and skin decarburisation. This prevents the damaging softened skin effect and ensures the tool retains its full strength.

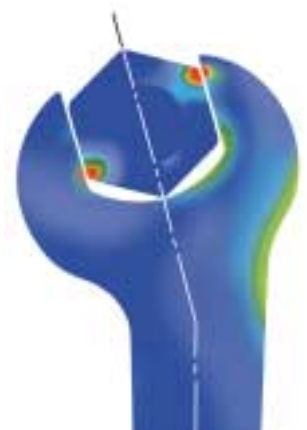


Open-jaw spanners in oil

- Quenching is in oil. This prevents stresses and deformation. The positive effect is that the tolerances in the vicinity of the jaws are very close, efficiently preventing the spanner slipping off the head or jamming in daily use.
- STAHLWILLE's Quality Assurance System applies defined checks to guarantee reliable, uniform levels of quality in spanners.



Load zones in standard-quality spanners



Load zones in spanners by STAHLWILLE

Concentrated force

- STAHLWILLE spanners have been designed in such a way that they can be subjected to greater loads than the screws you tighten or loosen with them.
- Intelligent material distribution puts the steel in places most subject to loads and this, in conjunction with higher grades of steel, makes it possible to produce far thinner rings than usual. As a result, the enduser can take full advantage of STAHLWILLE quality spanners even in awkward spaces.

- The reduction in material used in the central section leads to a noticeable weight-saving. At the same time, the large contact surfaces ensure the best possible grip.
- STAHLWILLE's rounded finish gives the smooth finishing touches to the tool surface making it skin-friendly and easy to hold. Endusers cannot injure themselves on any sharp edges or corners.

Light but easy to handle

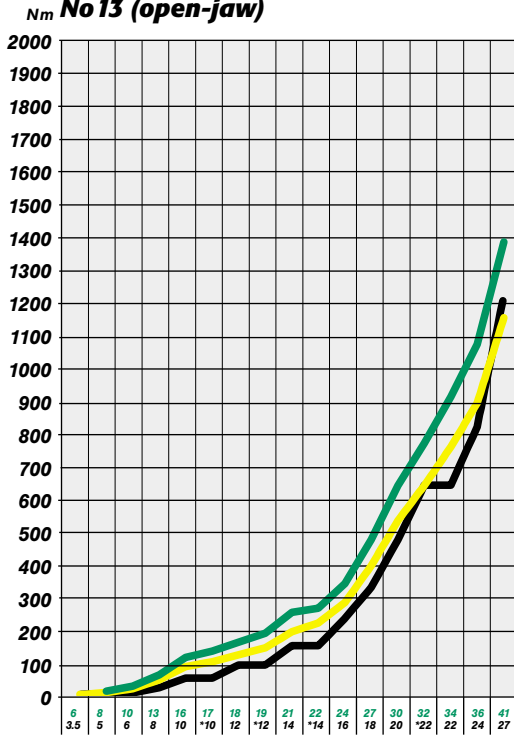
- The double-T profile typical of STAHLWILLE spanners considerably increases the shafts' resistance to bending.



Absolutely resistant to bending thanks to the double-T profile

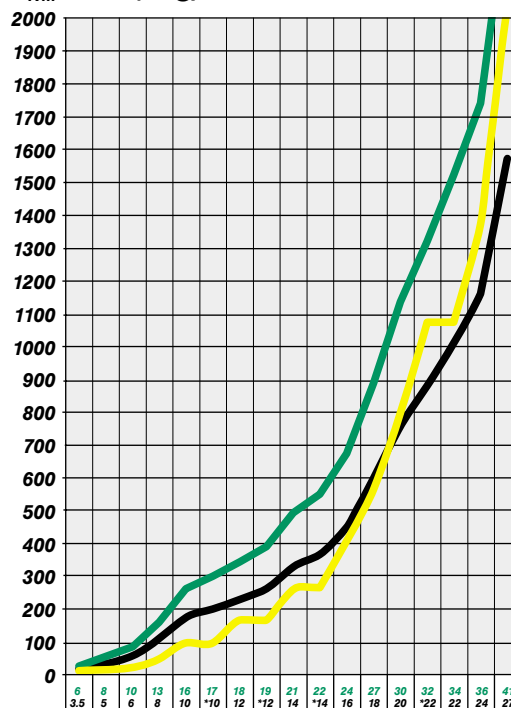


**Guaranteed test results
STAHLWILLE combination spanners
No 13 (open-jaw)**



Size/thread (M) * Reference to older screw thread standards
 — Test results for STAHLWILLE
 — Test results to DIN 899 or ISO 1711
 — Clamping torque for 8.8 screws at 100% tensile yield strength ($\mu = 0.14$)

**Guaranteed test results
STAHLWILLE combination spanners
No 13 (ring)**



— Test results for STAHLWILLE
 — Test results to DIN 899 or ISO 1711
 — Clamping torque for 12.9 screws at 100% tensile yield strength ($\mu = 0.14$)



This one - and the next one: tailored to fit
 STAHLWILLE spanners are continuously tested for accurate sizing.



STAHLWILLE No 8 striking face double hex box-spanners are tougher, thinner and higher.

Key benefits when tightening and loosening screws.

- Tougher than any screw thanks to the forged double hex.
- Thinner than conventional rings - facilitating work in confined spaces.
- Higher than standard nuts - prevents the spanner jamming on the nut.

Quality assured

Strictly defined test procedures at every production stage ensure that the prescribed quality standards are achieved.

STAHLWILLE's Quality Assurance System was awarded an internationally recognised certificate in accordance with DIN ISO 9001 by the DQS (German Association for the Certification of Quality Assurance Systems).

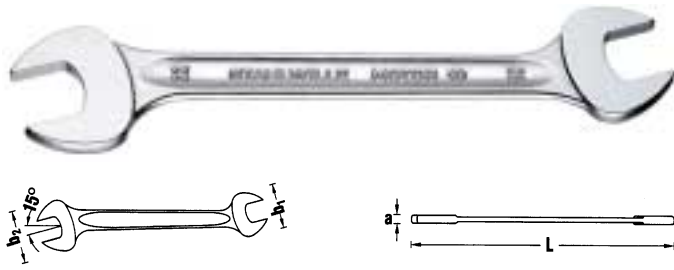
This one - and the next one: perfect chromium-plating

After being correctly pre-treated, the tool is nickel-plated and chromium-plated. No chance of the coatings peeling off here even under tough conditions.



10 Double open ended spanners

DIN 3110, ISO 10102 (metric sizes),
Chrome Alloy Steel, chrome plated.



Code	mm	L mm	b ₁ mm	b ₂ mm	a mm	g	
40030405	4 x 5	100	12.5	14	3.4	11	10
40035507	5.5 x 7	120	14.8	17	3.7	19	10
40030607	6 x 7	120	15.5	17	3.7	17	10
40030708	7 x 8	140	17	18	4.0	25	10
40030809	8 x 9	140	18	21	4.0	21	10
40030810	8 x 10	140	18	23	4.5	33	10
40031011	10 x 11	155	23	26	4.8	40	10
40031012	10 x 12	170	23	28	5.3	51	10
40031013	10 x 13	170	23	30	5.3	57	10
40031113	11 x 13	170	26	30	5.3	55	10
40031213	12 x 13	170	28	30	5.3	64	10
40031214	12 x 14	170	28	32	5.3	63	10
40031314	13 x 14	190	30	32	5.3	70	10
40031315	13 x 15	190	30	35	5.3	73	10
40031316	13 x 16*	205	30	36	5.8	94	10
40031317	13 x 17	205	30	38	5.8	92	10
40031415	14 x 15	190	32	35	5.3	81	10
40031417	14 x 17	205	32	38	5.8	99	10
40031617	16 x 17	205	36	38	5.8	100	10
40031618	16 x 18	220	36	40	6.7	125	10
40031719	17 x 19	220	38	42	6.7	131	10
40031819	18 x 19	220	40	42.5	6.7	147	10
40031821	18 x 21	235	40	47	7.3	170	10
40031922	19 x 22	235	42	49	7.3	179	10
40031924	19 x 24	250	42	53	7.8	217	10
40032022	20 x 22	235	45	49	7.3	185	10
40032123	21 x 23	250	47	51	7.8	225	5
40032124	21 x 24	250	47	53	7.8	215	5
40032224	22 x 24	250	49	53	7.8	232	5
40032426	24 x 26	270	53	57.5	8.3	293	5
40032427	24 x 27	280	53	60	8.3	299	5
40032528	25 x 28	285	55	62	8.3	309	5
40032730	27 x 30	300	60	66	9.4	412	5
40032732	27 x 32	300	60	70	9.4	418	5
40033032	30 x 32	300	66	70	9.4	451	5
40033034	30 x 34	300	66	75	9.4	480	5
40033236	32 x 36	325	70	80	10	546	5
40033436	34 x 36	325	75	80	10	619	1
40033641	36 x 41	375	80	88	11	800	1
40034146	41 x 46	425	88	94.5	12	1040	1

* to be discontinued

10a Double open ended spanners

Code	"	L mm	b ₁ mm	b ₂ mm	a mm	g	
40431620	1/4 x 5/16	140	16	18	4	21	10
40432024	5/16 x 3/8	140	18	23	4.5	34	10
40432428	3/8 x 7/16	155	23	26	4.8	48	10
40432832	7/16 x 1/2	170	26	30	5.3	58	10
40433234	1/2 x 9/16	190	30	32	5.3	73	10
40433436	9/16 x 5/8	205	32	36	5.8	96	10
40433538	19/32 x 11/16	205	35	40	5.8	105	10
40433638	5/8 x 11/16	205	36	40	5.8	101	10
40433640	5/8 x 3/4	220	36	42	6.7	135	10
40433840	11/16 x 3/4	220	40	42	6.7	135	10
40433842	11/16 x 13/16	235	40	47	7.3	167	10
40434044	3/4 x 7/8	235	42	49	7.3	177	10
40434142	25/32 x 13/16	235	45	47	7.3	190	10
40434446	7/8 x 15/16	250	49	53	7.8	235	10
40434648	15/16 x 1	270	53	55	8.3	303	5
40435258	1 1/8 x 1 5/16	300	64	75	9.4	502	5



Sets: Double open ended spanners

Code	No	Content mm/"	g
96400305	10/8	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22	693
96400312	10/9 ¹⁾	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24	945
96400307	10/10	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32	1540
96400313	10/11 ¹⁾	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22; 24 x 27; 30 x 32; 34 x 36	2149
96400306	10/12	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 25 x 28; 30 x 32	2125
96404306	10a/7	1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16; 5/8 x 3/4; 11/16 x 13/16; 7/8 x 15/16; 1 1/8 x 1 5/16	1242
96404307	10a/11	1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16; 5/8 x 3/4; 11/16 x 13/16; 3/4 x 7/8; 25/32 x 13/16; 7/8 x 15/16; 1 1/8 x 1 5/16	1870

Standard packing: clear view wallet.

¹⁾ in convenient clip holder

ES 10/10, 5.5x7-22x24 mm



175 x 350 x 60 mm, 10 pieces

Code	g
96838130	1100

No 10 sizes 5.5 x 7; 8 x 10; 10 x 12; 11 x 13; 12 x 14; 14 x 17; 17 x 19; 18 x 21; 19 x 22; 22 x 24 mm

83 81 20 33 Empty tray	106
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ES 10/10, 6x7-30x32 mm



175 x 350 x 70 mm, 10 pieces

Code	g
96838126	1515

No 10 sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32 mm

83 81 20 22 Empty tray	112
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TCS 10/10, 6x7-30x32 mm



350 x 350 x 30 mm, 10 pieces

Code	g
96838182	1414

No 10 sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32 mm

TCS 10/10, 6x7-24x27 mm



175 x 350 x 66 mm, 10 pieces

Code	g
96838187	1287

No 10 sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24; 24 x 27 mm

TCS 10/11, 6x7-34x36 mm



175 x 350 x 82 mm, 11 pieces

Code	g
96830167	2056

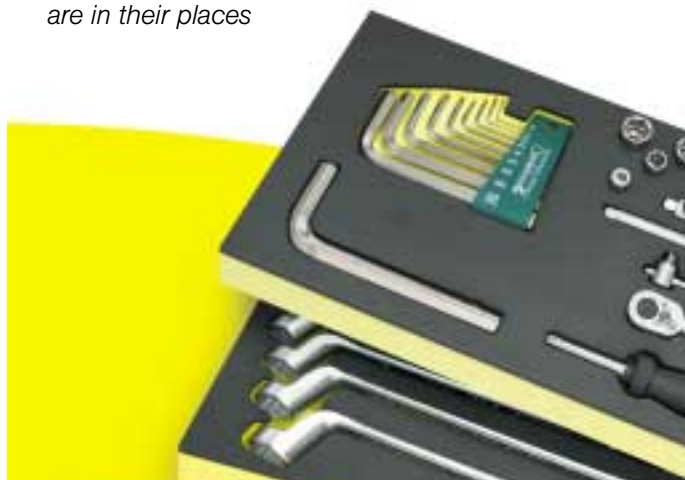
No 10 sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22; 24 x 27; 30 x 32; 34 x 36 mm



Tool Control System

The safety inlay system

- Designed to fit our Tool Trolleys and Tool Boxes
- With yellow signal cut-outs to show whether all tools are in their places



Plastic-wallets for sets of spanners

Code	wallet No	for set No	g
83400305	010/8	10/8*	121
83400306	010/12	10/12*, 10a/11*	276
83404601	012/10	12/10 Pc	41
83400601	012/15	12/15 Pc, 12a/13 Pc	68
83400803	013/15	13/15*	489
83400804	013/17	13/17*	218
83410405	020/8	20/8*	143
83410406	020/12	20/10*, 20/12*, 20a/10*	307
83410704	023/8	23/8*	123

* Plastic-wallets must be ordered separately!

Clip holder for sets of spanners



Code	Clip holder No	for set No	g	
83400307	010/7KH*	10/7	35	1
83400309	010/9KH	10/9, 13/9N	65	1
83400311	010/11KH	10/11	99	1
83400806	013/6KH	13/6	40	1
83400812	013/13KH	13/13	142	1

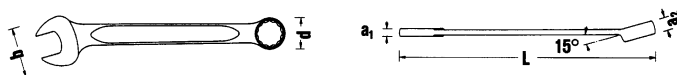
* to be discontinued



13 Combination spanners OPEN-BOX



DIN 3113 form A/ISO 7738 form A (metric sizes), Chrome Alloy Steel, chrome plated.



Code	mm	L mm	b mm	d mm	a ₁ mm	a ₂ mm	g	
40085500	5.5	100	14.8	9.2	3.5	5.8	13	10
40080606	6	105	15.5	9.9	3.6	6	15	10
40080707	7	110	17	11.3	3.9	6	20	10
40080808	8	115	18	12.4	4.2	7	21	10
40080909	9	120	21	13.4	4.5	7	27	10
40081010	10	125	23	14.8	4.8	7	35	10
40081111	11	135	26	16.4	4.8	8	43	10
40081212	12	140	28	17.8	5.3	8.5	46	10
40081313	13	160	30	19.1	5.3	8.5	57	10
40081414	14	165	32	20.6	5.3	8.5	68	10
40081515	15	170	35	21.9	5.3	8.5	73	10
40081616	16	180	36	23.2	5.8	10	89	10
40081717	17	190	38	24.6	5.8	10	99	10
40081818	18	200	40	26	6.7	11.5	126	10
40081919	19	230	42	27.5	6.7	11.5	142	10
40082020	20	230	45	29	7	13	176	10
40082121	21	260	47	30.3	7.3	13	216	10
40082222	22	260	49	31.8	7.3	13	220	10
40082323	23	280	53	33.5	7.8	14	251	5
40082424	24	280	53	34.9	7.8	14	254	5
40082525	25	300	55	36.3	8.4	14.5	281	5
40082626	26	300	57.5	37.8	8.4	14.5	315	5
40082727	27	300	60	39.2	8.4	14.5	345	5
40082828	28	320	62	40.6	8.4	14.5	368	5
40082929	29	330	64	41.9	8.9	16	420	5
40083030	30	330	66	43.2	8.9	16	404	5
40083232	32	360	70	45.8	9.4	16.5	484	5
40083333	33*	450	75	46.6	9.4	17	612	1
40083434	34	450	80	48	9.4	17	683	1
40083535	35*	460	80	49.6	10	18	788	1
40083636	36	460	88	50.8	10	18	787	1
40083838	38	480	87	53.6	11	19	915	1
40084141	41	480	88	57.8	11	19	1055	1
40084646	46	500	94.5	65.2	13	20	1352	1
40085050	50	530	103	73	14	21	1804	1
40085555	55	560	114	81	15	22	2193	1
40086060	60	590	125	89.8	16	24	2925	1

* to be discontinued

13a Combination spanners OPEN-BOX

Code	Ø "	L mm	b mm	d mm	a ₁ mm	a ₂ mm	⚖ g	
40 48 12 12	3/16	95	14	9.8	3	3.2	10	5
40 48 13 13	13/64	95	14	9.8	3	3.2	10	5
40 48 14 14	7/32	95	14	9.8	3	3.2	10	5
40 48 15 15	15/64	95	14	9.8	3	3.2	9	5
40 48 16 16	1/4	105	15.5	10.2	3.6	6	14	10
40 48 18 18	9/32	110	17	11.3	3.9	6	17	10
40 48 20 20	5/16	115	18	12.4	4.2	7	20	10
40 48 22 22	11/32	120	21	13.4	4.5	7	26	10
40 48 24 24	3/8	125	23	14.3	4.8	7	32	10
40 48 28 28	7/16	135	26	16.4	4.8	8	41	10
40 48 32 32	1/2	160	30	18.8	5.3	8.5	57	10
40 48 34 34	9/16	165	32	20.6	5.3	8.5	68	10
40 48 35 35	19/32	170	35	21.9	5.3	8.5	74	10
40 48 36 36	5/8	180	37	23.2	5.8	10	88	10
40 48 38 38	11/16	200	40	25.3	6.7	11.5	116	10
40 48 40 40	3/4	230	42	27.5	6.7	11.5	144	10
40 48 41 41	25/32	235	45	29	7	13	175	5
40 48 42 42	13/16	260	47	30	7.3	13	204	5
40 48 44 44	7/8	260	49	31.8	7.3	13	217	5
40 48 46 46	15/16	280	53	34.9	7.8	14	255	5
40 48 48 48	1	300	55	37.2	8.4	14.5	286	5
40 48 50 50	1 1/16	300	60	39.2	8.4	14.5	327	5
40 48 52 52	1 1/8	330	64	41.4	8.9	16	380	5
40 48 54 54	1 3/16	335	66	43.2	8.9	16.5	398	1
40 48 56 56	1 1/4	360	70	45.8	9.4	16.5	504	5
40 48 58 58	1 5/16	450	74	47	9.6	17	617	1
40 48 60 60	1 3/8	460	80	49.3	10	18	796	1
40 48 62 62	1 7/16	460	80	51.4	10	18	770	1
40 48 64 64	1 1/2	480	87	53.6	11	19	961	1
40 48 66 66	1 5/8	480	88	58	11	19	1021	1
40 48 69 69	1 13/16	500	94.5	65.3	13	20	1343	1
40 48 70 70	1 7/8	530	103	68.4	14	21	1779	1
40 48 72 72	2	530	103	74	14	21	1817	1



Sets: Combination spanners OPEN-BOX

Code	No	Content mm/"	⚖ g
96 40 08 13	13/6 ¹⁾	7; 8; 10; 13; 17; 19	457
96 40 08 01	13/9	9; 10; 11; 12; 13; 14; 17; 19; 22	758
96 40 08 14	13/9N ²⁾	7; 8; 10; 11; 13; 17; 19; 22; 24	1002
96 40 08 08	13/10KT ¹⁾	8; 9; 10; 11; 12; 13; 14; 15; 17; 19	746
96 40 08 02	13/11	8; 9; 10; 11; 12; 13; 14; 15; 17; 19; 22	915
96 40 08 15	13/13 ²⁾	7; 8; 9; 10; 11; 12; 13; 14; 15; 17; 19; 22; 24	1282
96 40 08 03	13/15	6; 7; 8; 9; 10; 11; 12; 13; 17; 19; 22; 24; 27; 30; 32	2236
96 40 08 16	13/16 ²⁾	7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24	1620
96 40 08 04	13/17	6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22	1493
96 40 08 05	13/26 ²⁾	6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 29; 30; 32	4705
96 40 48 03	13a/8	7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8	959
96 40 48 12	13a/10KT ¹⁾	1/4; 9/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4	750
96 40 48 04	13a/20 ²⁾	1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8; 15/16; 1; 1 1/16; 1 1/8; 1 1/4	3127

Standard packing: clear view wallet.

(Coloured plastic-wallets: page 60)

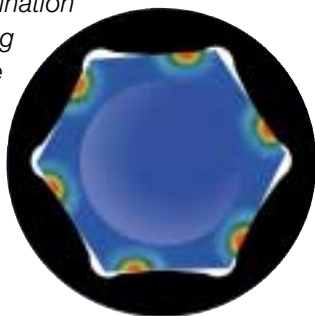
¹⁾ carton with clear view cover

²⁾ packed in carton

³⁾ in convenient clip holder

STAHLWILLE's AS Drive

The rings of STAHLWILLE combination spanners and double ended ring spanners are equipped with the AS Drive* profile: this permits high transmission of forces to the lands of nuts and bolts without damaging them. No longer will you have to worry about stripping the corners off nuts and bolts.



*Anti-Slip-Drive

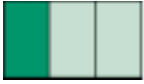
ES 13/10, 6-15 mm



175 x 350 x 40 mm, 10 pieces

Code	⚖ g
96 83 81 27	525
No 13	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15 mm
83 81 20 23 Empty tray	105

ES 13/8, 16-24 mm



175 x 350 x 54 mm, 8 pieces

Code	g
96838128	1440
No 13	sizes 16; 17; 18; 19; 20; 21; 22; 24 mm
83 81 20 24	Empty tray
	112

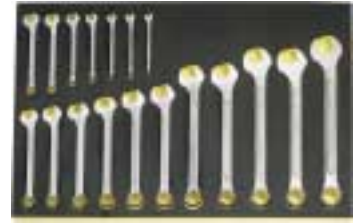
ES 13/5, 27-32 mm



530 x 350 x 30 mm, 5 pieces

Code	g
96838104	2280
No 13	sizes 27; 28; 29; 30; 32 mm
83 81 20 40	Empty tray
	287

TCS 13/18, 6-24 mm



530 x 350 x 35 mm, 18 pieces

Code	g
96838183	1850
No 13	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24 mm

TCS 13/17, 6-24 mm



350 x 350 x 60 mm, 17 pieces

Code	g
96830164	1615
No 13	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24 mm

TCS 13/21, 6-34 mm



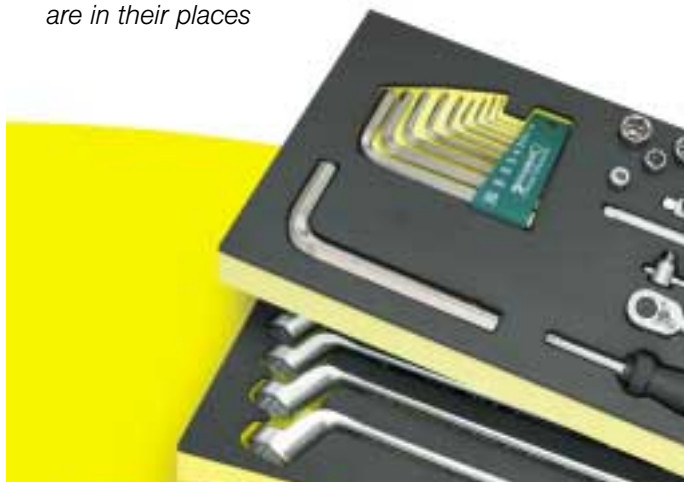
530 x 350 x 75 mm, 21 pieces

Code	g
96830174	3571
No 13	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32; 34 mm



Tool Control System
The safety inlay system

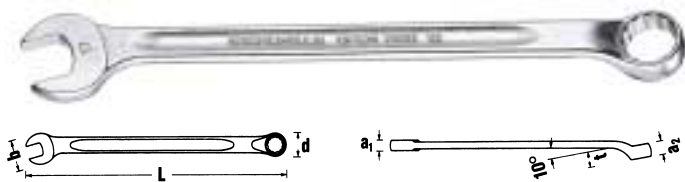
- Designed to fit our Tool Trolleys and Tool Boxes
- With yellow signal cut-outs to show whether all tools are in their places



14 Combination spanners OPEN-BOX, long

AS-drive

DIN 3113 form B/ ISO 7738 form B,
Chrome Alloy Steel, chrome plated.

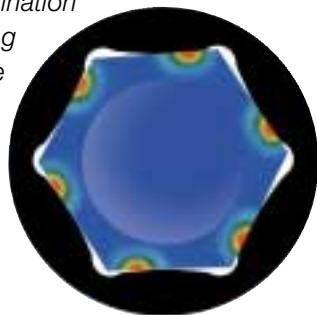


Code	Ø	L	b	d	a ₁	a ₂	t	△	△
	mm	mm	mm	mm	mm	mm	mm	g	g
40 100606	6	125	14	9.5	4.5	6	7	18	10
40 100707	7	135	16	10.8	5	7	8	25	10
40 100808	8	145	17.5	12.1	5	7	8	28	10
40 100909	9	155	19	13.3	5.5	8	9	34	10
40 101010	10	165	21	14.6	5.5	8	9	43	10
40 101111	11	180	23.5	15.9	6	9	10	55	10
40 101212	12	180	25.5	17.3	6	9	10	61	10
40 101313	13	195	27.5	18.6	6.5	10	11	83	10
40 101414	14	210	29.5	20.1	6.5	10	11	88	10
40 101515	15	215	31	21.4	7	11	13	109	10
40 101616	16	230	33	22.7	7	11	14	108	10
40 101717	17	240	35	24.1	7.5	12	15	151	10
40 101818	18	255	37	25.5	7.5	12	16	151	10
40 101919	19	265	39.5	27	8	13	18	190	10
40 102020	20	280	41.5	28.5	8	13	19	219	10
40 102121	21	280	43	29.8	8.5	13	19	244	10
40 102222	22	300	45	31.3	8.5	14	20	268	10
40 102323	23*	330	48	32.9	9.5	14	22	343	5
40 102424	24	330	50	34.3	9.5	14	22	363	5
40 102525	25*	360	53	35.7	10	15	23	419	5
40 102626	26*	360	53	37.2	10	15	23	426	5
40 102727	27	385	56	38.6	10.5	16	24	502	5
40 102828	28*	400	59	40	11	16	25	539	5
40 103030	30	415	63	42.6	12	18	26	645	5
40 103232	32	430	67	45.2	12	18	27	666	5
40 103434	34	460	72	48	13	18	27	900	1
40 103636	36	480	74	50.8	13	19	28	951	1
40 104141	41	560	84	57.8	14	20	32	1322	1

* to be discontinued

STHLWILLE's AS Drive

The rings of STHLWILLE combination spanners and double ended ring spanners are equipped with the AS Drive* profile: this permits high transmission of forces to the lands of nuts and bolts without damaging them. No longer will you have to worry about stripping the corners off nuts and bolts.



*Anti-Slip-Drive



Sets: Combination spanners OPEN-BOX, long

Code	No	Content mm	△
			g
9640 1008	14/6 ¹⁾	10; 13; 17; 19; 22; 24	1175
9640 1009	14/9 ²⁾	10; 11; 13; 17; 19; 22; 24; 27; 30	2395
9640 1007	14/10 KT ¹⁾	8; 10; 11; 12; 13; 14; 16; 17; 18; 19	1200
9640 1006	14/11	8; 9; 10; 11; 12; 13; 14; 15; 17; 19; 22	1465
9640 1004	14/15	6; 7; 8; 9; 10; 11; 12; 13; 17; 19; 22; 24; 27; 30; 32	3400
9640 1010	14/15N ²⁾	10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30	3165
9640 1005	14/17	6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22	1874

Standard packing: clear view wallet

¹⁾ packed in plastic with transparent cover

²⁾ packed in carton

ES 14/10, 6-15 mm



175 x 350 x 39 mm, 10 pieces

Code	△
	g
9683 8105	700
No 14	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15 mm
83 81 20 34	Empty tray 110

ES 14/8, 16-24 mm



175 x 350 x 51 mm, 8 pieces

Code	△
	g
9683 8106	1820
No 14	sizes 16; 17; 18; 19; 20; 21; 22; 24 mm
83 81 20 35	Empty tray 112

TCS 14/5, 17-21 mm



175 x 350 x 30 mm, 5 pieces

Code	Δ
	g
96838188	1065
No 14	sizes 17; 18; 19; 20; 21 mm

TCS 14/8, 8-16 mm



175 x 350 x 35 mm, 8 pieces

Code	Δ
	g
96838189	660
No 14	sizes 8; 10; 11; 12; 13; 14; 15; 16 mm

SoftGRIP®



Gentle

The jaw points are convex. This means that the spanner applies tangential force on the sides of screws and nuts instead of on the corners. Hexagons remain hexagons.

Efficient

The sculptured jaw provides an extra grip on screws and nuts. The spanner has up to 25% more static load capacity and 40% more permanent load capacity than standard spanners.

Time-saving

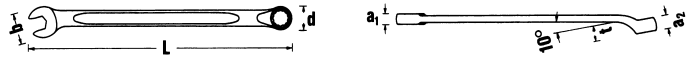
The convex jaw ends allow for easy placement of the spanner on the screw or nut. A great time-saver especially in confined spaces.

15 Combination spanners OPEN-BOX



SoftGRIP®

registered design, long, DIN 3113 form B/ISO 7738 form B, Chrome Alloy Steel, chrome plated.



Code	Ø	L	b	d	a ₁	a ₂	t	Δ	g	box
	mm	mm	mm	mm	mm	mm	mm			
40110606	6	125	14	9.5	4.5	6	7	18	10	
40110707	7	135	16	10.8	5	7	8	25	10	
40110808	8	145	17.5	12.1	5	7	8	30	10	
40110909	9	155	19	13.3	5.5	8	9	34	10	
40111010	10	165	21	14.6	5.5	8	9	45	10	
40111111	11	180	23.5	15.9	6	9	10	55	10	
40111212	12	180	25.5	17.3	6	9	10	60	10	
40111313	13	195	27.5	18.6	6.5	10	11	80	10	
40111414	14	210	29.5	20.1	6.5	10	11	85	10	
40111515	15	215	31	21.4	7	11	13	109	10	
40111616	16	230	33	22.7	7	11	14	120	10	
40111717	17	240	35	24.1	7.5	12	15	150	10	
40111818	18	255	37	25.5	7.5	12	16	160	10	
40111919	19	265	39.5	27	8	13	18	200	10	
40112121	21	280	43	29.8	8.5	13	19	244	10	
40112222	22	300	45	31.3	8.5	14	20	268	10	
40112424	24	330	50	34.3	9.5	14	22	363	5	
40112727	27	385	56	38.6	10.5	16	24	502	5	
40113030	30	415	63	42.6	12	18	26	625	5	
40113232	32	430	67	45.2	12	18	27	666	5	
40113434	34	460	72	48	13	18	27	900	1	

15/10KT Set: Combination spanners OPEN-BOX; 8-19 mm



SoftGRIP®

registered design, long.



Code	Content mm	Δ
		g
96401101	8; 10; 11; 12; 13; 14; 16; 17; 18; 19	1235

Packed in plastic with transparent cover.

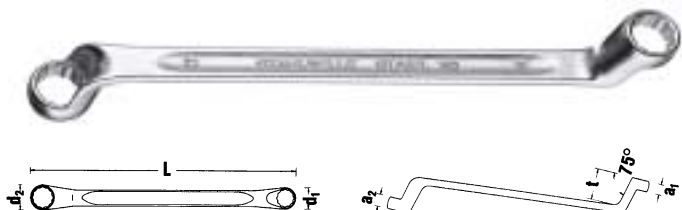


20 Double ended ring spanners

AS-drive

StahlwilleSTABIL®

offset, DIN 838/ISO 10104 (metric sizes),
Chrome Alloy Steel, chrome plated.



Code	Size mm	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	t mm	Weight g	Icon
41 04 06 07	6 x 7	165	10.5	11.8	6	7	18	46	10
41 04 07 08	7 x 8*	180	11.8	13.1	7	7	20	60	10
41 04 08 09	8 x 9	180	13.1	14.5	7	8	20	62	10
41 04 08 10	8 x 10	180	13.1	15.8	7	9	21	61	10
41 04 10 11	10 x 11	200	15.8	17.2	9	9	23	93	10
41 04 10 12	10 x 12*	220	15.8	19.2	9	10	25	131	10
41 04 10 13	10 x 13	220	15.8	20	9	10	25	122	10
41 04 12 13	12 x 13	220	18.6	20	9	10	25	126	10
41 04 12 14	12 x 14*	220	20	21.3	9	10	25	134	10
41 04 13 15	13 x 15*	245	20	22.6	10	12	27	163	10
41 04 13 16	13 x 16*	245	20	23.9	10	11	27	164	10
41 04 13 17	13 x 17	245	20	25.3	10	12	27	169	10
41 04 14 15	14 x 15	245	21.3	22.6	10	12	27	163	10
41 04 14 17	14 x 17*	245	21.3	25.3	10	12	27	165	10
41 04 16 17	16 x 17	255	23.9	25.3	11	12	27	181	10
41 04 16 18	16 x 18*	270	23.9	26.6	11	12	29	190	10
41 04 17 19	17 x 19	270	25.3	28	12	13	29	220	10
41 04 18 19	18 x 19	275	26.6	28	12	13	29	228	10
41 04 18 21	18 x 21	300	26.6	30.7	12	13	31	279	10
41 04 19 22	19 x 22	300	28	32.1	13	14	31	315	10
41 04 20 22	20 x 22	300	29.4	32.1	13	14	31	317	5
41 04 21 23	21 x 23	315	30.7	33.4	13	14	31	312	5
41 04 21 24	21 x 24	330	30.7	34.7	13	14	34	384	5
41 04 22 24	22 x 24	330	32.1	34.7	14	14	34	368	5
41 04 24 26	24 x 26	330	34.7	37.3	14	15	34	427	5
41 04 24 27	24 x 27	330	34.7	38.6	14	15	34	447	5
41 04 25 28	25 x 28	350	36	40	14	15	34	414	5
41 04 27 30	27 x 30	360	38.3	42.6	15	15	37	595	5
41 04 27 32	27 x 32	360	39.3	47.2	15	16	37	596	5
41 04 30 32	30 x 32	365	42.6	45.4	15	16	37	603	5
41 04 30 34	30 x 34	365	42.6	48	15	16	37	670	1
41 04 34 36	34 x 36*	400	48	51	16	17	38	750	1
41 04 36 41	36 x 41	440	53	60	17	18	40	1063	1
41 04 41 46	41 x 46*	485	60	68	18	19	42	1500	1
41 04 46 50	46 x 50	535	65.2	73	19	20	45	1709	1

* to be discontinued

20a Double ended ring spanners

Code	Size "	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	t mm	Weight g	Icon
41 44 16 20	1/4 x 5/16	180	11.8	13.1	7	7	20	61	10
41 44 24 28	3/8 x 7/16	200	15.8	17.2	9	9	23	88	10
41 44 32 34	1/2 x 9/16	220	20	21.3	9	10	25	131	10
41 44 34 36	5/16 x 5/8	245	21.3	25.3	10	12	27	168	10
41 44 35 38	19/32 x 11/16	255	23.9	25.3	11	12	27	177	10
41 44 36 40	5/8 x 3/4	270	23.9	28	12	13	29	235	10
41 44 38 42	11/16 x 13/16	300	25.3	30.7	12	13	31	280	5
41 44 40 44	3/4 x 7/8	300	28	32.1	13	14	31	299	5
41 44 41 42	25/32 x 13/16	300	29.4	32.1	13	14	31	333	5
41 44 44 46	7/8 x 15/16	330	32.1	34.7	14	14	34	363	5
41 44 46 48	15/16 x 1	330	34.7	37.3	14	15	34	419	5
41 44 52 58	1 1/8 x 1 5/16	365	42.6	45.4	15	16	37	581	1
41 44 58 64	1 3/16 x 1 1/2	440	53	60	17	18	40	1076	1



Sets: Double ended ring spanners

StahlwilleSTABIL®

offset.

Code	No	Content mm/"	Weight g
96 41 04 08	20/7N	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19	930
96 41 04 05	20/8	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22	1291
96 41 04 09	20/9	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24	1650
96 41 04 07	20/10	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32	2331
96 41 04 06	20/12	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 25 x 28; 30 x 32	3137
96 41 44 02	20a/6	1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16; 5/8 x 3/4; 11/16 x 15/16; 7/8 x 15/16	1244
96 41 44 05	20a/10	1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16; 5/8 x 3/4; 19/32 x 11/16; 5/8 x 3/4; 11/16 x 13/16; 3/4 x 7/8; 25/32 x 13/16; 7/8 x 15/16	2260

Standard packing: carton.

(Coloured plastic-wallets: page 60)

ES 20/8, 6x7-19x22 mm



175 x 350 x 30 mm, 8 pieces

Code	Weight g
96 83 81 67	1266
83 81 20 83	103



No 20

sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13;
14 x 15; 16 x 17; 18 x 21;
19 x 22 mm

ES 20/10, 6x7-30x32 mm



530 x 350 x 44 mm, 10 pieces

Code	g
96838107	2620

No 20	sizes
	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32 mm

83 81 20 44	Empty tray	309
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TCS 20/8, 6x7-19x22 mm



175 x 350 x 45 mm, 8 pieces

Code	g
96838192	1300

No 20	sizes
	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22 mm

TCS 20/10, 6x7-30x32 mm



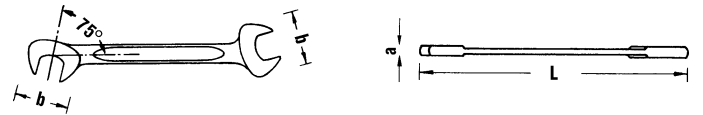
350 x 350 x 45 mm, 10 pieces

Code	g
96830166	2450

No 20	sizes
	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22; 24 x 27; 30 x 32 mm

12 Small double open ended spanners ELECTRIC

Chrome Alloy Steel, chrome plated.



Code	mm	L mm	b mm	a mm	g	
40063232	3.2	70	10.5	2	5	10
40063535	3.5	70	10.5	2	5	10
40060404	4	70	10.5	2	5	10
40064545	4.5	70	10.5	2	5	10
40060505	5	78	12.6	2	7	10
40065555	5.5	78	12.6	2	7	10
40060606	6	78	12.6	2	6	10
40060707	7	91	14.7	2	9	10
40060808	8	96	16.8	3	16	10
40060909	9	103	18.9	3	19	10
40061010	10	105	21	3	22	10
40061111	11	116	24.2	3	27	10
40061212	12	116	24.2	3	27	10
40061313	13	131	28.3	3	37	10
40061414	14	131	28.3	3	36	10

12a Small double open ended spanners ELECTRIC

Code	"	L mm	b mm	a mm	g	
40461010	5/32	70	10.5	2	5	10
40461212	3/16	70	10.5	2	5	10
40461313	13/64	78	12.6	2	7	10
40461414	7/32	78	12.6	2	6	10
40461515	15/64	78	12.6	2	6	10
40461616	1/4	91	14.7	2	9	10
40461818	9/32	91	14.7	2	9	10
40462020	5/16	96	16.8	3	16	10
40462222	11/32	103	18.9	3	19	10
40462424	3/8	105	21	3	22	10
40462828	7/16	116	24.2	3	28	10
40463232	1/2	131	28.3	3	37	10
40463434	9/16	131	28.3	3	36	10



Sets: Small double open ended spanners ELECTRIC

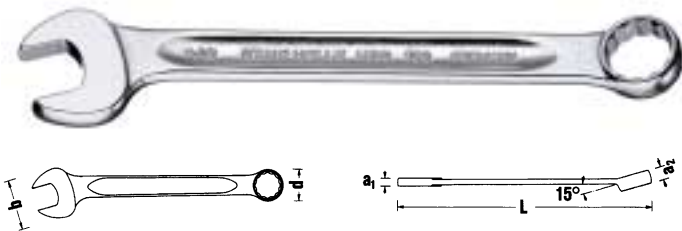
Code	No	Content mm/"	g
96400653	12/10Pc	4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11	161
96400651	12/15Pc	3.2; 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14	296
96404654	12a/13Pc	5/32; 3/16; 13/64; 7/32; 15/64; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16	270

Pc: in plastic-wallet

130a Combination spanners

AS-drive HPQ

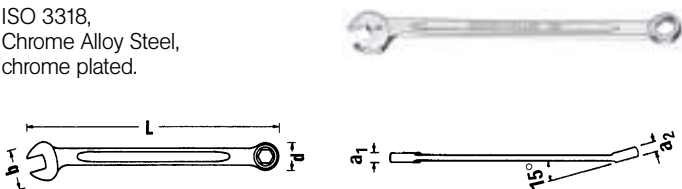
Fed. Spec. GGG-W-636 E, HPQ high performance steel, chrome plated.



Code	"	L mm	b mm	d mm	a ₁ mm	a ₂ mm	△	g	Box
40 57 16 16	1/4	105	14.2	9.8	3.6	6	13	10	
40 57 18 18	9/32	110	15.5	10.9	4.1	6	16	10	
40 57 20 20	5/16	115	17	12	4.5	7	20	10	
40 57 22 22	11/32	120	19	13.1	4.9	7	25	10	
40 57 24 24	3/8	125	20.5	14.1	5.2	7	32	10	
40 57 28 28	7/16	135	23	16.2	6	8	42	10	
40 57 32 32	1/2	150	27	18.2	6.5	8.5	61	10	
40 57 34 34	9/16	165	30.5	20.6	7	8.5	78	10	

16 Combination spanners OPEN-BOX

ISO 3318, Chrome Alloy Steel, chrome plated.



Code	mm	L mm	b mm	d mm	a ₁ mm	a ₂ mm	△	g	Box
40 09 32 32	3.2	75	10	6.6	3	3.2	6	10	
40 09 35 35	3.5	75	10	6.6	3	3.2	6	10	
40 09 40 40	4	85	12.5	7.8	3	3.2	9	10	
40 09 45 45	4.5	85	12.5	7.8	3	3.2	8	10	
40 09 50 50	5	95	14	9.8	3	3.2	11	10	

16/5Pc Set: Combination spanners OPEN-BOX; 3.2-5 mm



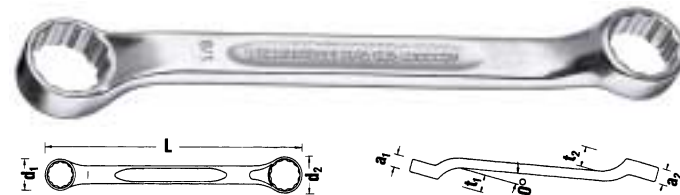
Code	Content mm	△	g
96 40 09 02	3.2; 3.5; 4; 4.5; 5		46

Pc: in green plastic-wallet

180a Double ended ring spanners

AS-drive HPQ

short, shallow offset, Fed. Spec. GGG-W-636 E, S.B.A.C Tech. Spec. T.S. 48 up to size 1/2", HPQ high performance steel, chrome plated.

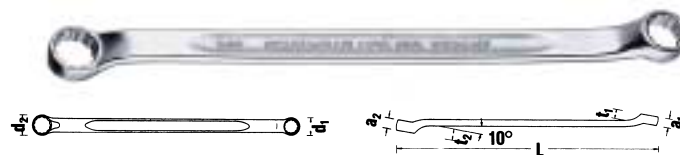


Code	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	t ₁ mm	t ₂ mm	△	g	Box
41 60 16 20	1/4 x 5/16	107	10.2	11.8	7	8	7.2	7.4	26	10	
41 60 24 28	3/8 x 7/16	121	14.6	16.7	6.7	7.8	9	10	42	10	
41 60 32 34	1/2 x 9/16	140	18.5	20.7	8.7	9.5	11	12	62	10	
41 60 34 36	9/16 x 5/8	148	20.7	22.6	9.5	10.5	11.5	12.5	87	10	

230a Double ended ring spanners

AS-drive HPQ

shallow offset, SAE AS 954 (dimensions and test loads); Fed. Spec. GGG-W-636E, S.B.A.C. Techn. Spec. T.S. 48 up to size 1/2", HPQ high performance steel, chrome plated.



Code	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	t ₁ mm	t ₂ mm	△	g	Box
41 61 16 20	1/4 x 5/16	180	10.2	11.9	5.2	6	7.9	8.8	36	10	
41 61 20 22	5/16 x 11/32	195	11.9	13.5	7	8	8	9	45	10	
41 61 20 24	5/16 x 3/8	195	11.9	14.6	6	7.9	10.8	12.4	54	10	
41 61 24 28	3/8 x 7/16	215	14.6	16.7	7.9	8.7	11.4	11.7	74	10	
41 61 28 32	7/16 x 1/2	225	16.7	19.5	8.7	9.1	11.9	12.6	105	10	
41 61 32 34	1/2 x 9/16	235	19.5	20.7	9.1	9.5	12.2	12.9	119	10	
41 61 34 36	9/16 x 5/8	245	20.7	22.6	9.5	11.5	13.8	13.9	122	10	
41 61 36 40	5/8 x 3/4	274	22.6	27.5	11.1	12	14.8	15.8	156	10	
41 61 38 40	11/16 x 3/4	275	25.4	27.5	11.1	12	15.2	15.8	158	10	
41 61 42 44	13/16 x 7/8	301	29.5	31.7	13.5	14.5	19	20	175	5	
41 61 46 48	15/16 x 1	340	34.1	36.5	14.5	15	22	23	375	5	
41 61 48 50	1 x 1 1/16	368	36.5	38.6	15	16	23	24	460	5	
41 61 52 56	1 1/8 x 1 1/4	403	40.8	45	16	18	25	27	620	5	

STAHLWILLE's HPQ spanners

STAHLWILLE HPQ* spanners are manufactured from selected tough steel alloys.

The result: extremely high load capacity with exceptionally thin rings. HPQ spanners are free of cadmium and are therefore suitable for use on titanium alloy parts and titanium fasteners as used e.g. in the aerospace industry, where safety is a crucial factor.

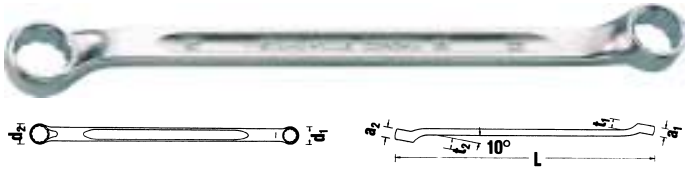
*High Performance Quality



23 Double ended ring spanners



shallow offset, DIN 897/ISO 10104 (metric sizes),
Chrome Alloy Steel, chrome plated.



Code	Size mm	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	t ₁ mm	t ₂ mm	△△ g	
41070607	6 x 7	170	9.5	10.8	6	7	7	8	41	10
41070809	8 x 9	179	12.1	13.3	7	8	8	9	49	10
41071011	10 x 11	188	14.6	15.9	8.5	9.5	9	10	66	10
41071213	12 x 13	203	17.3	18.6	9.5	10.5	10	11	95	10
41071415	14 x 15	219	20.1	21.4	10.5	11.5	11	13	109	10
41071617	16 x 17	248	22.7	24.1	11.5	12.5	14	15	144	10
41071618	16 x 18*	250	22.7	25.5	11	12	15	16	146	10
41071719	17 x 19	250	24.1	27	12.5	13.5	15	18	162	10
41071819	18 x 19	251	25.5	27	12.5	13.5	16	18	157	10
41072022	20 x 22	280	28.5	31.3	13.5	14.5	19	20	223	5
41072123	21 x 23	328	29.8	32.9	13.5	14.5	19	22	281	5
41072427	24 x 27	376	34.3	38.6	14.5	16	22	24	426	5
41072732	27 x 32*	405	38.6	45.2	17	18	25	27	554	5
41073032	30 x 32	429	42.6	45.2	18	18	26	27	608	5

* to be discontinued

23/8 Set: Double ended ring spanners; 6x7-20x22 mm

shallow offset.



Code	Content mm	△△ g
96410704	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22	870

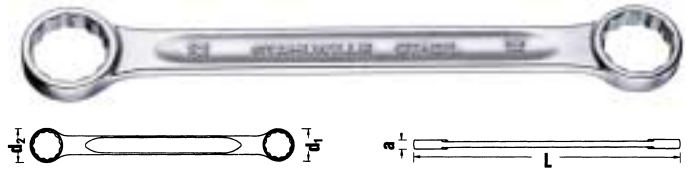
Standard packing: carton.
(Coloured plastic-wallets: page 60)

21 Double ended ring spanners



StahlwilleSTABIL®

straight, DIN 837/ISO 10103,
Chrome Alloy Steel, chrome plated.



Code	Size mm	L mm	d ₁ mm	d ₂ mm	a mm	△△ g	
41050607	6 x 7	100	9.6	11	4.5	14	10
41050809	8 x 9	115	12.5	14	5.5	19	10
41050810	8 x 10	115	12.5	15.4	6	18	10
41051011	10 x 11	130	15.4	16.6	6	28	10
41051213	12 x 13	150	18.2	19.5	6.5	42	10
41051316	13 x 16	170	19.5	24	7	54	10
41051317	13 x 17	170	19.5	25	8	57	10
41051415	14 x 15	165	21	22.5	7.5	55	10
41051617	16 x 17	170	23.8	25	8	68	10
41051618	16 x 18	185	23.8	26.3	8	74	10
41051719	17 x 19	185	25	27.6	8	78	10
41051819	18 x 19	185	26.3	27.6	9	84	10
41051821	18 x 21	210	26.3	30.5	9	107	5
41051922	19 x 22	210	27.6	32.4	9	109	5
41052022	20 x 22	210	29	32.4	9	109	5
41052124	21 x 24	235	30.5	34.7	10	128	5
41052427	24 x 27	290	34.7	38.5	11	225	5
41052732	27 x 32	320	38.5	45.5	12	283	5
41053032	30 x 32	325	43	45.5	12	289	5
41053034	30 x 34	325	43	48.5	12	307	5

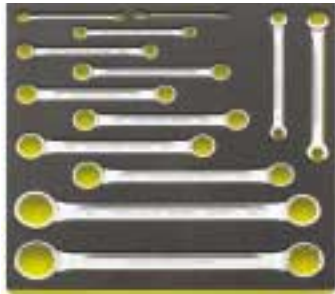
Sets: Double ended ring spanners

Code	No	Content mm	△△ g
96410503	21/7	8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22	397
96410501	21/10	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32	943

Standard packing: carton
(Coloured plastic-wallets: page 60)



TCS 21+24/13



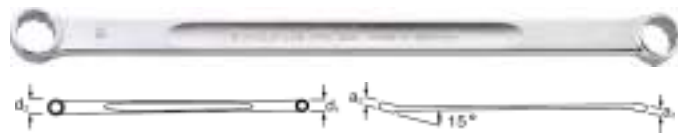
350 x 350 x 30 mm, 13 pieces

Code	g
96830165	1355
No 21	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24; 27 x 32; 30 x 34 mm
No 24	sizes 10 x 11; 12 x 14 mm

220 Double ended ring spanners



extra long, 15° angled, SAE AS 954-E (test loads) (American sizes), HPQ high performance steel, chrome plated.



Code	Size mm	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	g	Box
41 03 55 07	5.5x7	185	8.8	11	5.3	5.8	28	5
41 03 06 08	6x8	205	9.8	12.1	5.6	6	34	5
41 03 09 11	9x11	250	14.2	16.7	8	8.7	80	5
41 03 10 11	10x11	250	15.5	16.7	8	8.7	80	5
41 03 12 14	12x14	290	18.3	20.7	9.5	9.5	162	5
41 03 13 14	13x14	290	18.7	20.7	9.5	9.5	160	5
41 03 17 19	17x19	365	25	27.5	11	12	296	5
41 03 18 19	18x19	365	25.5	27.5	11	12	295	5
41 03 19 22	19x22	408	27.5	31.5	13	14.3	520	5
41 03 20 22	20x22	409	28.5	31.5	13	14.3	515	5

220a Double ended ring spanners

Code	Size"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	g	Box
41 43 14 16	7/32 x 1/4	184	9	9.9	5.3	5.8	29	5
41 43 16 20	1/4 x 5/16	205	9.9	12.2	5.6	6	33	5
41 43 24 28	3/8 x 7/16	250	14	16	8	8.7	79	5
41 43 32 34	1/2 x 9/16	290	18.5	21	9.5	9.5	160	5
41 43 36 40	5/8 x 3/4	363	22.6	27	11	12	298	5
41 43 38 40	11/16 x 3/4	365	25	27	11	12	291	5

220aSP Double ended ring spanners

extra long, with spline-drive profile, 15° angled, MS-33787, MIL-W-8982, HPQ high performance steel, chrome plated.



Code	Spline size	Size"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	g	Box
41 16 07 09	7x9	7/32x9/32	185	9.4	11.5	5.3	5.8	23	5
41 16 08 10	8x10	1/4x5/16	205	10.4	12.4	5.6	6	33	5
41 16 12 14	12x14	3/8x7/16	250	14.9	17	8	8.7	79	5
41 16 16 18	16x18	1/2x9/16	290	19	21	9.5	9.5	161	5
41 16 18 20	18x20	9/16x5/8	315	21	23	10	11	205	5
41 16 22 24	22x24	11/16x3/4	365	25	27.5	11	12	310	5
41 16 26 30	26x30	13/16x15/16	410	29.5	34	13	14.3	496	5
41 16 28 32	28x32	7/8x1	430	32	36.5	13.5	15	582	5

20TX Double ended ring spanners

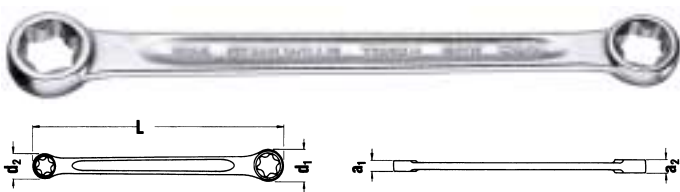
for external TORX® screws, offset, Chrome Alloy Steel, chrome plated.



Code	size	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	t mm	g	Box
41 24 06 07	E6 x E7	167	10.1	11.4	6	7	18	47	1
41 24 08 10	E8 x E10	178	12.6	14.1	7	8	20	55	1
41 24 11 12	E11 x E12	196	14.6	15.9	9	9	23	90	1
41 24 14 16	E14 x E16	218	17.4	18.8	9	10	25	132	1
41 24 18 20	E18 x E20	254	22.6	24.1	11	12	27	183	1
41 24 22 24	E22 x E24	298	25.3	29.5	12	13	31	293	1

21TX Double ended ring spanners

for external TORX® screws, straight, Chrome Alloy Steel, chrome plated.

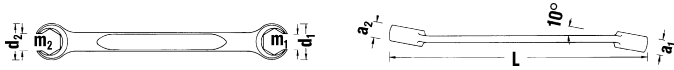



Code	size	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	g	Box
41 25 06 08	E6 x E8	115.5	9.6	11.6	4.5	5.5	17	10
41 25 10 12	E10 x E12	149.5	13.7	15.7	6.5	7.5	33	10
41 25 14 18	E14 x E18	185	17.8	22.5	8	9.5	71	10
41 25 20 24	E20 x E24	227	24.7	29.2	10.5	12.5	129	10

24  **Double ended open ring spanners, angled**


AS-drive

DIN 3118/ISO 3318 (metric sizes),
Chrome Alloy Steel, chrome plated.



Code	mm	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	m ₁ mm	m ₂ mm	g	
41080810	8 x 10	145	17.5	19.5	7	8.5	6.3	7.1	39	10
41080911	9 x 11	155	18.5	21.5	8.5	9	6.7	8.6	54	10
41081011	10 x 11	155	19.5	21.5	8.5	9	7.1	8.6	55	10
41081012	10 x 12	160	19.5	22.5	8.5	9.5	7.1	9	59	10
41081113	11 x 13	170	21.5	24	9	10	8.6	10	80	10
41081214	12 x 14	180	24	26	9.5	10.5	9	11	89	10

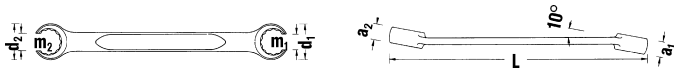
24a  **Double ended open ring spanners, angled**


Code	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	m ₁ mm	m ₂ mm	g	
41481620	1/4 x 5/16	105	16.5	18	5.5	7	3.7	5	32	10
41482024	5/16 x 3/8	145	17.5	19.5	7	8.5	6.3	7.1	39	10
41482428	3/8 x 7/16	155	19.5	21.5	8.5	9	7.1	8.6	57	10
41483234	1/2 x 9/16	180	24	26	9.5	10.5	9.5	11	87	10

24  **Double ended open ring spanners, angled**


AS-drive

DIN 3118/ISO 3318 (metric sizes),
Chrome Alloy Steel, chrome plated.

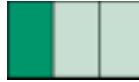


Code	mm	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	m ₁ mm	m ₂ mm	g	
41081417	14 x 17	200	26	30	10.5	12	11	14	115	10
41081619	16 x 19	220	29	33	12	13	13	15.8	155	5
41081719	17 x 19	220	30	33	12	13	14	15.8	151	10
41081821	18 x 21	230	31.5	35.5	13	13.5	14.8	16.2	182	5
41081922	19 x 22	230	33	37	13	15	15.8	17	192	5
41082224	22 x 24	245	37	40.5	15	16	17	18	251	5
41082427	24 x 27	270	40.5	44.5	16	17.5	18	20	310	5
41082736	27 x 36	300	42	54	16	19	20	27	414	5
41083032	30 x 32	300	48.5	50.5	20	22	22	24	455	5


24a  **Double ended open ring spanners, angled**

Code	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	m ₁ mm	m ₂ mm	g	
41483640	5/8 x 3/4	220	29	33	12	13	12.7	15.8	148	5
41484048	3/4 x 1	235	33	40.2	13	16	15.8	19	199	5
41484452	7/8 x 1 1/8	250	37	44.4	15	17.5	17.5	21	253	5

ES 24/7, 8x10-19x22 mm




175 x 350 x 30 mm, 7 pieces

Code	g
96838171	835
 No 24	sizes 8 x 10; 10 x 11; 11 x 13; 12 x 14; 14 x 17; 17 x 19; 19 x 22 mm
83 81 20 86	Empty tray 103

240  **Ratchet wrenches**

registered design, specially suitable for union nuts. Using a single wrench, it is possible to tighten/loosen both metric and imperial nuts and bolts. Made of hardened and tempered stainless steel.



Code	mm/"	L mm	b mm	a mm	g	
41100808	8 5/16	121.4	16	4	56	1
41101010	10 3/8	133.3	20	4	74	1
41101111	11 7/16	140.4	23	5	94	1
41101212	12 15/32	146.3	25	5	110	1
41101313	13 1/2	168.4	26.8	6	150	1
41101414	14 9/16	174.6	29.6	6	177	1
41101616	16 5/8	191.3	32.8	7	280	1
41101717	17 21/32	201.7	34.3	7	310	1
41101818	18 11/16	212.8	36.2	7	325	1
41101919	19 3/4	238.5	38.5	7	380	1

240/5  **Set: Ratchet wrenches 10 mm-3/8" - 19 mm-3/4"**

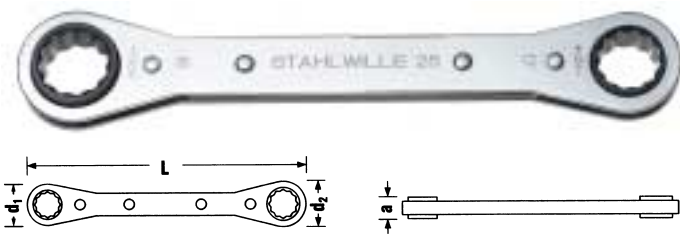


Code	Content mm/"	g
96411001	10 mm - 3/8"; 11 mm - 7/16"; 14 mm - 9/16"; 17 mm - 21/32"; 19 mm - 3/4"	1055

25 Ratchet ring spanners

AS-drive

with bi-hexagon, straight, Fed. Spec. GGG-W-001405 (American sizes), chrome plated.



Code	mm	L mm	d ₁ mm	d ₂ mm	a mm	△g	g	
41 13 07 08	7 x 8	109	15	17	9	55	1	
41 13 09 10	9 x 10	139	20	23	9	80	1	
41 13 10 11	10 x 11	170	26	30	12	144	1	
41 13 12 13	12 x 13	170	26	30	12	135	1	
41 13 14 15	14 x 15	170	26	30	12	126	1	
41 13 16 18	16 x 18	205	33	36	12	196	1	
41 13 17 19	17 x 19	205	33	36	12	188	1	
41 13 19 21	19 x 21	230	36	40	13	233	1	

25aN Ratchet ring spanners

as No 25, but made of solid steel.



Code	"	L mm	d ₁ mm	d ₂ mm	a mm	△g	g	
41 56 16 20	1/4 x 5/16	109	15	17	9	65	1	
41 56 20 22	5/16 x 11/32	109	15	17	9	60	1	
41 56 24 28	3/8 x 7/16	139	20	23	9	90	1	
41 56 32 34	1/2 x 9/16	174	26	30	12	164	1	
41 56 36 38	5/8 x 11/16	205	33	36	12	257	1	
41 56 40 44	3/4 x 7/8	235	36	40	13	296	1	
41 56 42 46	13/16 x 15/16	235	36	40	12	281	1	



Sets: Ratchet ring spanners

Code	No	Content mm/"	△g	g
9641 1302	25/4	9 x 10; 12 x 13; 14 x 15; 17 x 19	55	556
9641 1301	25/7Pc	7 x 8; 9 x 10; 10 x 11; 12 x 13; 14 x 15; 16 x 18; 17 x 19	80	1049
9641 5602	25a/4N	3/8 x 7/16; 1/2 x 9/16; 5/8 x 11/16; 3/4 x 7/8	90	1000
9641 5601	25a/7PcN	1/4 x 5/16; 5/16 x 11/32; 3/8 x 7/16; 1/2 x 9/16; 5/8 x 11/16; 3/4 x 7/8; 13/16 x 15/16	65	1271

Standard packing: clear view wallet.
Pc: in green plastic-wallet.

ES 25/7, 7x8-17x19 mm



175 x 350 x 30 mm, 7 pieces

Code	△g	g
9683 8108	80	1040
83 81 20 38	111	

No 25 sizes 7 x 8; 9 x 10; 10 x 11; 12 x 13; 14 x 15; 16 x 18; 17 x 19 mm

25LO Ratchet ring spanners

AS-drive

switchable, double ended hex, straight, with "Latch-on" anti-slip mechanism using rings with ridges, for nuts on stud bolts and screw heads, chrome plated.



Code	mm	L mm	d ₁ mm	d ₂ mm	a mm	△g	g	
41 15 07 08	7 x 8	109	15	17	9	75	1	
41 15 10 11	10 x 11	170	26	30	12	195	1	
41 15 12 13	12 x 13	170	26	30	12	185	1	
41 15 14 15	14 x 15	170	26	30	12	295	1	
41 15 16 18	16 x 18	205	33	36	12	270	1	
41 15 17 19	17 x 19	205	33	36	12	265	1	
41 15 21 22	21 x 22	230	36	40	13	305	1	

25TX Ratchet ring spanners

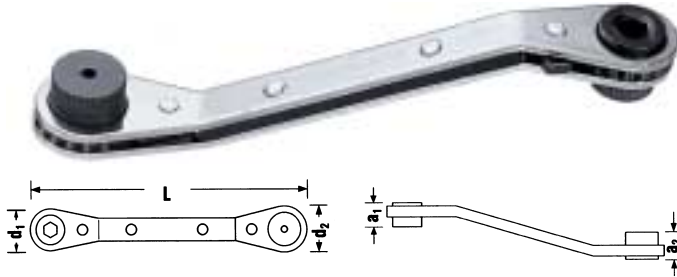
for external TORX® screws, straight, chrome plated.



Code	size	L mm	d ₁ mm	d ₂ mm	a mm	△g	g	
41 28 06 08	E 6 x E 8	110	15	17	9	65	1	
41 28 10 12	E 10 x E 12	140	20	22	9	85	1	
41 28 14 18	E 14 x E 18	174	26	29	12	130	1	
41 28 20 24	E 20 x E 24	235	36	40	12	235	1	

25B Ratcheting bit holder

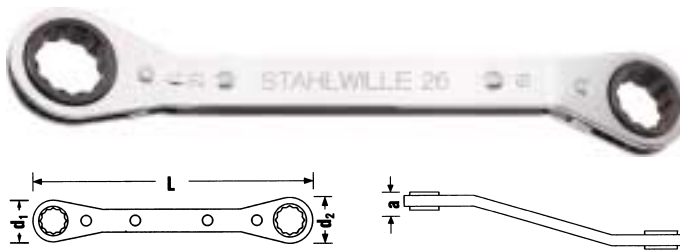
for hexagon bits, magnetic location, reversible heads angled, chrome plated.



Code	inside O"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	ΔΔ g	
4154 1620	1/4 x 5/16	138	20	23	15	17	105	1

26 Ratchet ring spanners

reversible, with bi-hexagon, angled, chrome plated.



Code	O mm	L mm	d ₁ mm	d ₂ mm	a mm	ΔΔ g	
41 140708	7 x 8	109	15	17	9	55	1
41 140910	9 x 10	139	20	23	9	80	1
41 141011	10 x 11	170	26	30	12	144	1
41 141213	12 x 13	170	26	30	12	135	1
41 141415	14 x 15	170	26	30	12	126	1
41 141618	16 x 18	205	33	36	12	196	1
41 141719	17 x 19	205	33	36	12	188	1
41 141921	19 x 21	230	36	40	13	233	1

26a Ratchet ring spanners

Code	O "	L mm	d ₁ mm	d ₂ mm	a mm	ΔΔ g	
4155 1620	1/4 x 5/16	109	15	17	9	55	1
4155 2428	3/8 x 7/16	139	20	23	9	80	1
4155 3234	1/2 x 9/16	170	26	30	12	126	1

27 Double ended ring spanners STARTER

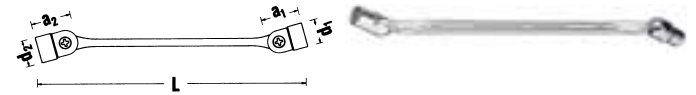
AS-drive
ISO 3318, Chrome Alloy Steel, chrome plated.



Code	O mm	L mm	d ₁ mm	d ₂ mm	a mm	r ₁ mm	r ₂ mm	ΔΔ g	
4109 1012	10 x 12	150	16.5	19.5	6.5	35	60	53	10
4109 1113	11 x 13	150	16.5	19.5	6.5	35	60	50	10
4109 1416	14 x 16	179	21	24.5	7.5	36	64	91	10
4109 1417	14 x 17	179	21	24.5	7.5	36	64	89	10
4109 1517	15 x 17	184	22.5	25	7.5	38	66	96	10
4109 1618	16 x 18	200	25.3	27.5	8.5	47	68	130	5
4109 1922	19 x 22	225	28	32	9	48	67	164	5

29 Double ended flexi-joint spanner FLEXI

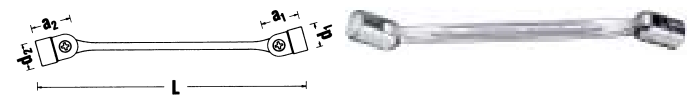
AS-drive
Chrome Alloy Steel, chrome plated.



Code	O mm	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	ΔΔ g	
4301 0607	6 x 7	180	9.5	11	23	23	51	10

29 Double ended flexi-joint spanners FLEXI

AS-drive
Chrome Alloy Steel, chrome plated.



Code	O mm	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	ΔΔ g	
4301 0809	8 x 9	201	11.9	13.4	26	27.5	81	10
4301 1011	10 x 11	202	14.7	15.9	30.5	32	102	10
4301 1013	10 x 13	230.5	14.7	18.4	30	33.5	137	10
4301 1213	12 x 13	228	17.2	18.4	33	33.5	153	10
4301 1317	13 x 17	249.5	18.4	23.7	33.5	39	201	10
4301 1415	14 x 15	227	19.7	20.9	35	37	197	10
4301 1617	16 x 17	247	22.2	23.7	38.5	39	243	10
4301 1618	16 x 18	249	22.2	24.7	38.5	40	267	10
4301 1719	17 x 19	250	23.7	26.3	39	41	277	5
4301 1819	18 x 19	246.5	24.7	26.3	40	41	294	5
4301 2022	20 x 22	287.5	27.3	29.8	45.5	48	430	5
4301 2123	21 x 23	286.5	28.6	31.1	46.5	50	447	5
4301 2427	24 x 27	349.5	32.4	36.1	50.5	60.5	716	5

29a Double ended flexi-joint spanners FLEXI

Code	O mm	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	ΔΔ g	
4341 2428	3/8 x 7/16	202	14	16	30.5	32	101	5
4341 3234	1/2 x 9/16	227	18.1	20	35	37	195	5
4341 3638	5/8 x 11/16	249.5	22.1	24	39	40	269	5

29/7

Set: Double ended flexi-joint spanners FLEXI; 8x9-20x22 mm



Code	Content mm	ΔΔ g
96430101	8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22	1503

Standard packing: carton.

ES 29/6, 8x9-18x19 mm



350 x 175 x 30 mm, 6 pieces

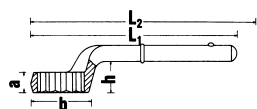
Code	ΔΔ g
96838109	1185

No 29 sizes 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19 mm

83 81 20 41 Empty tray 105

5 Heavy duty ring spanners

without tubular handle, Chrome Alloy Steel, chrome plated.



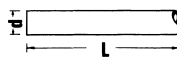
Code	mm	L ₁ mm	L ₂ mm	b mm	a mm	h mm	ΔΔ g	handle	box
42020024	24	180	555	38	17	29.5	381	5 1/2 - 1	1
42020027	27	190	560	41	17	31.5	421	1	1
42020030	30	200	565	47	18	33.5	503	1	1
42020032	32	235	730	49	18	34	712	2	1
42020036	36	245	735	54	20	35.5	816	2	1
42020038	38	250	740	56	21	37.5	810	2	1
42020041	41	265	750	62	22	39.5	910	2	1
42020042	42	265	750	62	22	39.5	919	2	1
42020046	46	280	910	69	23	40	1192	3	1
42020050	50	290	920	76	25.5	42.5	1426	3	1
42020055	55	300	925	81	28	45.5	1541	3	1
42020060	60	345	1050	90	30.5	49	2260	4	1
42020065	65	355	1060	98	33	53	2603	4	1
42020070	70	365	1065	105	35.5	55	2882	4	1
42020075	75	375	1070	110	38	57.6	3058	4	1
42020080	80	385	1075	125	40.5	59	3889	4	1
42020085	85	385	1075	125	40.5	59	3648	4	1
42020090	90	410	1100	140	45	63	5238	4	1
42020095	95	410	1100	140	45	63	4630	4	1
42020100	100	412	1100	143	45	63	4895	4	1

No 5a available on request

5 1/2

Tubular handles

for heavy duty ring spanners No 5.



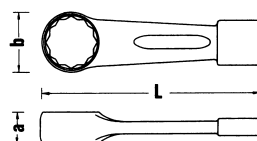
Code	size	L mm	d mm	mm	"	ΔΔ g	box
48030001	1	460	19	24-30	1-1 3/16	605	1
48030002	2	610	22	32-42	1 1/4 - 1 11/16	1562	1
48030003	3	760	25	46-56	1 3/4 - 2 1/4	2136	1
48030004	4	860	30	60-100	2 3/8 - 3 7/8	3705	1

8

Striking face ring spanners

StahlwilleSTABIL®

Chrome Alloy Steel, green painted.



Code	mm	L mm	b mm	a mm	ΔΔ g	box
42010032	32	195	47	24	661	1
42010036	36	195	52.4	26	684	1
42010041	41	200	59	29	896	1
42010046	46	250	65	32	1218	1
42010050	50	280	70	35	1555	1
42010055	55	300	76	38	2087	1
42010058	58	300	80.5	42	2488	1
42010060	60	300	82.5	42	2394	1
42010065	65	325	90.5	45	3209	1
42010070	70	355	97	48	3649	1
42010075	75	360	103.5	51	4428	1
42010080	80	440	110	57	5895	1
42010085	85	440	117	57	6033	1
42010090	90	445	124	60	6885	1
42010095	95	450	131	67	7875	1
42010100	100	455	137	72	10224	1
42010105	105	460	146	73	10202	1
42010110	110	500	156	82	14492	1
42010115	115	505	162	82	14376	1
42010120	120	510	174	82	15308	1

Additional spanner opening to DIN 7444 on request.

8a

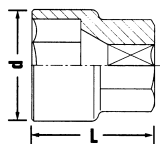
Striking face ring spanners

Code	"	L mm	b mm	a mm	ΔΔ g	box
42410056	1 1/4	195	46.6	24	656	1
42410058	1 5/16	195	48.5	24	651	1
42410062	1 7/16	195	53	26	689	1
42410064	1 1/2	200	55.6	29	879	1
42410066	1 5/8	200	59.3	29	905	1
42410067	1 11/16	250	61.3	32	1203	1
42410069	1 13/16	250	65.4	32	1258	1
42410070	1 7/8	280	67.1	35	1541	1
42410072	2	280	71.1	35	1576	1
42410073	2 1/16	300	73	38	2067	1
42410075	2 3/16	300	76.8	38	2050	1
42410076	2 1/4	300	78.8	42	2356	1
42410078	2 3/8	300	82.8	42	2297	1
42410079	2 7/16	325	85.5	45	3044	1
42410081	2 9/16	325	90.7	45	3047	1
42410082	2 5/8	355	92.9	48	3508	1
42410084	2 3/4	355	97.1	48	3531	1
42410085	2 13/16	360	99	51	4421	1
42410087	2 15/16	360	103.3	51	4238	1

2

61* Striking sockets

They may be extended by adding any number of similar Sockets, to reach deep seated bolts.
Equal inside and outside hexagons, Chrome Alloy Steel, chrome plated.

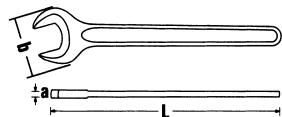


Code	Ø mm	L mm	d mm	Ø"	Δ g	☐
06030041	41	80	59	1	701	1
06030046	46	82	65	1	873	1
06030050	50	85	70	1	1096	1
06030055	55	90	76	1	1391	1
06030060	60	95	82.5	1	1673	1
06030065	65	100	90.5	1	2245	1
06030070	70	108	97	1	2925	1
06030075	75	112	103.5	1	3263	1
06030080	80	120	110	1	4010	1
07030085	85	127	117	1 1/2	4668	1
07030090	90	130	124	1 1/2	5503	1
07030105	105	155	146	1 1/2	9189	1

* to be discontinued

4004 Single-end spanners

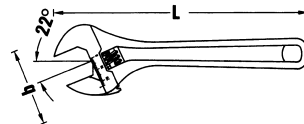
DIN 894, Special Tool Steel, grey finish.



Code	Ø mm	L mm	b mm	a mm	Δ g	☐
40040240	24	215	50	8.9	147	1
40040270	27	238	56	9.8	193	1
40040300	30	261	62	10.8	268	1
40040320	32	273	66	11.8	315	1
40040360	36	300	74	12.8	421	1
40040410	41	335	83.5	12.8	555	1
40040460	46	369	93	14.8	806	1
40040500	50	412	102	17	1003	1
40040550	55	457	112	18	1267	1
40040600	60	492	122	18	1680	1
40040650	65	528	132	19	2012	1
40040700	70	572	142	20	2532	1
40040750	75	608	152	21	2758	1
40040800	80	645	162	22	2963	1
40040850	85	690	173	23	3717	1
40040900	90	690	173	23	3570	1
40040950	95	847	195	25	5943	1

4025 Single-end spanners, adjustable

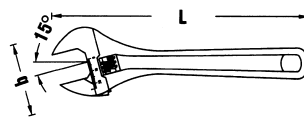
right-handed, DIN 3117/ISO 6787,
B shape, jaw offset 22°,
Chrome Vanadium, chrome plated.



Code	size	Ø max. mm	L mm	b mm	a mm	Δ g	☐
40250004	4	13	114	33	9.5	53	5
40250006	6	20	159	48	12	123	5
40250008	8	24	206	60	13.5	241	5
40250010	10	29	257	71	16	399	5
40250012	12	34	309	83	19	708	5
40250015	15	43	384	103	25	1287	1
40250018	18	53	460	120	30	2105	1

4026 Single-end spanners, adjustable

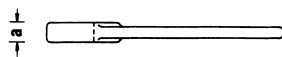
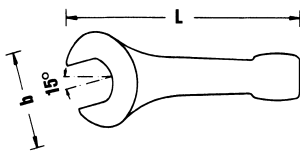
left-handed, DIN 3117/ISO 6787,
A shape, jaw offset 15°,
Chrome-Vanadium, gun finish.



Code	size	Ø max. mm	L mm	b mm	a mm	Δ g	☐
40260004	4	13	114	33	9.5	50	5
40260006	6	20	159	48	12	138	5
40260008	8	24	206	60	13.5	247	5
40260010	10	29	257	71	16	397	5
40260012	12	34	309	83	19	699	5
40260015	15	43	384	103	25	1324	1
40260018	18	53	460	120	30	2076	1

4204 Striking face open ended spanners

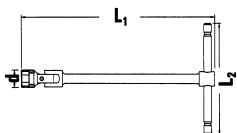
DIN 133, Special Tool Steel, grey finish.



Code	mm	L mm	b mm	a mm	g	
42040027	27	180	56	16	321	1
42040030	30	190	62	17	451	1
42040032	32	190	62	17	424	1
42040036	36	215	76	17.5	698	1
42040041	41	235	86	18.5	923	1
42040046	46	255	98	20	1347	1
42040050	50	275	105	21	1486	1
42040055	55	300	116	23	2057	1
42040060	60	320	128	24.5	2559	1
42040065	65	342	138	27	3418	1
42040070	70	375	154	30	4573	1
42040075	75	375	154	30	4163	1
42040080	80	408	174	34	6059	1
42040085	85	408	174	34	5871	1
42040090	90	445	194	38	7600	1
42040095	95	445	194	38	7600	1
42040100	100	485	215	44	11500	1
42040105	105	485	215	44	11200	1

4328* T-handle universal joint spanners

with hexagon. Movement of universal joint 130°. Chrome Alloy Steel, chrome plated.



Code	mm	L ₁ mm	L ₂ mm	b mm	g	
43280007	7	431	160	10.8	212	5
43280008	8	432	160	12	211	5
43280009	9	433	160	13	212	5
43280010	10	435	160	14.5	215	5
43280011	11	455.5	190	15.6	430	5
43280012	12	455.5	190	16.9	439	5
43280013	13	457	190	18	441	5
43280014	14	457	190	19.4	436	5
43280015	15	459	190	20.6	439	5
43280016	16	477.5	220	22.4	723	3
43280017	17	478.5	220	23.5	724	3
43280018	18	481	220	25	732	3
43280019	19	481	220	26.3	736	3
43280208	20.8 ¹⁾	507.5	220	27.5	765	3

¹⁾ with rubber inserts for sparks

* to be discontinued

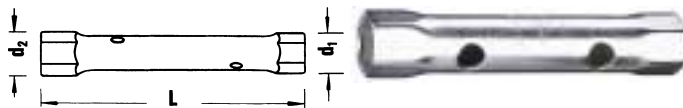
5100 Rubber insert

for size 20.8 mm (No 4328; 46; 466; 51; 51S; 1040).

Code	g	
09010001	5	5

10750 Box spanners

DIN 896, B shape, ST 55, tubular, high carbon alloy steel, seamless drawn, chrome plated.



Code	mm	L mm	d ₁ mm	d ₂ mm	g	
43320607	6 x 7	110	7.52	10.5	26	10
43320809	8 x 9	110	12.2	13.2	30	10
43321011	10 x 11	120	14.2	15.2	48	10
43321213	12 x 13	140	17.2	18.2	68	10
43321415	14 x 15	140	19.2	20.2	78	10
43321617	16 x 17	150	22.2	23.2	123	10
43321719	17 x 19	160	24.2	26.2	147	10
43321819	18 x 19	160	25.2	26.2	148	10
43322022	20 x 22	170	27.2	29.3	200	5
43322123	21 x 23	170	28.2	30.2	191	5
43322426	24 x 26	190	32.2	34.2	293	5
43322427	24 x 27	190	32.2	35.2	289	5
43323032	30 x 32	200	39.2	42.3	382	5
43323236	32 x 36	220	42.2	46.2	535	2
43323641	36 x 41	220	47.2	52.5	662	2
43324146	41 x 46	240	53.2	59.2	750	2
43324650	46 x 50	240	58.5	63.5	959	2
43325560	55 x 60	240	70.2	76.2	1125	2



Sets: Box spanners

Code	No	Content mm	g
96431201	10750/7	8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22	725
96431204	10750/11	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 30 x 32	1585

ES 10750/10, 6x7-20x22 mm



175 x 350 x 30 mm, 10 pieces

Code	g
96838168	1132

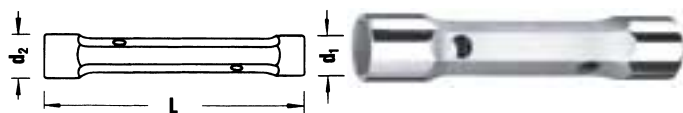
No 10750	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22 mm
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No 10750 1/2	sizes 6; 7
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83 81 20 84	Empty tray	103
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10751 Box spanners

double ended, forged Chrome Vanadium Steel, bored out, polished heads, chrome plated.



Code	mm	L mm	d ₁ mm	d ₂ mm	mm	g	
43200607	6 x 7	110	9.5	10.5	8	39	10
43200809	8 x 9	120	11.8	13	9	55	10
43201011	10 x 11	130	14.4	16	11	72	10
43201213	12 x 13	140	17	18.4	13	116	10
43201415	14 x 15	150	19.5	20.8	14	147	10
43201617	16 x 17	160	21.8	23	16	193	10
43201819	18 x 19	170	24.4	26	18	225	10
43202022	20 x 22	180	27.3	30	20	328	5
43202123	21 x 23	185	28.5	31	21	340	5
43202427	24 x 27	190	32.2	36	24	436	5
43203032	30 x 32	200	39	41.5	30	619	5

ES 10751/10, 6x7-20x22 mm



175 x 350 x 30 mm, 10 pieces

Code	g
96838169	1586

No 10751	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22 mm
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No 10750 1/2	sizes 6; 7
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83 81 20 84	Empty tray	103
-------------	------------	-----

10750 1/2 Tommy bars

for No 10750 and No 10751, stepped.



Code	size	for No 10750 mm	for No 10751 mm	L mm	g	
48010006	6	6 x 7 - 14 x 15	6 x 7 - 16 x 17	180	57	1
48010007	7	16 x 17 - 24 x 27	18 x 19 - 30 x 32	320	338	1
48010008	8	30 x 32 - 55 x 60	-	630	1480	1

L = Length



STAHLWILLE sets of socket spanners and inserts provide guaranteed safety and efficiency.

The professionals in industry and the trades are under pressure to work quickly, accurately and economically. Which is why they make heavy demands on their tools. Due to the numerous technical innovations incorporated in them, STAHLWILLE's ratchets and sockets make a valuable contribution to the prevention of both mistakes and injuries.

By using ratchets, adaptors and inserts made by STAHLWILLE, professional tradesmen are quite simply "making sure". It does not matter whether it is a full set of tools or individual components – users can be sure they will get top-of-the-range quality every time. This is guaranteed by adherence to the closest tolerances during production and stringently applied quality assurance measures in accordance with DIN EN ISO 9001.

The legendary reliability and precision of these tools is enhanced by a large number of user-friendly features.

- **Non-slip, ergonomically manufactured 2-component handles facilitate strain-free working.**
- **Slim-design sockets enable access to awkward places.**
- **The new QuickRelease system ensures full control over the joint between the ratchet, the adaptors and the sockets.**



1. Ergonomically designed 2-component handle made of impact-resistant, skydrol resistant plastic.

2. All metal parts are made of high-grade steel (chrome alloy steel, chromium-plated).

5. Separate pawl to switch from clockwise to anticlockwise.

4. Wear parts can be easily replaced using sets of spares for sockets.

3. Firm seating and yet easy release of sockets and adaptors.

Set No 45/14/5iQR
in the new, sturdy plastic case

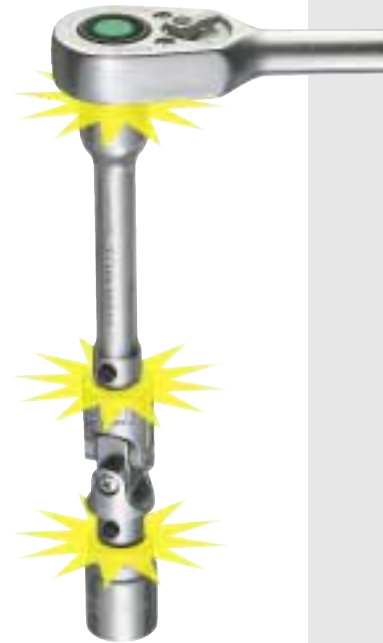
Safety advantage 1

STHLWILLE QuickRelease system

The problem:
imagine what happens if a tool falls into an inaccessible place during repair or overhaul work.

The consequences:
arduous, costly search and recovery, possibly involving disassembly of an aeroengine or machine.

The solution:
the safety lock built into the QuickRelease system prevents damage to workpieces and guarantees secure, rapid connection of all individual components to form a single combined unit. Nothing can get lost because it is not possible to inadvertently release a tool. To release a tool, it is first necessary to press the release button deliberately. Even if you have oily or greasy hands, attaching and separating the individual components is so simple it noticeably smoothes your workflows.



Safety advantage 2

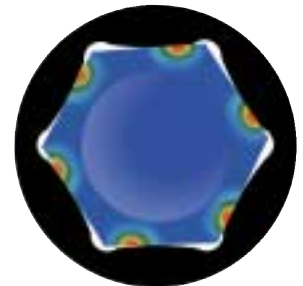
STHLWILLE's AS Drive

The problem:
removing heavily corroded screws requires the application of considerable force. The socket slips off the head of the screw.

The consequences:
uncontrolled movements cause injuries and damage to both the workpiece and the tools.

The solution:
STHLWILLE sockets are equipped with the AS Drive profile. This permits high transmission of forces to the lands of nuts and bolts without damaging them. The risk of injury is minimised and the corners of the screw heads and nuts are no longer damaged.

*AS Drive = Anti-Slip Drive



The tolerances on the jaw sizes and square drives of these cold-extruded sockets are as close as if they had been broached. This prevents them slipping off the heads.

The consequences: minimum wear on both screws and tools.

Safety advantage 3

STHLWILLE HPQ inserts

The problem:
although there is hardly enough room to move, you still have to apply considerable torque to loosen a stubborn screw.

The consequences:
many of the sockets available are useless simply because their wall thickness makes them impracticable in awkward places.

The solution:
STHLWILLE HPQ* sockets are manufactured from selected tough steel alloys. These sockets will not slip off the head of the screw, nor will they stretch when subjected to heavy loads. Their extremely thin walls and unbelievably high load capacity are simply exemplary. HPQ sockets are free of cadmium and are therefore suitable for use on titanium alloy parts and titanium fasteners as used e.g. in the aerospace industry, where safety is a crucial factor. They meet these aerospace standards: E DIN EN 3709, E DIN EN 3710, SAE AS 954-E, S.B.A.C. AS 40605/40606, MS-33787, MIL-W-8982.

*HPQ = High Performance Quality

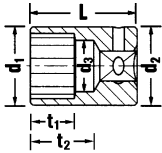




STHLWILLE sets of socket spanners are available in the tried-and-tested metal cases and alternatively in the new sturdy plastic cases.

40D  **Sockets**





metric sizes: DIN 3124/ISO 2725-1, E DIN EN 3709, ASME B 107.5M, American sizes: ASME B 107.1, Fed. Spec. GGG-W-641, SAE AS 954-E (test loads), HPQ high performance steel, chrome plated.



Code		d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	$\Delta\Delta$ g	
01030005	5	7.9	10.7	4	23	4.5	15	9	10
01030055	5.5	8.5	10.7	4.5	23	6	15	9	10
01030006	6	9.2	10.7	5	23	6	15	9	10
01030007	7	10.7	10.7	6	23	6.5	13.4	10	10
01030008	8	11.6	11.6	7	23	8	13.1	11	10
01030009	9	12.8	12.8	8	23	8	12.8	13	10
01030010	10	14.3	14.3	9	23	8	14.9	17	10
01030011	11	15.5	15.5	10	23	9	14.6	19	10
01030012	12	16.5	16.5	11	23	9.5	14.3	23	10
01030013	13	17.8	17.8	12	23	9.5	14	25	10
01030014	14	18.8	18.8	13	24	10	14.7	32	10

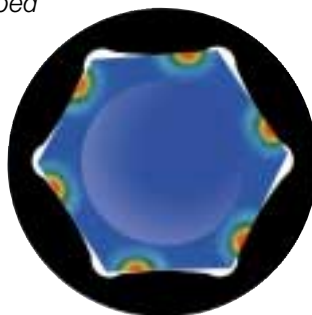
40aD  **Sockets**

Code		d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	$\Delta\Delta$ g	
01530012	3/16	7.6	10.7	4	23	4.5	15	9	10
01530014	7/32	8.6	10.7	5	23	6	15	9	10
01530016	1/4	9.4	10.7	5.5	23	6	15	9	10
01530018	9/32	10.7	10.7	6.6	23	6.5	13.2	10	10
01530020	5/16	11.6	11.6	7	23	8	13.1	11	10
01530022	11/32	12.7	12.7	8.1	23	8	13.3	13	10
01530024	3/8	13.7	13.7	8.3	23	8	13.3	16	10
01530028	7/16	15.8	15.8	10	23	9	14.6	21	10
01530032	1/2	17.3	17.3	11.5	23	9.5	14.1	27	10
01530034	9/16	18.8	18.8	13.1	24	10	14.7	31	10

STAHLWILLE AS-Drive

STAHLWILLE sockets are equipped with the AS Drive profile: this permits high transmission of forces to the lands of nuts and bolts without damaging them. No longer will you have to worry about stripping the corners off nuts and bolts.

*Anti-Slip Drive



40aD/10CL **Set: Sockets with clip strip**



Content:

3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
1 clip strip No 40CL-2

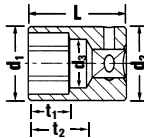




Code	$\Delta\Delta$ g
96015310	206

40  **Sockets**





metric sizes: DIN 3124/ISO 2725-1, ASME B 107.5M, E DIN EN 3709 (test loads), American sizes: ASME B 107.1, Fed. Spec. GGG-W-641, SAE AS 954-E (test loads), HPQ high performance steel, chrome plated.



Code		d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	$\Delta\Delta$ g	
01010032	3.2	5.6	10.7	2.5	23	2	15	8	10
01010035	3.5	6	10.7	2.5	23	2.5	15	8	10
01010004	4	6.7	10.7	3.2	23	3.5	15	9	10
01010045	4.5	7.3	10.7	3.7	23	4	15	9	10
01010005	5	7.9	10.7	4	23	4.5	15	9	10
01010055	5.5	8.5	10.7	4.5	23	6	15	9	10
01010006	6	9.2	10.7	5	23	6	15	9	10
01010007	7	10.7	10.7	6	23	6.5	13.4	10	10
01010008	8	11.6	11.6	7	23	8	13.1	11	10
01010009	9	12.8	12.8	8	23	8	12.8	14	10
01010010	10	14.3	14.3	9	23	8	14.9	17	10
01010011	11	15.5	15.5	10	23	9	14.6	19	10
01010012	12	16.5	16.5	11	23	9.5	14.3	24	10
01010013	13	17.8	17.8	12	23	9.5	14	26	10
01010014	14	18.8	18.8	13	24	10	14.7	32	10

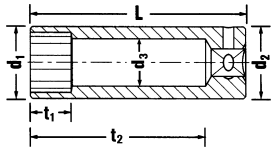
40a  **Sockets**

Code		d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	$\Delta\Delta$ g	
01410010	5/32	6.7	10.7	3.2	23	3.5	15	9	10
01410012	3/16	7.6	10.7	4	23	4.5	15	9	10
01410014	7/32	8.6	10.7	5	23	6	15	9	10
01410016	1/4	9.4	10.7	5.5	23	6	15	9	10
01410018	9/32	10.7	10.7	6.6	23	6.5	13.2	10	10
01410020	5/16	11.6	11.6	7	23	8	13.1	12	10
01410022	11/32	12.7	12.7	8.1	23	8	13.3	14	10
01410024	3/8	13.7	13.7	8.3	23	8	13.3	16	10
01410028	7/16	15.8	15.8	10	23	9	14.6	21	10
01410032	1/2	17.3	17.3	11.5	23	9.5	14.1	27	10
01410034	9/16	18.8	18.8	13.1	24	10	14.7	31	10

40DL Sockets



extra deep, metric sizes: E DIN EN 3710, E DIN EN 3709, DIN 3124/ISO 2725-1, ASME B 107.5M
American sizes: ASME B 107.1, Fed. Spec. GGG-W-641, SAE AS 954-E, HPQ high performance steel, chrome plated.



Code	\varnothing mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δ g	
01240005	5	7.9	10.7	4	50	4.5	42	18	5
01240055	5.5	8.5	10.7	4.5	50	6	42	16	5
01240006	6	9.2	10.7	5	50	6	42	18	5
01240007	7	10.7	10.7	6	50	6.5	40.9	21	5
01240008	8	11.6	11.6	7	50	8	40.1	23	5
01240009	9	12.8	12.8	8	50	8	39.8	30	5
01240010	10	14.3	14.3	9	50	9	41.9	35	5
01240011	11	15.5	15.5	10	50	10.5	41.6	40	5
01240012	12	16.5	16.5	11	50	12	41.3	47	5
01240013	13	17.8	17.8	12	50	12	41	50	5
01240014	14	18.8	18.8	13	50	15	40.7	57	5

40aDL Sockets

Code	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δ g	
01640012	3/16	7.6	10.7	4	50	4.5	42	15	5
01640014	7/32	8.6	10.7	5	50	6	42	16	5
01640016	1/4	9.4	10.7	5.2	50	6	42	19	5
01640018	9/32	10.7	10.7	6.5	50	8	40.2	20	5
01640020	5/16	11.6	11.6	7	50	8	40.1	24	5
01640022	11/32	12.7	12.7	8.1	50	9	39.7	26	5
01640024	3/8	13.7	13.7	8.3	50	9	39.7	33	5
01640028	7/16	15.8	15.8	10	50	10.5	41.6	42	5
01640032	1/2	17.3	17.3	11.5	50	12	41.1	44	5
01640034	9/16	18.8	18.8	13.1	50	15	40.7	62	5

STAHLWILLE's HPQ inserts

STAHLWILLE HPQ* sockets are manufactured from selected tough steel alloys. The result: they are extremely durable. HPQ sockets are free of cadmium and are therefore suitable for use on titanium alloy parts and titanium fasteners as used e.g. in the aerospace industry, where safety is a crucial factor.



*High Performance Quality

40aDL/7 Set: Sockets



extra deep
Content:
3/16; 1/4; 5/16; 3/8; 7/16; 1/2; 9/16"



Code	Δ g
96016401	241

packed in carton

40aDL/10CL Set: Sockets with clip strip



Content:
3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
1 clip strip No 40CL-2

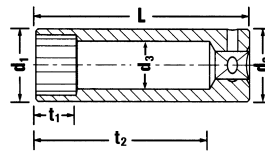


Code	Δ g
96016410	350

40aDV Sockets



SAE AS 954, S.B.A.C. AS 40605/40606,
HPQ high performance steel, chrome plated.



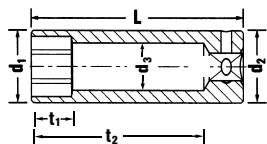
Code	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δ g	
01650014	7/32	8.6	10.7	5	31.8	6	23.8	12	10
01650016	1/4	9.4	10.7	5.2	31.8	6	23.8	13	10
01650018	9/32	10.7	10.7	6.6	31.8	6.5	22	13	10
01650020	5/16	11.6	11.6	7	31.8	8	21.9	15	10

40L

Sockets



extra deep, DIN 3124/ISO 2725-1, ASME B 107.5M, E DIN EN 3710, E DIN EN 3709 (test loads), HPQ high performance steel, chrome plated.



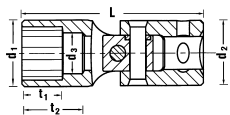
Code	Ø mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	ΔΔ g	☐
01020004	4	6.7	10.7	3.2	50	3.5	42	14	10
01020045	4.5	7.3	10.7	3.7	50	4	42	15	10
01020005	5	7.9	10.7	4	50	4.5	42	16	10
01020055	5.5	8.5	10.7	4.5	50	6	42	17	10
01020006	6	9.2	10.7	5	50	6	42	18	10
01020007	7	10.7	10.7	6	50	6.5	40.9	24	10
01020008	8	11.6	11.6	7	50	8	40.1	27	10
01020009	9	12.8	12.8	8	50	8	39.8	31	10
01020010	10	14.3	14.3	9	50	9	41.9	38	10
01020011	11	15.5	15.5	10	50	10.5	41.6	43	10
01020012	12	16.5	16.5	11	50	12	41.3	49	10
01020013	13	17.8	17.8	12	50	12	41	56	10

402

UNIFLEX sockets



American sizes: SAE AS 954, ASME B 107.1, HPQ high performance steel, chrome plated.



Code	Ø mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	ΔΔ g	☐
01140006	6	9.2	12.7	5	32	5.5	10	16	5
01140007	7	10.4	12.7	6	33.5	6	11.5	16	5
01140008	8	11.6	12.7	6.7	35	8	13	17	5
01140009	9	13	12.7	8	36	8	12	20	5
01140010	10	14.2	12.7	9	38	12	14	38	5

402a

UNIFLEX sockets

Code	Ø "	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	ΔΔ g	☐
01540016	1/4	9.6	12.7	5.2	32	5.5	10	16	5
01540020	5/16	11.6	12.7	6.7	35	8	13	17	5
01540024	3/8	13.6	12.7	9	38	8.6	13.1	20	5
01540028	7/16	15.7	12.7	10.5	39.5	10.7	15	23	5
01540032	1/2	17.3	12.7	12	41.5	11.1	16.5	27	5

402a/5

Set: UNIFLEX sockets



Content:

1/4; 5/16; 3/8; 7/16; 1/2"



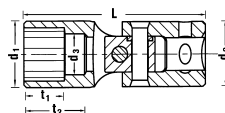
Code	ΔΔ g
96015401	101

402aK

UNIFLEX sockets



short version, HPQ high performance steel, chrome plated.



Code	Ø "	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	ΔΔ g	☐
01541024	3/8	13.6	12.7	6.7	34	9.1	12.0	18	5
01541034	9/16	19	12.7	13.1	37.5	10.3	11.8	25	5

STAHLWILLE's HPQ inserts

STAHLWILLE HPQ* sockets are manufactured from selected tough steel alloys. The result: they are extremely durable. HPQ sockets are free of cadmium and are therefore suitable for use on titanium alloy parts and titanium fasteners as used e.g. in the aerospace industry, where safety is a crucial factor.

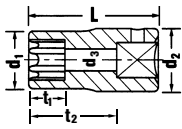
*High Performance Quality



40TX Sockets



for external TORX® screws, HPQ high performance steel, chrome plated.



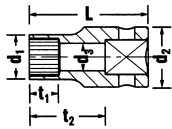
Code	size	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	ΔΔ g	
01270004	E4	3.8	5.6	10.7	2	23	4.5	15	8 10
01270005	E5	4.7	6.7	10.7	2.8	23	5	15	7 10
01270006	E6	5.7	8	10.7	3.6	23	5.5	15	10 10
01270007	E7	6.2	9.6	10.7	3.8	23	6.5	15	10 10
01270008	E8	7.5	10.5	11.6	4.3	23	7	15	13 10
01270010	E10	9.4	12.7	12.7	5.6	23	9	15	17 10

Application: size E6 for setting the endstop on front side windows of the Audi 100 from model year 91 on and Golf Cabriolet from model year 93 on

40aSP Sockets spline-drive



MS-33787, MIL-W-8982, HPQ high performance steel, chrome plated.

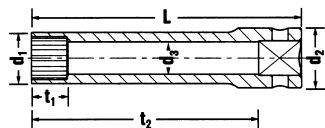


Code	Spline size	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	ΔΔ g	
01011007	7	7/32	8.6	10.7	5	22.2	6	14.2	7	1
01011008	8	1/4	9.5	10.7	5.6	22.2	8	14.2	10	1
01011009	9	9/32	11.2	11.2	6.6	22.2	8	12.4	10	1
01011010	10	5/16	11.6	11.6	7.1	22.2	8	12.2	12	1

40aLSP Sockets spline-drive



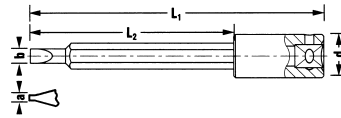
extra deep, bolt clearance, MS-33787, MIL-W-8982, HPQ high performance steel, chrome plated.



Code	Spline size	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	ΔΔ g	
01021008	8	1/4	9.5	10.7	5.6	50.8	8	42.8	24	1

41 Screwdriver sockets

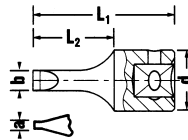
for slotted screws, blades to DIN 5264, Chrome Alloy Steel, chrome plated.



Code	mm	L ₁ mm	L ₂ mm	d mm	a mm	b mm	ΔΔ g	
01040005	0.5x3	82	57	11.6	0.5	3	20	5
01040006	0.6x3.5	82	57	11.6	0.6	3.5	31	5
01040008	0.8x4	82	57	11.6	0.8	4	32	5
01040010	1x5.5	82	57	11.6	1	5.5	32	5
01040012	1.2x8	82	57	14	1.2	8	45	5

41K Screwdriver sockets

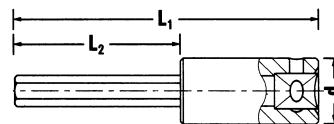
for slotted screws, blades to DIN 5264, Chrome Alloy Steel, chrome plated.



Code	mm	L ₁ mm	L ₂ mm	d mm	a mm	b mm	ΔΔ g	
01280006	0.6x3.5	28	16	11.6	0.6	3.5	9	5
01280008	0.8x4	28	16	11.6	0.8	4	10	5
01280010	1x5.5	28	16	11.6	1	5.5	11	5
01280012	1.2x8	28	16	11.6	1.2	8	12	5
01280016	1.6x10	28	16	11.6	1.6	10	14	5

44 INHEX sockets

for socket head screws, DIN 7422, Chrome Alloy Steel, chrome plated.



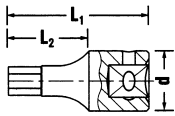
Code	mm	L ₁ mm	L ₂ mm	d mm	ΔΔ g	
01050025	2.5	55	30	10.7	14	5
01050003	3	55	30	10.7	14	5
01050004	4	55	30	10.7	16	5
01050005	5	55	30	10.7	20	5
01050006	6	55	30	11.6	26	5

44a INHEX sockets

Code	"	L ₁ mm	L ₂ mm	d mm	ΔΔ g	
01450004	1/16	55	30	10.7	11	5
01450005	5/64	55	30	10.7	12	5
01450006	3/32	55	30	10.7	14	5
01450007	7/64	55	30	10.7	17	5
01450008	1/8	55	30	10.7	12	5
01450009	9/64	55	30	10.7	13	5
01450010	5/32	55	30	10.7	14	5
01450012	3/16	55	30	10.7	17	5
01450014	7/32	55	30	10.7	19	5
01450016	1/4	55	30	11.6	24	5

44K INHEX sockets

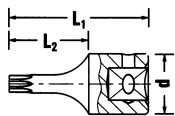
for socket head screws,
Chrome Alloy Steel, chrome plated.



Code	mm	L ₁ mm	L ₂ mm	d mm	Δg g	
01120003	3	28	16	11.6	10	5
01120004	4	28	16	11.6	10	5
01120005	5	28	16	11.6	10	5
01120006	6	28	16	11.6	10	5
01120008	8	28	16	11.6	15	5

44KTX Screwdriver sockets

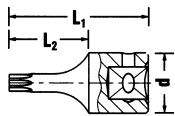
for inside TORX® screws,
Chrome Alloy Steel, chrome plated.



Code	size	mm	L ₁ mm	L ₂ mm	d mm	Δg g	
01350008	T8	2.3	28	16	11.6	10	5
01350009	T9	2.5	28	16	11.6	10	5
01350010	T10	2.7	28	16	11.6	10	5
01350015	T15	3.3	28	16	11.6	10	5
01350020	T20	3.8	28	16	11.6	11	5
01350025	T25	4.4	28	16	11.6	11	5
01350027	T27	5.0	28	16	11.6	11	5
01350030	T30	5.5	28	16	11.6	11	5
01350040	T40	6.6	28	16	11.6	12	5

44KTXB Screwdriver sockets

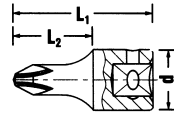
with hollow point, for inside TORX® screws
(TORX® TAMPER RESISTANT),
Chrome Alloy Steel, chrome plated.



Code	size	mm	L ₁ mm	L ₂ mm	d mm	Δg g	
01351008	T8	2.3	28	16	11.6	10	5
01351009	T9	2.5	28	16	11.6	10	5
01351010	T10	2.7	28	16	11.6	10	5
01351015	T15	3.3	28	16	11.6	10	5
01351020	T20	3.8	28	16	11.6	10	5
01351025	T25	4.4	28	16	11.6	11	5
01351027	T27	5.0	28	16	11.6	11	5
01351030	T30	5.5	28	16	11.6	11	5
01351040	T40	6.6	28	16	11.6	12	5

44P Screwdriver sockets

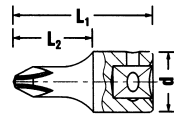
for recessed head screws Phillips-Recess®, tips to DIN 5260,
Chrome Alloy Steel, chrome plated.



Code	PH size	L ₁ mm	L ₂ mm	d mm	Δg g	
01290001	1	28	16	11.6	10	5
01290002	2	28	16	11.6	11	5
01290003	3	28	16	11.6	12	5
01290004	4	28	16	11.6	14	5

44PZ Screwdriver sockets

for POZIDRIV/SUPADRIV® screws,
Chrome Alloy Steel, chrome plated.



Code	PZ size	L ₁ mm	L ₂ mm	d mm	Δg g	
01300001	1	28	16	11.6	10	5
01300002	2	28	16	11.6	11	5

40CL Clip strips

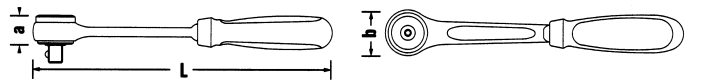
for socket retention,
with 9 or 10 retaining clips.
Supplied without sockets.



Code	size	L mm	Δg g	
80400001	1	200	36	5
80400002	2	300	52	5

Drive tools and accessories

1/4" □, finish: Chrome Alloy Steel, chrome plated.



411 Ratchet, fine tooth

reversible (60 teeth),
for use in confined spaces,
re-engages after movement of 6°,
DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	Δg g	
11230011	118	24	19.5	87	1

415 Ratchet

reversible (22 teeth),
DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	⚖️ g	📦
11 11 0010	117	22	12.5	76	5

415QR QuickRelease ratchet



reversible (22 teeth),
with QuickRelease safety
locks and 2-component
handles, DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	⚖️ g	📦
11 11 0020	117	22	12.5	79	1

QR The QuickRelease system

*Ratchets, handles, extensions,
universal joints with
safety locks.*

- Secure, rapid connection between the individual components to form a single combined unit.
- Can only be separated by releasing the locking mechanism.
- Variable combinations of components possible.



415QR/2 QuickRelease set



Content:
Ratchet 415 QR
Extension 405/2QR, 54 mm
Extension 405/6QR, 150 mm



Code	⚖️ g	📦
96 11 1102	272	1

415SK Ratchet

reversible, slim handle
(22 teeth), DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	⚖️ g	📦
11 12 0010	117	22	12.5	75	5

415SG-QR QuickRelease ratchet



reversible, (22 teeth), with
QuickRelease safety
locks and steel handle,
DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	⚖️ g	📦
11 11 0030	117	22	12.5	90	1

415SGB Ratchet

reversible, with steel handle
and inside hexagon,
1/4," DIN 3126/ISO 1173 D 6.3 for
Bits Screwdriver sockets 1/4"
(22 teeth).
Internal hex drive with a collar-thrust
spring (registered design). Bits are
easy to insert, lock securely in
position and can be removed just as
easily; even hex bits with a wide
groove (Type E, DIN 3126/ISO 1173).



Code	L mm	b mm	a mm	⚖️ g	📦
11 13 0011	117	22	12	85	5

416 Flexible joint ratchet

reversible (60 teeth), handle may be
raised or lowered by approx. 90°.
Lockable in following positions:
straight, 30° up, 60° up, 30° down.
Unlocked by depressing button in
handle, registered design.



Code	L mm	b mm	a mm	⚖️ g	📦
11 26 0001	170	25	19.5	232	1

420* RATCHFIX ratchet

reversing lever near handle
(22 teeth), DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	⚖️ g	📦
11 15 0001	121	21.5	10.5	73	1

* to be discontinued

Spare parts for ratchets No 411, 416

4110 Spare parts set

Content:
1 Pinion
1 Pawl
1 Switching disk
1 Spring
3 Screws

Code	g	g	g
1920001	42	1	

for ratchets from 4/96

Spare Parts for ratchet No 420

4200* Spare parts set

Content:
1 Pinion
1 Pawl
1 Ball
1 Compression Spring
3 Screws

Code	g	g	g
1914000	17	1	

* to be discontinued

3

Spare parts for ratchets No 415, 415SK, 415SG

4150 Spare parts set

Content:
1 Pinion
1 Pawl
1 Lever with pin
1 Ball
1 Compression spring
2 Screws M 1.7 x 8
1 Cover plate

Code	g	g	g
1901000	19	1	

Spare parts for ratchets No 415QR, 415SG-QR

4150 QR Spare parts set



Content:
1 Pinion
1 Pawl
1 Lever with pin
1 Ball
1 Compression Spring
2 Screws M 1.7 x 8

Code	g	g	g
1901002	19	1	

400 Drive handle

DIN 3122/ISO 3315.



Code	L mm	g	g
11050010	150	70	5

400QR QuickRelease drive handle



DIN 3122/ISO 3315, with QuickRelease safety locks.



Code	L mm	g	g
11051010	150	75	1

400 Drall Drive handle

with 1/4" square drive in end of handle, DIN 3122/ISO 3315.



Code	L mm	g	g
11050011	150	110	5

401 Drive handle

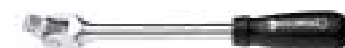
flexible shaft (right hand rotation only), maximum torque 5 N m.



Code	L mm	g	g
11050002	230	120	5

403 Flexible handle

DIN 3122/ISO 3315.



Code	L mm	g	g
11060010	154.5	70	5

404 Sliding T-handle

DIN 3122/ISO 3315.



Code	L mm	△△ g	📦
11070000	116	38	5

404QR QuickRelease sliding T-handle



with QuickRelease safety locks.



Code	L mm	△△ g	📦
11071000	116	52	1

413 Speeder brace

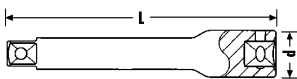
with steel handle,
working radius 70 mm.



Code	L mm	△△ g	📦
11100001	440	352	1

405 Extensions

DIN 3123/ISO 3316.



Code	size	L mm	d mm	△△ g	📦
11010001	2	54	11.6	29	5
11010006	4	100	11.6	46	5
11010002	6	150	11.6	65	5
11010010	10	254	11.6	115	1
11010014	14	356	11.6	155	1

Extensions with wobble-drive

swivel angle 8°
each side,
max. torque 40 N m.



Code	No	L mm	d mm	△△ g	📦
11010011	405/2W	54	11.6	28	1
11010016	405/4W	100	11.6	45	1
11010012	405/6W	150	11.6	55	1
11010020	405/10W	254	11.6	110	1
11010024	405/14W	356	11.6	155	1

QuickRelease extensions



DIN 3123/ISO 3316.



Code	No	L mm	d mm	△△ g	📦
11011001	405/2QR	54	12	28	1
11011002	405/6QR	150	12	65	1

406 Extension, flexible

(right hand rotation only)
maximum torque 5 N m.



Code	L mm	d mm	△△ g	📦
11040000	152	11.6	61	5

407 Universal joint

DIN 3123/ISO 3316.



Code	L mm	d mm	△△ g	📦
11020000	37	12.8	23	5

407QR QuickRelease universal joint



with QuickRelease safety locks.



Code	L mm	d mm	△△ g	📦
11021000	45	13	35	1

409 Adaptor



1/4" socket x 3/8" plug
(6.3 X 10),
DIN 3123/ISO 3316,
HPQ high performance steel.



Code	L mm	d mm	△△ g	📦
11030002	25	12.8	18	5

409M/432M /514M/3 Set adaptors, 3 pieces

1/4" socket x 3/8" plug,
3/8" socket x 1/2" plug,
1/2" socket x 3/4" plug.



Code	g	g	g
96 12 1002	120	1	

409M Adaptor

1/4" socket x 3/8" plug
(6.3 x 10 mm).



Code	L mm	∅ mm	g	g
110300 10	13	25	14	1

410 Adaptor

HPQ
1/4" socket x 1/2" plug
(6.3 x 12.5), HPQ
high performance steel.



Code	L mm	d mm	g	g
11030003	28	16.5	36	5

412 Bit holder

HPQ
1/4" inside hexagon,
DIN 3126 form D 6.3/
ISO 1173 form D 6.3.
Internal hex drive with a collar-thrust
spring (registered design). Bits are
easy to insert, lock securely in
position and can be removed just as
easily; even hex bits with a wide
groove (Type E, DIN 3126/ISO 1173).
HPQ high performance steel.



Code	L mm	d mm	g	g
11 1800 10	25	11.6	15	5

412-1 Bit holder

HPQ
1/4" inside hexagon,
DIN 3126 form D 6.3/
ISO 1173 form D 6.3.
Outer 10 mm for use in tools with
10 mm internal hex drive or internal
double hexagon (e.g. "FLEXI"
double-ended flexi-joint spanners,
T-handle universal joint spanners,
box spanners, ratchet ring spanners
etc.)
Internal hex drive with a collar-thrust
spring (registered design). Bits are
easy to insert, lock securely in
position and can be removed just as
easily; even hex bits with a wide
groove (Type E, DIN 3126/ISO 1173).
HPQ high performance steel.



Code	outside	L mm	d mm	g	g
11 1800 20	10 mm	20	11.6	11	5

417/1 Locking adaptor

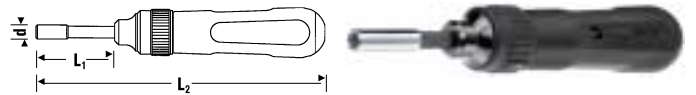
with hexagon key wrench
No 10760aCV 3/32".



Code	L mm	d mm	g	g
96 11 27 01	42	13	23	1

4008 Ratcheting bit holder

Positions selectable are clockwise/counterclockwise/fixed with fixed blade.
Inner hex. with magnet, for 1/4" screwdriver bits with outside hexagon 1/4"
DIN 3126/ISO 1173 Form C 6.3.
The square drive extension No 3115/1 can be used to adapt 1/4" socket
inserts (outer hex. to 1/4" outer square).
The ratcheting bit holder is fitted with a quick-twist knurled socket to allow
the user to tighten or untighten loosely by hand. Socket mountings are
toothed, heavy-duty and angled at 30°. Ergonomically shaped handle with
1/4" inner square drive, for use with cross-handle, extension bar etc.



Code	inside	"	L ₁ mm	L ₂ mm	d mm	g	g
18 12 00 00	D 6.3	1/4	56	206.5	10	185	8

inside 1/4" DIN 3126/ISO 1173

4008/18 Ratcheting bit holder set

19 pieces
 Content:
 1 Ratcheting bit holder No 4008
 3 Bits ⊕ 1221; 1222; 1223
 3 Bits ⊕ PZ 1221; PZ 1222;
 PZ 1223
 6 Bits ⊕ 1440 T10; 1441 T15;
 1442 T20; 1443 T25; 1445 T30;
 1446 T40
 3 Bits ⊙ 1301; 1302; 1303
 3 Bits ⊖ 1163 0.6 x 4.5;
 1165 0.8 x 5.5; 1166/1 1.2 x 6.5 mm



Code	⚖️ g	📦
96 18 1200	785	1

4008/27/1 Ratcheting bit holder set

29 pieces
 Content:
 1 Ratcheting bit holder No 4008
 3 Bits ⊕ 1221; 1222; 1223
 3 Bits ⊕ PZ 1221; PZ 1222;
 PZ 1223
 6 Bits ⊕ 1440 T10; 1441 T15;
 1442 T20; 1443 T25; 1145 T30;
 1446 T40
 3 Bits ⊙ 1301; 1302; 1303
 3 Bits ⊖ 1163 0.6 x 4.5; 1165
 0.8 x 5.5; 1166/1 1.2 x 6.5 mm
 1 Square drive extension No 3115/1
 with 1/4" outer hex.
 and outer square drives
 for attaching 1/4" □ sockets
 9 Sockets No 40, 1/4" □
 sizes 4; 5; 5.5; 6; 7; 8; 10; 11;
 13 mm



Code	⚖️ g	📦
96 18 1202	1025	1

Tools for Hi-Lok bolts

40aD/8/1H Socket set

for Hi-Lok bolts.
 Content:
 5 Sockets with bi-hexagon
 No 40aD:
 sizes 7/32; 1/4; 5/16; 11/32; 3/8"
 3 Offset Screwdrivers No 10759a:
 1/16; 5/64; 3/32"
 1 Ratchet No 415SGH



Code	⚖️ g	📦
96 01 5303	492	1

40a/8/1H Socket sets

for Hi-Lok bolts.
 Content:
 as No 40aD/8/1H, but with Sockets hexagon
 No 40a: sizes 7/32; 1/4; 5/16; 11/32; 3/8"

Code	⚖️ g	📦
96 01 4108	492	1

415SGH Ratchet

reversible, (22 dents), patented,
 axially drilled pinion,
 locking facility for sockets.
 For use on Hi-Lok bolts
 in the aerospace industry
 (22 teeth)



Code	L mm	b mm	a mm	⚖️ g	📦
11 11 0002	117	22	12.5	90	5

414H Hi-Lok extensions

with lock-on facility as on
 ratchet No 415SGH, patent.



Code	size	L mm	d mm	⚖️ g	📦
11 24 00 11	2	54	13	34	1
11 24 00 12	4	102	13	49	1
11 24 00 13	6	152	13	66	1

10759 Offset screwdrivers

with hexagon end for Ratchet
 No 415SGH, patent. Round shaft on
 Screwdriver enables locking of ball
 retainer.



Code	size	⊕ mm	L mm	⚖️ g	📦
43 06 21 50	2	1.5	50	5	5
43 06 41 50	4	1.5	100	8	5
43 06 61 50	6	1.5	150	11	5
43 06 81 50	8	1.5	200	14	5
43 06 01 50	10	1.5	250	16	5
43 06 20 02	2	2	50	5	5
43 06 40 02	4	2	100	8	5
43 06 60 02	6	2	150	11	5
43 06 80 02	8	2	200	14	5
43 06 00 02	10	2	250	17	5
43 06 22 50	2	2.5	50	5	5
43 06 42 50	4	2.5	100	8	5
43 06 62 50	6	2.5	150	11	5
43 06 82 50	8	2.5	200	14	5
43 06 02 50	10	2.5	250	17	5

10759a Offset screwdrivers

Code	size	⊕ "	L mm	⚖️ g	📦
43 56 00 04	2	1/16	50	5	5
43 56 40 04	4	1/16	100	8	5
43 56 00 05	2	5/64	50	5	5
43 56 40 05	4	5/64	100	8	5
43 56 00 06	2	3/32	50	5	5
43 56 40 06	4	3/32	100	8	5

739/20H Ratchet insert tool

axially drilled pinion, locking facility for sockets.
For use on Hi-Lok bolts in the aerospace industry.



Code	"	mm	Δ
5828 1020	1/2	14 x 18	260

40/9/4 Socket set 1/4" □

In sturdy sheet steel case, 13 pieces
Content:
9 sockets with hexagon
No 40: sizes 4; 5; 5.5; 6; 7; 8; 10; 11; 13 mm
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 universal joint No 407



Code	Δ
9601 01 19	820

40D/9/4 Socket set 1/4" □

In sturdy sheet steel case, 13 pieces
Content:
9 sockets with bi-hexagon
No 40D: sizes 4; 5; 5.5; 6; 7; 8; 10; 11; 13 mm
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 universal joint No 407



Code	Δ
9601 03 04	852

40/13/6 Socket set 1/4" □

In sturdy sheet steel case, 19 pieces
Content:
13 sockets with hexagon
No 40: sizes 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 10; 11; 12; 13 mm
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 universal joint No 407
1 drive handle No 400
1 T-handle No 404



Code	Δ
9601 01 24	1027

40/13/6TCS Socket set 1/4" □



In sturdy sheet steel case, in TCS inlay, 19 pieces
Content:
13 sockets with hexagon
No 40: sizes 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 10; 11; 12; 13 mm
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 universal joint No 407
1 drive handle No 400
1 T-handle No 404



Code	Δ
9601 01 25	1027

QR The QuickRelease system

Ratchets, handles, extensions, universal joints with safety locks.

- Secure, rapid connection between the individual components to form a single combined unit.
- Can only be separated by releasing the locking mechanism.
- Variable combinations of components possible.



40/13/6QR Socket set 1/4" □



in sturdy ABS plastic case, 19 pieces
Content:
13 sockets with hexagon
No 40: sizes 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 10; 11; 12; 13 mm
1 ratchet No 415QR
2 extensions
No 405/2QR (54 mm),
No 405/6QR (150 mm)
1 universal joint No 407QR
1 drive handle No 400QR
1 T-handle No 404QR



Code	Δ
9601 01 80	765

40/15/6N Socket set 1/4"

In sturdy sheet steel case,
21 pieces
Content:
15 sockets with hexagon
No 40: sizes 3.2; 3.5; 4; 4.5; 5; 5.5;
6; 7; 8; 10; 11; 12; 13; 14 mm
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 universal joint No 407
1 drive handle No 400
1 T-handle No 404



Code	ΔΔ g
96010137	1061

40/44/17/5 Socket set 1/4"

In sturdy sheet steel case,
22 pieces
Content:
13 sockets with hexagon
No 40: sizes 3.5; 4; 4.5; 5; 5.5; 6; 7;
8; 9; 10; 11; 12; 13 mm;
4 INHEX sockets No 44:
sizes 3; 4; 5; 6 mm
1 ratchet No 415
1 extension No 405/6 (150 mm)
1 universal joint No 407
1 drive handle No 400
1 T-handle No 404



Code	ΔΔ g
96010113	1071

40/44/17/5QR Socket set 1/4"

QR
in sturdy ABS plastic case,
22 pieces
Content:
13 sockets with hexagon
No 40: sizes 3.5; 4; 4.5; 5; 5.5; 6; 7;
8; 9; 10; 11; 12; 13 mm
4 INHEX sockets No 44:
sizes 3; 4; 5; 6 mm
1 ratchet 415QR
1 extension No 405/6QR (150 mm)
1 universal joint No 407QR
1 drive handle 400QR
1 T-handle No 404QR



Code	ΔΔ g
96010181	805

40/23/7 Socket set 1/4"

In sturdy sheet steel case,
30 pieces
Content:
12 sockets with hexagon
No 40: sizes 4; 4.5; 5; 5.5; 6; 7; 8; 9;
10; 11; 12; 13 mm
4 INHEX sockets No 44:
sizes 3; 4; 5; 6 mm
3 Bits ⊕ 1221: size 1;
1222: size 2; 1223: size 3
4 bits ⊖ 1162: 0.6 x 3.5 mm
1164: 0.8 x 4 mm; 1166: 1 x 5.5 mm
1168: 1.6 x 8 mm
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm),
1 universal joint No 407
1 drive handle No 400
1 T-handle No 404
1 bit-holder No 412



Code	ΔΔ g
96010134	1355

40D/23/7 Socket set 1/4"

In sturdy sheet steel case,
30 pieces
Content:
12 sockets with bi-hexagon
No 40D: sizes 4; 4.5; 5; 5.5; 6; 7;
8; 9; 10; 11; 12; 13 mm
4 INHEX sockets No 44:
sizes 3; 4; 5; 6 mm
3 bits ⊕ No 1221: size 1;
No 1222: size 2; No 1223: size 3
4 Bits ⊖ 1162: 0.6 x 3.5 mm,
1164: 0.8 x 4 mm; 1166: 1 x 5.5 mm
1168: 1.6 x 8 mm
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 universal joint No 407
1 drive handle No 400
1 T-handle No 404
1 bit-holder No 412



Code	ΔΔ g
96010305	1380



40/23/6N Socket set 1/4"

In sturdy sheet steel case,
29 pieces
Content:
11 sockets with hexagon No 40:
sizes 5; 5.5; 6; 7; 8; 9; 10; 11; 12;
13; 14 mm
3 screwdriver sockets \ominus No 41K:
sizes 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm,
5 INHEX sockets No 44K:
sizes 3; 4; 5; 6; 8 mm
4 screwdriver sockets
 \oplus No 44P: sizes 1; 2; 3; 4
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 universal joint No 407
1 drive handle No 400
1 T-handle No 404



	Δ g
96010136	1167

40D/23/6 Socket set 1/4"

In sturdy sheet steel case,
29 pieces
Content:
11 sockets with bi-hexagon No 40D:
sizes 5; 5.5; 6; 7; 8; 9; 10; 11; 12;
13; 14 mm
3 screwdriver sockets \ominus No 41K:
sizes 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm
5 INHEX sockets No 44K:
sizes 3; 4; 5; 6; 8 mm
4 screwdriver sockets
 \oplus No 44P: sizes 1; 2; 3; 4
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 universal joint No 407
1 drive handle No 400
1 T-handle No 404



	Δ g
96010306	1120

40/24/6 Socket set 1/4"

in sturdy ABS plastic case,
30 pieces
Content:
12 sockets with hexagon No 40:
sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11;
12; 13; 14 mm
3 screwdriver sockets \ominus No 41K:
0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm
5 INHEX sockets No 44K:
sizes 3; 4; 5; 6; 8 mm
2 screwdriver sockets
 \oplus No 44P: sizes 1; 2
2 screwdriver sockets
 \oplus No 44PZ: sizes 1; 2
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 universal joint No 407
1 drive handle No 400
1 T-handle No 404



	Δ g
96010138	895

QR The QuickRelease system

*Ratchets, handles, extensions,
universal joints with
safety locks.*

- *Secure, rapid connection between the individual components to form a single combined unit.*
- *Can only be separated by releasing the locking mechanism.*
- *Variable combinations of components possible.*



40/24/6QR Socket set 1/4"



in sturdy ABS plastic case,
30 pieces
Content:
12 sockets with hexagon
No 40: sizes 4; 5; 5.5; 6; 7; 8; 9; 10;
11; 12; 13; 14 mm
3 screwdriver sockets \ominus No 41K:
0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm
5 INHEX sockets No 44K:
sizes 3; 4; 5; 6; 8 mm
2 screwdriver sockets
 \oplus No 44P: sizes 1; 2
2 screwdriver sockets
 \oplus No 44PZ: sizes 1; 2
1 ratchet No 415QR
2 extensions
No 405/2QR (54 mm),
No 405/6QR (150 mm)
1 universal joint No 407QR
1 drive handle No 400QR
1 T-handle No 404QR



Code	$\Delta \nabla$
	g
96010182	915

40ma/25/8 Socket set 1/4"

in sturdy sheet steel case,
33 pieces
Content:
25 sockets with hexagon
No 40: sizes 3.2; 3.5; 4; 4.5; 5; 5.5;
6; 7; 8; 9; 10; 11; 12; 13; 14 mm
No 40a: sizes $\frac{3}{16}$; $\frac{7}{32}$; $\frac{1}{4}$; $\frac{9}{32}$;
 $\frac{5}{16}$; $\frac{11}{32}$; $\frac{3}{8}$; $\frac{7}{16}$; $\frac{1}{2}$; $\frac{9}{16}$ "
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 extension, flexible
No 406 (152 mm)
1 universal joint No 407
1 drive handle No 400
1 flexible handle No 403
1 T-handle No 404



Code	$\Delta \nabla$
	g
96010162	2070

40/45/37/12 Socket set 1/4"; 3/8"

In sturdy sheet steel case,
49 pieces
Content:
8 sockets with hexagon
No 40: sizes 4; 4.5; 5; 5.5; 6; 7; 8;
9 mm
12 sockets with bi-hexagon No 45:
sizes 10; 11; 12; 13; 14; 15; 16; 17;
18; 19; 21; 22 mm
2 sockets with bi-hexagon, long,
with rubber insert
No 4600: size 16 mm - $\frac{5}{8}$ "
No 46: size 20.8 mm - $\frac{13}{16}$ "
3 bits \oplus 1221: size 1;
1222: size 2; 1223: size 3
1 bit \oplus PZ1222: size 2
6 bits \ominus 1160: 0.5 x 3 mm
1162: 0.6 x 3.5 mm
1164: 0.8 x 4 mm
1166: 1 x 5.5 mm
1166/1: 1.2 x 6.5 mm
1168: 1.6 x 8 mm
5 bits \bullet 1300: 3 mm;
1301: 4 mm; 1302: 5 mm;
1303: 6 mm; 1304: 8 mm
2 ratchets No 415, No 435
3 extensions
No 427/3 (76 mm),
No 405/6 (150 mm),
No 427/10 (240 mm)
2 universal joints No 407, No 428
1 drive handle No 400
1 T-handle No 425
2 bit-holder No 412, 442
1 adaptor No 431



Code	$\Delta \nabla$
	g
96010147	3247

40/52/27/11 Socket set 1/4"; 1/2"

In sturdy sheet steel case,
38 pieces
Content:
9 sockets with hexagon
No 40: sizes 4; 5; 5.5; 6; 7; 8; 9; 10;
11 mm
10 sockets with hexagon No 52:
sizes 13; 16; 17; 18; 19; 21; 22; 24;
27; 30 mm
3 INHEX sockets No 44:
sizes 3; 4; 5 mm
5 INHEX sockets No 54:
sizes 6; 8; 10; 12; 14 mm
2 ratchets No 415, No 512
4 extensions
No 405/2 (54 mm),
No 509/5 (130 mm),
No 405/6 (150 mm),
No 509/10 (255 mm)
2 universal joints No 407, No 510
1 drive handle No 400
2 T-handles No 404, No 506



Code	$\Delta \nabla$
	g
96010160	5472

40TX/44KTX/15/6 Socket set TORX® 1/4"

In sturdy sheet steel case,
21 pieces
Content:
6 sockets for external TORX®
screws No 40TX:
sizes E4; E5; E6; E7; E8; E10
9 screwdriver sockets for internal
TORX® screws
No 44KTX: sizes T8; T9; T10; T15;
T20; T25; T27; T30; T40
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 universal joint No 407
1 drive handle No 400
1 T-handle No 404



	☺☺
Code	g
96012701	999

88TX Socket set TORX® 1/4"

In sturdy sheet steel case,
36 pieces
Content:
10 sockets with hexagon
No 40: sizes 5; 5.5; 6; 7; 8; 9; 10; 11
12; 13 mm
6 sockets for external TORX®
screws No 40TX: sizes E4; E5; E6;
E7; E8; E10
5 INHEX sockets No 44K:
sizes 3; 4; 5; 6; 8 mm
9 screwdriver sockets for internal
TORX® screws No 44KTX:
sizes T8; T9; T10; T15; T20; T25;
T27; T30; T40
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 universal joint No 407
1 drive handle No 400
1 T-handle No 404



	☺☺
Code	g
98818801	1423

89TX Socket set TORX® 1/4; 3/8; 1/2"

In sturdy sheet steel case,
35 pieces
Content:
3 sockets for external TORX®
screws No 40TX: sizes E4; E5; E6
2 screwdriver sockets for internal
TORX® screws No 44KTX:
sizes T8; T9
4 sockets for external TORX®
screws No 45TX:
sizes E7; E8; E10; E12
5 screwdriver sockets for internal
TORX® screws No 49TX:
sizes T10; T15; T20; T25; T27
6 sockets for external TORX®
screws No 50TX: sizes E11; E14;
E16; E18; E20; E24
6 screwdriver sockets for internal
TORX® screws No 54TX:
sizes T30; T40; T45; T50; T55; T60
7 bits ☺ 1440: T10; 1441: T15;
1442: T20; 1443: T25; 1444: T27;
1445: T30; 1446: T40
1 bit-holder No 442
1 TORX® controller: sizes E6; E7;
E8; E10; E12; E14; E16; T10; T15;
T20; T25; T27; T30; T40; T45; T47;
T50; T55; T60



	☺☺
Code	g
98810908	2785



40/45/35/10TX Socket set TORX® 1/4; 3/8"

In sturdy sheet steel case,
45 pieces
Content:
8 sockets with hexagon
No 40: sizes 3.5; 4; 4.5; 5; 5.5; 6;
7; 8 mm
12 sockets with bi-hexagon
No 45: size 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 21; 22 mm
2 sockets with bi-hexagon, long,
with rubber insert
No 4600: size 16 mm - 5/8";
No 46: size 20.8 mm - 13/16"
4 INHEX sockets No 44:
sizes 3; 4; 5; 6 mm
3 screwdriver sockets for internal
TORX® screws No 44KTX:
sizes T10; T15; T20
2 INHEX sockets No 49:
sizes 8; 10 mm
4 screwdriver sockets for internal
TORX® screws No 49TX:
sizes T25; T27; T30; T40
2 ratchets No 415, No 435
4 extensions
No 405/2 (54 mm),
No 427/3 (76 mm),
No 405/6 (150 mm),
No 427/10 (240 mm)
2 universal joints No 407, No 428
1 drive handle No 400
1 adaptor No 431



85TX Socket set TORX® 1/4; 3/8; 1/2"

In sturdy sheet steel case,
57 pieces
Content:
4 double ended ring spanners for
external TORX® screws
No 21TX: sizes E6 x E8; E10 x E12;
E14 x E18; E20 x E24
5 sockets for external TORX®
screws No 40TX:
sizes E4; E5; E6; E7; E8
3 sockets for external TORX®
screws No 45TX:
sizes E10; E12; E14
5 sockets for external TORX®
screws No 50TX: sizes E11; E16;
E18; E20; E24
5 screwdriver sockets for internal
TORX® screws No 54TX: sizes T40;
T45; T50; T55; T60
4 bits ● 1410: T6; 1411: T7;
1412: T8; 1413: T9;
7 bits ● 1440: T10; 1441: T15;
1442: T20; 1443: T25; 1444: T27;
1445: T30; 1446: T40
1 bit ● 1427: T25 (65 mm)
10 TORX® DRALL screwdrivers
No 4750: sizes T6; T7; T8; T9; T10;
T15; T20; T25; T27; T30
11 angled screwdrivers for internal
TORX® screws No 10766:
sizes T6; T7; T8; T9; T10; T15; T20;
T25; T27; T30; T40
1 ratchet No 415SGB
1 bit-holder No 442



Code	ΔΔ g
96010148	3840

Code	ΔΔ g
98810402	4610



86TX Socket set TORX® 1/4; 1/2"

In sturdy sheet steel case,
63 pieces
Content:
9 sockets with hexagon
No 40: sizes 4; 5; 5.5; 6; 7; 8; 9; 10;
11 mm
10 sockets with hexagon
No 52: sizes 13; 16; 17; 18; 19; 21;
22; 24; 27; 30 mm
5 sockets for external TORX®
screws No 40TX:
sizes E4; E5; E6; E7; E8
7 sockets for external TORX®
screws No 50TX:
sizes E10; E12; E14; E16;
E18; E20; E24
3 INHEX sockets No 44:
sizes 3; 4; 5 mm
5 INHEX sockets No 54:
sizes 6; 8; 10; 12; 14 mm
6 screwdriver sockets for internal
TORX® screws No 44KTX:
sizes T8; T9; 10; T15; T20; T25
7 screwdriver sockets for internal
TORX® screws No 54TX:
sizes T27; T30; T40; T45; T50;
T55; T60
2 ratchets No 415, No 512
4 extensions
No 405/2 (54 mm),
No 509/5 (130 mm),
No 405/6 (150 mm),
No 509/10 (255 mm)
2 universal joints No 407, No 510
1 drive handle No 400
2 T-handles No 404, No 506



Code	ΔΔ g
96012702	7492

40a/9/4 Socket set 1/4"

In sturdy sheet steel case,
13 pieces
Content:
9 sockets with hexagon
No 40a: sizes 3/16; 7/32; 1/4; 9/32;
5/16; 11/32; 3/8; 7/16; 1/2"
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 universal joint No 407



Code	ΔΔ g
96014107	834

40aD/9/4 Socket set 1/4"

In sturdy sheet steel case,
13 pieces
Content:
9 sockets with bi-hexagon
No 40aD: sizes 3/16; 7/32; 1/4; 9/32;
5/16; 11/32; 3/8; 7/16; 1/2"
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 universal joint No 407



Code	ΔΔ g
96015302	830

40ma/25/8 Socket set 1/4"

In sturdy sheet steel case,
33 pieces
Content:
25 sockets with hexagon
No 40: sizes 3.2; 3.5; 4; 4.5; 5; 5.5;
6; 7; 8; 9; 10; 11; 12; 13; 14 mm
No 40a: sizes 3/16; 7/32; 1/4; 9/32;
5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
1 ratchet No 415
2 extensions
No 405/2 (54 mm),
No 405/6 (150 mm)
1 extension, flexible
No 406 (152 mm)
1 universal joint No 407
1 drive handle No 400
1 flexible handle No 403
1 T-handle No 404



Code	ΔΔ g
96010162	2070

40aD/10/8 Socket set 1/4"

In sturdy sheet steel case,
18 pieces
Content:
10 sockets with bi-hexagon
No 40aD: sizes 3/16; 7/32; 1/4; 9/32;
5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
1 ratchet No 415SG-QR
3 extensions
No 405/2 (54 mm),
No 405/4 (100 mm),
No 405/6 (150 mm)
1 universal joint No 407
1 drive handle No 400
1 bit-holder No 412
1 locking adaptor No 417/1



Code	ΔΔ g
96015306	1064

40aD/25/8 Socket set 1/4"

In sturdy sheet steel case,
33 pieces

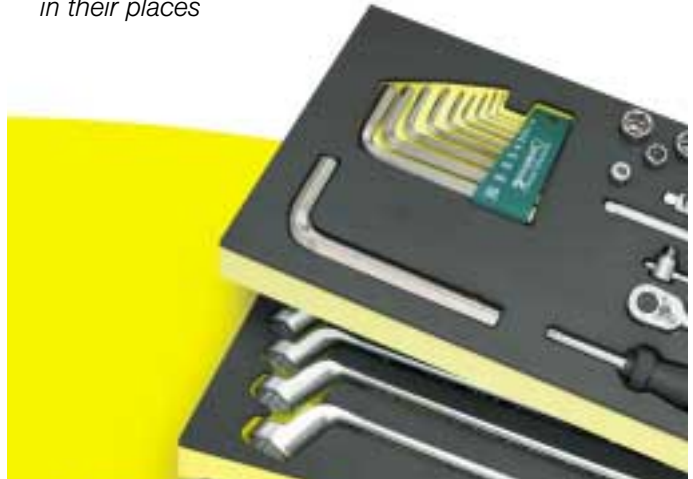
- Content:
- 10 sockets with bi-hexagon
No 40aD: sizes 3/16; 7/32; 1/4; 9/32;
5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
 - 10 sockets with bi-hexagon, long,
No 40aDL: sizes 3/16; 7/32; 1/4; 9/32;
5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
 - 5 UNIFLEX sockets with bi-hexagon
No 402a: sizes 1/4; 5/16; 3/8; 7/16; 1/2"
 - 1 ratchet No 415SG-QR
 - 3 extensions
No 405/2 (54 mm),
No 405/4 (100 mm),
No 405/6 (150 mm)
 - 1 universal joint No 407
 - 1 drive handle No 400
 - 1 bit-holder No 412
 - 1 locking adaptor No 417/1



Tool Control System

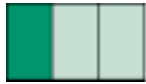
The safety inlay system

- Designed to fit our Tool Trolleys and Tool Boxes
- With yellow signal cut-outs to show whether all tools are in their places



Code	
96015305	g 2322

ES 1/4" + 10760CV



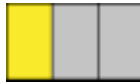
175 x 350 x 41 mm, 27 pieces

Code	
96838110	g 1035

	No 40	1/4" sizes 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
	No 400	1/4" 150 mm
	No 404	1/4" 116 mm
	No 405/2	1/4" 54 mm
	No 405/6	1/4" 150 mm
	No 407	1/4" 38 mm
	No 412	1/4"
	No 415	1/4"
	No 10760CV	sizes 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10; 12 mm

83 81 20 28 Empty tray 107

TCS 1/4" + 10760CV



175 x 350 x 37 mm, 27 pieces

Code	
96838176	g 987

	No 40	1/4" sizes 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
	No 400	1/4" 150 mm
	No 404	1/4" 116 mm
	No 405/2	1/4" 54 mm
	No 405/6	1/4" 150 mm
	No 407	1/4" 38 mm
	No 412	1/4"
	No 415	1/4"
	No 10760CV	sizes 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10; 12 mm

TCS 40/41/44



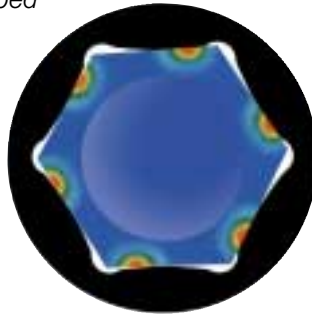
175 x 350 x 40 mm, 32 pieces

Code	g	
96830160	680	
No 40	1/4" \odot sizes 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm	
No 41K	1/4" \odot , \ominus sizes 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm	
No 44K	1/4" \odot , \bullet sizes 3; 4; 5; 6; 8 mm	
No 44P	1/4" \odot , \oplus sizes 1; 2; 3; 4	
No PZ 1221	1/4" \bullet , \oplus size 1	
No PZ 1222	1/4" \bullet , \oplus size 2	
No 400	1/4" \blacksquare 150 mm	
No 404	1/4" \blacksquare 116 mm	
No 405/2	1/4" \blacksquare \odot 54 mm	
No 405/6	1/4" \blacksquare \odot 150 mm	
No 407	1/4" \blacksquare \odot 38 mm	
No 412	1/4" \odot \odot	
No 415	1/4" \blacksquare	

STAHLWILLE AS-Drive

STAHLWILLE sockets are equipped with the AS Drive profile: this permits high transmission of forces to the lands of nuts and bolts without damaging them. No longer will you have to worry about stripping the corners off nuts and bolts.

*Anti-Slip Drive

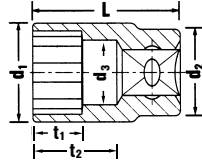


45

○ Sockets



metric sizes: DIN 3124/ISO 2725-1, ASME B 107.5M, E DIN EN 3709, American sizes: ASME B 107.1, Fed. Spec. GGG-W-641, SAE AS 954-E (test loads), HPQ high performance steel, chrome plated.



Code	\odot mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	\triangle	\square
02010007	7	10.5	16.5	6	24	6	12.5	19	10	
02010008	8	11.7	16.5	7	25	7	13.5	19	10	
02010009	9	13	16.5	8	25	7	13.5	19	10	
02010010	10	14.3	16.5	9	27	8.5	15.5	20	10	
02010011	11	15.6	16.5	10	27	8.5	13.7	21	10	
02010012	12	16.9	17.5	11	28	9.5	14.4	24	10	
02010013	13	18	17.5	12	30	11.5	16.1	25	10	
02010014	14	19.4	17.5	13	30	11.5	15.8	28	10	
02010015	15	20.6	19	14	31	12.5	19.2	30	10	
02010016	16	21.7	19	15	31	13.5	18.9	33	10	
02010017	17	23	19	16	31	12.5	18.6	37	10	
02010018	18	24.2	19	17	32	13.5	19.3	39	5	
02010019	19	25.2	19	18	32	13.5	19	39	5	
02010020	20	26.2	20	19	34	15.5	20.7	51	5	
02010021	21	27.7	21	20	34	15.5	20.5	53	5	
02010022	22	28.7	21	21	35	17	21.2	61	5	
02010024	24	31.5	24	21	35	18	21.2	92	5	

45a

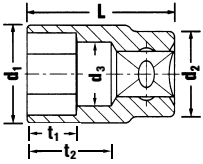
○ Sockets

Code	\odot "	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	\triangle	\square
02410016	1/4	9.7	16.5	5.2	24	6	12.5	18	10	
02410020	5/16	11.7	16.5	7	25	7	13.5	19	10	
02410022	11/32	12.5	16.5	8.1	25	7	13.5	19	10	
02410024	3/8	13.7	16.5	8.4	27	8.5	15.5	20	10	
02410028	7/16	15.7	16.5	10	28	9.5	15.1	20	10	
02410032	1/2	18	17.5	11.5	30	11.5	16.5	24	10	
02410034	9/16	20.2	19	13.1	31	12.7	16.8	28	10	
02410035	19/32	20.6	19	14	31	13	19.2	36	5	
02410036	5/8	21.7	19	15	31	13.5	18.9	31	5	
02410038	11/16	23.4	19	16.3	32	14.7	19.5	34	5	
02410040	3/4	25.2	19	18	32	15.9	19	41	5	
02410042	13/16	27.2	20.5	19.4	34	16.5	20.5	52	5	
02410044	7/8	28.7	22	21	35	18	21	59	5	
02410046	15/16	31.5	24	22.6	35	18.5	20.7	95	5	
02410048	1	33	25.5	24.2	35	18.5	20.2	97	5	

456 Sockets



metric sizes: DIN 3124/ISO 2725-1, ASME B 107.5M, E DIN EN 3709 (test loads),
American sizes: ASME B 107.1, Fed. Spec. GGG-W-641, SAE AS 954-E (test loads),
HPQ high performance steel, chrome plated.

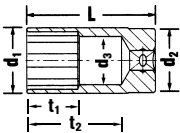


Code	Ø mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	△ g	⊠
02110007	7	10.5	16.5	6	24	6	12.5	19	10
02110008	8	11.7	16.5	7	25	7	13.5	19	10
02110009	9	13	16.5	8	25	7	13.5	20	10
02110010	10	14.3	16.5	9	27	8.5	15.5	20	10
02110011	11	15.6	16.5	10	27	8.5	13.7	21	10
02110012	12	16.9	17.5	11	28	9.5	14.4	24	10
02110013	13	18	17.5	12	30	11.5	16.1	25	10
02110014	14	19.4	17.5	13	30	11.5	15.8	29	10
02110015	15	20.6	19	14	31	12.5	19.2	30	10
02110016	16	21.7	19	15	31	13.5	18.9	34	10
02110017	17	23	19	16	31	12.5	18.6	45	10
02110018	18	24.2	19	17	32	13.5	19.3	42	10
02110019	19	25.2	19.6	18	32	13.5	19	43	10
02110020	20	26.2	20.5	19	34	15.5	20.7	53	10
02110021	21	27.7	21.8	20	34	15.5	20.5	59	10
02110022	22	28.7	21	21	35	17	21.2	59	10

460a Sockets



SAE AS 954-E, S.B.A.C. AS 40610/40611, ASME B 107.1,
HPQ high performance steel, chrome plated.

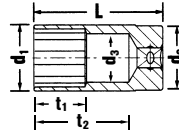


Code	Ø "	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	△ g	⊠
02620016	1/4	9.9	16.5	5.2	32	7	20.5	21	5
02620020	5/16	11.5	16.5	7	32	8.5	20.5	22	5
02620024	3/8	13.7	16.5	8.5	38	9	26.5	29	5
02620028	7/16	15.7	16.5	10	38	11	24.5	33	5
02620032	1/2	17.5	17.8	11.5	44	12	30	44	5

46 Sockets



extra deep, metric sizes: DIN 3124/ISO 2725-1, E DIN EN 3710,
E DIN EN 3709, ASME B 107.5M,
American sizes: ASME B 107.1, Fed. Spec. GGG-W-641, SAE AS 954-E,
HPQ high performance steel, chrome plated.



Code	Ø mm/"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	△ g	⊠
02020008	8 *	11.7	16.5	7	54	9	42.5	36	10
02020010	10	14.3	16.5	9	54	20	42.5	47	10
02020011	11	15.6	16.5	10	54	20	40.7	51	10
02020012	12	16.9	17.5	11	54	20	40.4	57	10
02020013	13	18	17.5	12	54	20	40.1	61	10
02020014	14	19.4	17.5	13	60	25	45.8	75	10
02020015	15	20.6	19	14	60	25	48.2	85	10
02020016	16	21.7	19.5	15	60	25	47.9	81	10
02020017	17	23	21	16	65	30	52.6	97	10
02020018	18	24.2	22	17	65	30	52.3	121	10
02020019	19	25.2	23	18	65	30	52	134	10
02020020	20*	26.2	24	19	65	30	51.7	158	10
02020208	20.8- ^{13/16} 1)	27.2	25	-	65	18	-	151	10
02250208	M20.8- ^{13/16} 2)*	27.2	25	-	65	12.5	-	177	10
02020021	21	27.7	25.5	20	65	30	51.5	137	5
02020022	22	28.7	26.5	21	65	30	51.2	178	5

1) with rubber insert for spark plugs

2) with magnet for spark plugs

* to be discontinued

46a Sockets

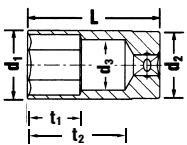
Code	Ø "	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	△ g	⊠
02420016	1/4	9.7	16.5	5.2	54	9	42.5	33	5
02420020	5/16	11.7	16.5	7	54	9	42.5	35	5
02420024	3/8	13.7	16.5	8.4	54	20	42.5	45	5
02420028	7/16	15.7	16.5	10	54	20	40.7	53	5
02420032	1/2	18	17.5	11.5	54	20	40.2	64	5
02420034	9/16	20.2	19	13.1	60	25	45.8	66	5
02420035	19/32	20.6	19	14	60	25	48.2	84	5
02420036	5/8	21.7	19.5	15	60	25	47.9	81	5
02420038	11/16	23.4	21.5	16.3	65	30	52.5	114	5
02420040	3/4	25.2	23	18	65	30	52	137	5
02420042	13/16	27.2	25	19.4	65	30	51.6	130	5
02420044	7/8	28.7	26.5	21	65	30	51.2	184	5
02420046	15/16	31.5	29	22.6	65	30	50.7	195	5
02420048	1	33	31	24.2	65	30	50.2	205	5



466* Sockets



extra deep, DIN 3124/ISO 2725-1, ASME B 107.5M, E DIN EN 3710, E DIN EN 3709 (test loads), HPQ high performance steel, chrome plated.



Code	mm/"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
02 12 00 10	10	14.3	16.5	9	54	20	42.5	49	10
02 12 00 11	11	15.6	16.5	10	54	20	40.7	52	10
02 12 00 12	12	16.9	17.5	11	54	20	40.4	57	10
02 12 00 13	13	18	17.5	12	54	20	40.1	53	10
02 12 00 14	14	19.4	17.5	13	60	25	45.8	78	10
02 12 00 15	15	20.6	19	14	60	25	48.2	73	10
02 12 00 16	16	21.7	19.5	15	60	25	47.9	96	10
02 12 00 17	17	23	21	16	65	30	52.6	101	10
02 12 00 18	18	24.2	22	17	65	30	52.3	126	10
02 12 00 19	19	25.2	23	18	65	30	52	119	10
02 12 00 20	20	26.2	24	19	65	30	51.7	164	10
02 12 02 08	20.8- ^{13/16} 1)	27.2	25	-	65	18	-	156	10
02 12 00 21	21	27.7	25.5	20	65	30	51.5	179	10
02 12 00 22	22	28.7	26.5	21	65	30	51.2	187	10

1) with rubber insert for spark plugs

* to be discontinued

5100 Rubber insert

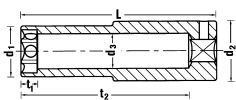
for size 20.8 mm (No 46, 466; 51; 51S; 1040; 4328).

Code	g	
09010001	5	5

3466 Spark plug socket



extra deep, with magnet, HPQ high performance steel, chrome plated.

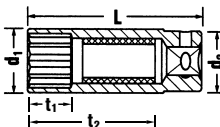


Code	mm/"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
02 14 00 36	16 - 5/8	21.8	25.5	15	85	7	72.9	198	5

4600 Spark plug socket



extra deep, with rubber insert, HPQ high performance steel, chrome plated.

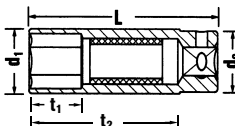


Code	mm/"	d ₁ mm	d ₂ mm	L mm	t ₁ mm	t ₂ mm	g	
02 12 00 36	16 - 5/8	21.7	19.5	60	15	47.8	88	10

4606 Spark plug socket



extra deep, with rubber insert, HPQ high performance steel, chrome plated.



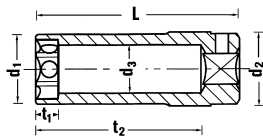
Code	mm/"	d ₁ mm	d ₂ mm	L mm	t ₁ mm	t ₂ mm	g	
02 13 00 18	18 - 11/16	24.2	22	65	18	52.8	132	10

Assembly of spark plugs on motorcycles, mokicks, mofas

4660 Spark plug socket



extra deep, with magnet, outside hexagon 19 mm, HPQ high performance steel, chrome plated.

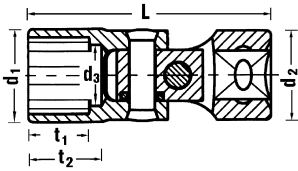


Code	mm/"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
02 13 00 36	16 - 5/8	21.7	23	15.5	64	7.5	51.9	113	5

47 UNIFLEX sockets



SAE AS 954-E (American sizes),
HPQ high performance steel, chrome plated.



Code	mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δ _Δ g	
02040010	10	14.3	17.5	9	45.5	7	12	51	1
02040011	11	15.6	17.5	10	47.5	11	14	55	1
02040012	12	16.9	17.5	11	48	11	14.5	54	1
02040013	13	18.3	17.5	12	48	12	14.5	53	1
02040014	14	19.4	17.5	13	48.5	13	14.5	59	1
02040015	15	20.6	17.5	14	48.5	13	14.5	56	1
02040016	16	21.8	17.5	15	51.5	14	17	58	1
02040017	17	23	17.5	16	53.5	15	18.5	63	1
02040018	18	24.2	17.5	17	54.5	16	18.5	61	1
02040019	19	25.5	17.5	18	57	16	21	68	1

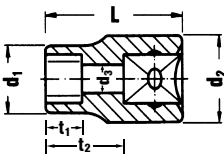
47a UNIFLEX sockets

Code	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δ _Δ g	
02440024	3/8	13.7	17.5	8.5	45.5	7	12	50	1
02440028	7/16	15.8	17.5	10	47.5	11	14	54	1
02440032	1/2	18.3	17.5	11.5	47.5	11.5	14	57	1
02440034	9/16	19.7	17.5	13.1	48.5	13	14.5	55	1
02440036	5/8	21.6	17.5	15	51.5	14	17	59	1
02440038	11/16	23.5	17.5	16.3	53.5	16	18.5	58	1
02440040	3/4	25.5	17.5	18	57	16	21	67	1

45TX Sockets



for external TORX® screws,
HPQ high performance steel, chrome plated.



Code	size	mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δ _Δ g	
02270005	E5	4.7	7	16.5	2.8	28	5	16.5	23	10
02270006	E6	5.7	8	16.5	3.6	28	5.5	16.5	23	10
02270007	E7	6.2	9	16.5	3.8	28	6.5	16.5	24	10
02270008	E8	7.5	10.5	16.5	4.3	28	7	16.5	22	10
02270010	E10	9.4	13	16.5	5.6	28	8	16.5	27	10
02270012	E12	11.1	14.9	16.5	7.2	28	9.5	16.5	28	10
02270014	E14	12.9	16.5	17.3	8	28	10	16.5	34	10

45TX/7 Set: Sockets



for external TORX® screws.
Content:
E5; E6; E7; E8; E10; E12; E14

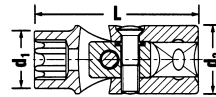


Code	Δ _Δ g	
96022702	219	1

in carton packing

47TX UNIFLEX sockets

for external TORX® screws,
Chrome Alloy Steel, chrome plated.



Code	size	mm	d ₁ mm	d ₂ mm	L mm	Δ _Δ g	
02070008	E8	7.5	11.5	19	43	56	1
02070010	E10	9.4	13.8	19	44	61	1
02070012	E12	11.1	16	19	46	66	1
02070014	E14	12.9	17.8	19	48	75	1

STAHLWILLE's HPQ inserts

STAHLWILLE HPQ* sockets are manufactured from selected tough steel alloys. The result: they are extremely durable. HPQ sockets are free of cadmium and are therefore suitable for use on titanium alloy parts and titanium fasteners as used e.g. in the aerospace industry, where safety is a crucial factor.



*High Performance Quality

45aSP Sockets spline-drive

HPQ
MS-33787, MIL-W-8982,
HPQ high performance steel, chrome plated.



Code	Spline size	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	ΔΔ g	
0201 10 12	12	3/8	13.7	16.5	8.6	26.5	9	15	24	1
0201 10 14	14	7/16	16	17.3	10.4	28	11	14.5	37	1
0201 10 16	16	1/2	18	18.3	12.2	28	11.5	14	28	1

45aPSP Socket spline-drive

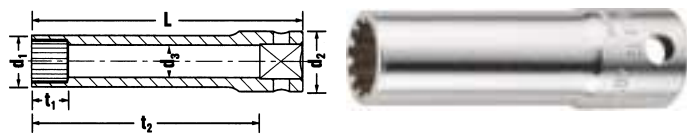
HPQ
MS-33787, MIL-W-8982,
for disassembling jet engines, series CFM 56,
HPQ high performance steel, gun finish.



Code	Spline size	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	ΔΔ g	
2241 00 28	14	7/16	18.8	18.8	10.4	28	11	14.5	36	10

46aSP Sockets spline-drive

HPQ
extra deep, bolt clearance,
MS-33787, MIL-W-8982,
HPQ high performance steel, chrome plated.



Code	Spline size	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	ΔΔ g	
0202 10 12	12	3/8	13.7	16.5	8.6	54	9	42.5	52	1
0202 10 14	14	7/16	16	17.3	10.4	54	11	42.5	63	1

45aP Socket

AS-drive HPQ
ASME B 1071, Fed. Spec. GGG-W-641,
SAE AS 954-E (test loads), for disassembling jet engines, series CFM 56,
HPQ high performance steel, gun finish.



Code	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	ΔΔ g	
0243 00 20	5/16	11.9	16.5	8.1	25	7	13.5	19	10

49 INHEX sockets

for socket head screws, DIN 7422,
Chrome Alloy Steel, chrome plated.



Code	"	L ₁ mm	L ₂ mm	d mm	ΔΔ g	
0205 00 03	3	52	20	17.8	38	5
0205 00 04	4	52	20	17.8	40	5
0205 00 05	5	52	20	17.8	44	5
0205 00 06	6	52	20	17.8	46	5
0205 00 07	7	52	20	17.8	51	5
0205 00 08	8	52	20	17.8	55	5
0205 00 10	10	52	20	17.8	62	5

49a INHEX sockets

Code	"	L ₁ mm	L ₂ mm	d mm	ΔΔ g	
0245 00 08	1/8	52	20	17.8	40	5
0245 00 09	9/64	52	20	17.8	40	5
0245 00 10	5/32	52	20	17.8	40	5
0245 00 12	3/16	52	20	17.8	44	5
0245 00 14	7/32	52	20	17.8	46	5
0245 00 16	1/4	52	20	17.8	48	5
0245 00 20	5/16	52	20	17.8	55	5
0245 00 24	3/8	52	20	17.8	61	5

2049 INHEX sockets

for socket head screws,
extra long, DIN 7422,
Chrome Alloy Steel, chrome plated.



Code	mm	L ₁ mm	L ₂ mm	d mm	ΔΔ g	
0215 10 04	4	100	68	17.8	45	5
0215 10 05	5	100	68	17.8	50	5
0215 10 06	6	100	68	17.8	57	5
0215 12 08	8	120	88	17.8	85	5
0215 12 10	10	120	88	17.8	106	5

INHEX sockets

for socket head screws, DIN 7422, special lengths, Chrome Alloy Steel, chrome plated.

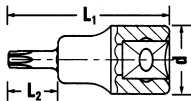


Code	No	mm	L ₁ mm	L ₂ mm	d mm	g	
02 15 12 04	1049/4*	4	120	88	17.8	47	5
02 15 72 05	3049/5*	5	72	40	17.8	46	5
02 15 85 06	1049/6*	6	85	53	17.8	55	5
02 15 10 07	1049/7	7	100	68	17.8	66	5
02 15 24 08	3049/8	8	24	6.5	19	28	5

* to be discontinued

49TX Screwdriver sockets

for inside TORX® screws, Chrome Alloy Steel, chrome plated.



Code	size	mm	L ₁ mm	L ₂ mm	d mm	g	
02 10 00 09	T9	2.5	49	17	17.8	45	5
02 10 00 10	T10	2.7	49	17	17.8	45	5
02 10 00 15	T15	3.3	49	17	17.8	45	5
02 10 00 20	T20	3.8	49	17	17.8	46	5
02 10 00 25	T25	4.4	49	17	17.8	46	5
02 10 00 27	T27	5	49	17	17.8	46	5
02 10 00 30	T30	5.5	49	17	17.8	47	5
02 10 00 40	T40	6.6	49	17	17.8	48	5
02 10 00 45	T45	7.8	49	17	17.8	49	5

49TX/8 Set: Screwdriver sockets

for inside TORX® screws. T9; T10; T15; T20; T25; T27; T30; T40

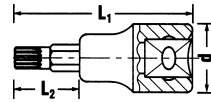


Code	g	
9602 1001	456	1

in carton packing

49X Screwdriver sockets

for tri-square socket head screws (XZN®), DIN 2324, Chrome Alloy Steel, chrome plated.



Code	size	L ₁ mm	L ₂ mm	d mm	g	
02 06 00 05	M5	52	20	17.8	45	5
02 06 00 06	M6	52	20	17.8	47	5
02 06 00 08	M8	52	20	17.8	56	5
02 06 00 10	M10	52	20	17.8	63	5

3049X Screwdriver sockets

for tri-square socket head screws (XZN®), extra long, DIN 2324, Chrome Alloy Steel, chrome plated.



Code	size	L ₁ mm	L ₂ mm	d mm	g	
02 26 12 08	M8	120	88	17.8	80	5
02 26 12 10	M10	120	88	17.8	106	5

Screwdriver sockets

for tri-square socket head screws (XZN®), special lengths, DIN 2324, Chrome Alloy Steel, chrome plated.



Code	No	size	L ₁ mm	L ₂ mm	d mm	g	
02 16 00 08	1049x*	M8	75	43	17.8	63	5
02 16 00 10	2049x*	M10	105	73	17.8	94	5

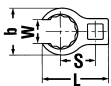
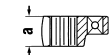
* to be discontinued



440 CROW-RING spanners



Caution! Modified settings on torque wrench (refer to note on page 192)
 Fed. Spec. GGG-C-1507,
 Type 1, Class 1, 2, 3
 (American sizes),
 Chrome Alloy Steel, chrome plated.



Code	mm	"	L mm	b mm	a mm	S mm	W mm	g	
01 190008	8	1/4	23.8	12.7	8	12.3	6.3	11	1
01 190009	9	1/4	28.5	18.2	13.5	14	6.7	21	1
01 190010	10 ¹⁾	1/4	28.4	18.2	13.5	14	7.1	16	1
01 190011	11	1/4	28	18.2	13.5	14	8.6	17	1
01 190012	12 ¹⁾	1/4	30.8	20.6	14	15.7	9	20	1
01 190013	13	1/4	32	22.2	14	16.4	10	20	1
01 190014	14 ¹⁾	1/4	31.7	22.2	14	16.4	11.1	20	1
02 190015	15	3/8	36.5	24.6	17.5	19.1	11.9	34	1
02 190016	16	3/8	36.1	24.6	17.5	19.1	13	27	1
02 190017	17 ²⁾	3/8	39.2	27.3	17.5	20.5	14	40	1
02 190018	18	3/8	40.8	29	18.5	21.3	14.8	45	1
02 190019	19 ²⁾	3/8	40.6	29	18.5	21.3	15.8	40	1
02 190020	20	3/8	42.9	31.3	18.5	22.5	15.8	54	1
02 190021	21	3/8	42.8	31.3	18.5	22.5	16.2	45	1
02 190022	22 ²⁾	3/8	45.3	33.5	19	23.6	17	57	1
02 190023	23	3/8	47.5	35.7	19.5	24.6	17.5	71	1
02 190024	24 ²⁾	3/8	47.3	35.7	19.5	24.6	18	57	1
02 190025	25	3/8	49.3	37.7	20	25.7	19	80	1
02 190026	26	3/8	49.3	37.7	20	25.7	19	63	1
02 190027	27	3/8	52.8	40	21.4	25.7	20	100	1
02 191027	27DC ³⁾	3/8	57.2	42	15	29.3	20	92	1
03 190028	28	1/2	56.8	42.1	22.5	29.3	21	120	1
03 190030	30	1/2	63	48	22.5	32.5	22	155	1
03 190032	32	1/2	62.5	48	22.5	32.5	24	137	1
03 190034	34	1/2	64.2	50	24	33.5	27	148	1
03 190036	36	1/2	66.5	51.9	24	34.6	27	150	1
03 190038	38	1/2	68.1	53.9	24	35.6	28.6	147	1
03 190040	40	1/2	71.8	57.9	24.5	37.7	31	160	1
03 190041	41	1/2	71.8	57.9	24.5	37.7	31	169	1
03 190042	42	1/2	71	57.9	24.5	37.7	33.2	189	1
03 190046	46	1/2	77.7	64.2	26	40.9	34.1	229	1
03 190050	50	1/2	83.2	70.5	27.5	44.1	39.7	295	1

¹⁾ For use on hydraulics (TORNADO),
 for union nuts on fuel injection leads on 4-cylinder Mercedes-Benz diesel
 engines, models 601, 190D, C200D, E200D, turbo diesel, 603, G300D,
 G350D, turbo, E300D off-roader, turbo and S350 turbo diesel

²⁾ For use on suction or pressure lines within expansion valve of air
 conditioning unit (DaimlerChrysler)

³⁾ Slim-line version for setting of electronic injection on 440-HP-engines
 Mercedes-Benz series OM 442

440a CROW-RING spanners

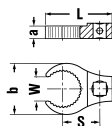
Code	"	"	L mm	b mm	a mm	S mm	W mm	g	
01 490024	3/8 ¹⁾	1/4	28.4	18.2	13.5	14	7.1	14	1
01 490028	7/16	1/4	28.4	18.2	13.5	14	8.6	14	1
01 490032	1/2	1/4	30.5	20.6	14	15.7	10	19	1
01 490034	9/16	1/4	31.7	22.2	14	16.4	11.1	23	1
02 490036	5/8	3/8	36.5	24.6	17.5	19.1	11.9	33	1
02 490038	11/16	3/8	39.2	27.3	17.5	20.5	14	36	1
02 490040	3/4	3/8	40.9	29	18.5	21.3	14.2	44	1
02 490042	13/16	3/8	42.9	31.3	18.5	22.5	15.8	51	1
02 490044	7/8	3/8	45.2	33.5	19	23.6	17.5	62	1
02 490046	15/16	3/8	47.2	35.7	19.5	24.6	18.3	63	1
02 490048	1	3/8	49.3	37.7	20	25.7	19	71	1
02 490050	1 1/16	3/8	52.8	40	21.4	28.2	20	84	1
03 490052	1 1/8	1/2	56.8	42.1	22.5	29.3	21	110	1
03 490056	1 1/4	1/2	62.5	48	22.5	32.5	23.8	137	1
03 490058	1 5/16	1/2	62.3	48	22.5	32.5	24.6	130	1
03 490060	1 3/8	1/2	64.2	50	24	33.5	27	138	1
03 490062	1 7/16	1/2	66.5	51.9	24	34.6	27	143	1
03 490064	1 1/2	1/2	68.1	53.9	24	35.6	28.6	152	1
03 490065	1 9/16	1/2	70.1	55.9	24	36.7	29.4	172	1
03 490066	1 5/8	1/2	71.8	57.9	24.5	37.7	31	169	1
03 490068	1 3/4	1/2	75.6	62	25.5	39.8	33.2	199	1
03 490069	1 13/16	1/2	77.7	64.2	26	40.9	34.1	229	1
03 490072	2	1/2	83.2	70.5	27.5	44.1	39.7	277	1
03 490076	2 1/4	1/2	91.2	78.7	29.5	48.2	42.8	337	1
03 490077	2 5/16	1/2	93.3	80.9	30	49.2	43.6	309	1
03 490078	2 3/8	1/2	95.2	83	30.5	50.2	46	385	1

¹⁾ For Volvo aero-engines, types "JAS"

440 MJ CROW-RING spanners



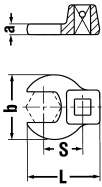
Caution! Modified settings on torque wrench (refer to note on page 192),
 EN 4108, for pipe unions with straight cylindrical involute toothing
 on EJ 200 engines,
 HPQ high performance steel, chrome plated.



Code	Threaded nut	mm	"	L mm	b mm	a mm	S mm	W mm	g	
01 210010	MJ10	DN04	1/4	31.9	22	8	17	6.5	25	1
01 210014	MJ14	DN06	1/4	36.5	27	8	19.5	8.5	30	1
02 210016	MJ16	DN08	3/8	43.8	31	8	24	10.5	50	1
02 210018	MJ18	DN10	3/8	45.2	33	8	25	13	45	1
02 210020	MJ20	DN12	3/8	46.2	35	8	26	15	50	1
02 210022	MJ22	DN14	3/8	48.4	37	9	27	17.5	55	1
02 210024	MJ24	DN16	3/8	49.5	39	9	28	19.7	60	1
02 210027	MJ27	DN18	3/8	54.4	44	10	31	21.5	75	1
02 210030	MJ30	DN20	3/8	60.8	50	10	36	23.7	95	1

540 CROW-FOOT spanners

Caution! Modified settings on torque wrench (refer to note on page 192), Chrome Alloy Steel, chrome plated.



Code	mm	"	L mm	b mm	a mm	S mm	g	
01200008	8	1/4	25.5	19.8	6.3	14.8	21	1
01200009	9	1/4	25.5	19.8	6.3	14.6	21	1
01200010	10	1/4	25.5	19.8	6.3	14.6	20	1
02200011	11	3/8	32	22.2	6.3	17.4	36	1
02200012	12	3/8	34.3	25.4	6.3	18.2	37	1
02200013	13	3/8	34.3	25.4	6.3	17.8	36	1
02200014	14	3/8	37.7	30	6.3	20.8	46	1
02200015	15	3/8	37.7	30	6.3	20.4	45	1
02200016	16	3/8	37.7	30	6.3	19.9	45	1
02200017	17	3/8	42.5	38	6.3	23.8	62	1
02200018	18	3/8	42.5	38	6.3	22.9	61	1
02200019	19	3/8	42.5	38	6.3	22.5	64	1
02200020	20	3/8	42.5	38	6.3	25	55	1
02200021	21	3/8	44.5	41	6.3	23.6	59	1
02200022	22	3/8	44.5	41	6.3	24.2	64	1
02200023	23	3/8	44.5	41	6.3	25.6	63	1
02200024	24	3/8	44.5	41	6.3	26.3	60	1
02200025	25	3/8	47	45	8	26.4	75	1
02200026	26	3/8	47	45	8	27.6	80	1
02200027	27	3/8	47	45	8	27.6	76	1
02200028	28	3/8	50	50	8	29.2	78	1
02200030	30	3/8	50	50	8	29.2	84	1
02200032	32	3/8	53	57	8	30.5	95	1
02200034	34	3/8	54.5	60	8	31.6	107	1
02200036	36	3/8	56.5	62	8	32.8	100	1
02200040	40	3/8	63	70	8	37.6	130	1
02200041	41	3/8	63	70	8	37.2	130	1
02200042	42	3/8	63	70	8	37.8	125	1
02200046	46	3/8	72	82	8	43.7	191	1
02200050	50	3/8	75	88	8	45.4	217	1

540a CROW-FOOT spanners

Code	"	"	L mm	b mm	a mm	S mm	g	
02500028	7/16	3/8	32	22.2	6.3	17.4	34	1
02500032	1/2	3/8	34.3	25.4	6.3	18.2	37	1
02500034	9/16	3/8	33.8	25.4	6.3	19.1	37	1
02500036	5/8	3/8	37.7	30	6.3	20.4	44	1
02500038	11/16	3/8	37	30	6.3	22.1	45	1
02500040	3/4	3/8	42.5	38	6.3	24	66	1
02500042	13/16	3/8	42	38	6.3	25	59	1
02500044	7/8	3/8	44.5	41	6.3	25.9	65	1
02500048	1	3/8	47	45	8	26.7	78	1
02500050	1 1/16	3/8	47	45	8	27.7	78	1
02500052	1 1/8	3/8	50	50	8	28.6	84	1
02500054	1 3/16	3/8	50	50	8	29.5	83	1
02500056	1 1/4	3/8	53	57	8	30.4	101	1
02500058	1 5/16	3/8	53	57	8	31.3	101	1
02500060	1 3/8	3/8	54.5	60	8	32.3	105	1
02500062	1 7/16	3/8	56.5	62	8	33.2	107	1
02500064	1 1/2	3/8	58	65	8	34.5	118	1
02500065	1 9/16	3/8	59.5	68	8	36.5	126	1
02500066	1 5/8	3/8	63	70	8	37.4	140	1
02500068	1 3/4	3/8	68	76	8	40.8	161	1
02500070	1 7/8	3/8	72	82	8	43.1	205	1
02500072	2	3/8	75	88	8	45	214	1
03500078	2 3/8	1/2	81	95	8	51.5	214	1

447 Adaptor



Caution! Modified settings on torque wrench (refer to note on page 192), American sizes: SAE AS 954-E, HPQ high performance steel, gun finish.



Code	mm	d1 mm	d2 mm	h1 mm	h2 mm	S mm	g	
02181007	7	11.5	19	6	11	50.8	30	1
02181008	8	12.4	19	6	11	50.8	30	1
02181009	9	14	19	8	11	50.8	40	1
02181010	10	15.6	19	8	11	50.8	40	1
02181013	13	19.3	19	9.2	11	50.8	55	1

447a Adaptor

Code	"	d1 mm	d2 mm	h1 mm	h2 mm	S mm	g	
02470016	1/4	10.4	19	6	11	50.8	27	1
02470020	5/16	12.4	19	6	11	50.8	29	1
02470024	3/8	14.9	19	8	11	50.8	41	1
02470028	7/16	17	19	8	11	50.8	40	1
02470032	1/2	19	19	9.2	11	50.8	56	1
02470034	9/16	21	19	9.2	11	50.8	61	1
02470036	5/8	23	19	12	11	50.8	73	1

447aSP Spline-Drive adaptor



Caution! Modified settings on torque wrench (refer to note on page 192), MS-33787, MIL-W-8982, HPQ high performance steel, gun finish.



Code	Spline size	d1 mm	d2 mm	h1 mm	h2 mm	S mm	g		
02480014	7	7/32	9.4	19	6	11	50.8	27	1
02480016	8	1/4	10.4	19	6	11	50.8	27	1
02480018	9	9/32	11.5	19	6	11	50.8	29	1
02480020	10	5/16	12.4	19	6	11	50.8	29	1
02480024	12	3/8	14.9	19	8	11	50.8	40	1
02480028	14	7/16	17	19	9.2	11	50.8	50	1
02480032	16	1/2	19	19	9.2	11	50.8	59	1
02480034	18	9/16	21	19	9.2	11	50.8	55	1
02480036	20	5/8	23	19	12	11	50.8	74	1

45CL Clip strips

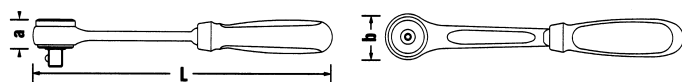
for socket retention, with 9 or 10 retaining clips. Supplied without sockets.



Code	size	L mm	Δ g	
80450001	1	200	40	5
80450002	2	300	58	5

Drive tools and accessories

3/8" \square , finish: Chrome Alloy Steel, chrome plated.



422 Ratchet

fine tooth, reversible (60 teeth), for use in confined spaces, re-engages after movement of 6°, DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	Δ g	
12230011	194	32	24	260	1

435 Ratchet

reversible (30 teeth), DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	Δ g	
12110010	193	29	17	233	5

435QR QuickRelease ratchet



reversible (30 teeth), with QuickRelease safety locks and 2-component handles, DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	Δ g	
12110020	193	29	17	244	1

QR The QuickRelease system

Ratchets, handles, extensions, universal joints with safety locks.

- Secure, rapid connection between the individual components to form a single combined unit.
- Can only be separated by releasing the locking mechanism.
- Variable combinations of components possible.



435QR/3 QuickRelease set



Content:
Ratchet 435QR
Extension 427/3QR, 76 mm
Extension 427/6QR, 160 mm
Extension 427/10QR, 240 mm



Code	Δ g	
96121103	722	1

435SG-QR QuickRelease ratchet



reversible, (30 teeth), with QuickRelease safety locks and steel handle, DIN 3122/ISO 3315.

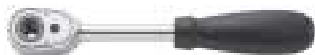


Code	L mm	b mm	a mm	Δ g	
12110030	193	29	17	275	1

435B Ratchet

reversible, with inside hexagon $\frac{5}{16}$ " , DIN 3126/ISO 1173 D 8 for Bits Screwdriver sockets $\frac{5}{16}$ " (30 teeth).

Internal hex drive with a collar-thrust spring (registered design). Bits are easy to insert, lock securely in position and can be removed just as easily; even hex bits with a wide groove (Type E, DIN 3126/ISO 1173).



Code	L mm	b mm	a mm	g	g	g
12 1300 11	193	29	17	220	1	1

445 Ratchet adaptor

reversible (20 teeth).



Code	L mm	∅ mm	g	g	g
12 1400 00	53	30	135	1	1

450* RATCHFIX ratchet

reversing lever near handle. (30 teeth), DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	g	g	g
12 1500 01	196	30	16	249	1	1

* to be discontinued

452 Flexible joint ratchet

reversible (60 teeth), handle may be raised or lowered by approx. 90°. Lockable in following positions: straight, 30° up, 60° up, 30° down. Unlocked by depressing button in handle, registered design.



Code	L mm	b mm	a mm	g	g	g
12 2600 01	300	34	24	500	1	1

Spare parts for ratchets No 422, 452

7350/5 Spare parts set

Content:
1 Pinion
1 Pawl
1 Switching disk
1 Spring
3 Screws

Code	g	g	g
5925 1005	85	1	1

for ratchets from 12/97

Spare parts for ratchets No 435, 435SG, 438, 439

4350 Spare parts set

Content:
1 Pinion
1 Pawl
1 Lever with pin
1 Ball
1 Compression Spring
2 Screws

Code	g	g	g
1902 0000	50	1	1

for ratchets from 1992

Spare parts for ratchets No 435QR, 435SG-QR

4350 QR Spare parts set



Content:
1 Pinion
1 Pawl
1 Lever with pin
1 Ball
1 Compression Spring
2 Screws

Code	g	g	g
1902 0020	51	1	1

Spare parts for ratchet No 450

4500* Spare parts set

Content:
1 Pinion
1 Pawl
1 Ball
1 Compression Spring
3 Screws

Code	g	g	g
19 1500 00	52	1	1

* to be discontinued

421 Speeder brace

working radius 85 mm,
DIN 3122/ISO 3315.



Code	L mm	⚖ g	📦
12100010	386.5	385	5

453 Speeder brace

with steel handle,
for greater axial power
transmission, detachable palm
head, working radius 85 mm,
DIN 3122/ISO 3315.



Code	L mm	⚖ g	📦
12100002	408	619	1

424 Flexible handle

DIN 3122/ISO 3315.



Code	L mm	⚖ g	📦
12060010	253.5	222	5

425 Sliding T-handle

DIN 3122/ISO 3315.



Code	L mm	⚖ g	📦
12070000	165	133	5

425QR QuickRelease sliding T-handle



with QuickRelease safety locks.



Code	L mm	⚖ g	📦
12071000	165	148	1

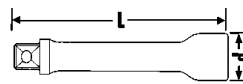
444 T-handle extension



Code	L ₁ mm	L ₂ mm	⚖ g	📦
12020001	455	190	437	5

427 Extensions

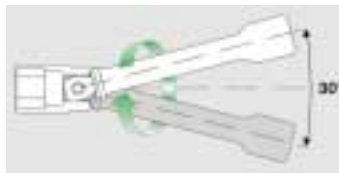
DIN 3123/ISO 3316.



Code	size	L mm	d mm	⚖ g	📦
12010005	1.5	38	17	36	5
12010001	3	76	17	67	5
12010006	5	125	17	104	5
12010002	6	160	17	127	5
12010003	10	240	17	188	5
12010004	18	455	17	345	5

Extensions with wobble-drive

swivel angle 15°
each side,
max. torque 80 N m.



Code	No	L mm	d mm	⚖ g	📦
12010007	427/3W	76	17	67	5
12010008	427/5W	125	17	104	5
12010009	427/6W	160	17	127	5

QuickRelease extensions



DIN 3123/ISO 3316.



Code	No	L mm	d mm	⚖ g	📦
12011001	427/3QR	76	17	66	1
12011002	427/6QR	160	17	127	1
12011003	427/10QR	240	17	185	1

433/1 Locking adaptor

with hexagon key wrench
No 10760aCV 1/8".



Code	L mm	d mm	⚖ g	📦
96122701	52	18	57	1

434 Extension, flexible

(right hand rotation only),
maximum torque 7 N m.



Code	L mm	d mm	△△ g	
12040000	194	17	109	5

1225 Special extension



Code	L mm	d mm	△△ g	
12250001	150	17	128	5

13220 Special extension

for removing Boroscope
plugs on EJ 200 jet engines
(Eurofighter),
with Boroscope plug locking,
external hexagon size 16 mm.



Code	L mm	△△ g	
12270020	355	362	1

428 Universal joint

DIN 3123/ISO 3316.

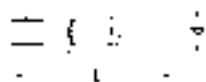


Code	L mm	d mm	△△ g	
12020000	46	18.8	55	5

428QR QuickRelease universal joint



DIN 3123/ISO 3316, with QuickRelease safety locks.



Code	L mm	d mm	△△ g	
1202 1000	60	19	66	1

431 Adaptor



3/8" socket x 1/4" plug
(10 x 6.3),
maximum torque 62 N m,
DIN 3123/ISO 3316,
HPQ high performance steel



Code	L mm	d mm	△△ g	
12030001	28	17.2	26	5

432 Adaptor



3/8" socket x 1/2" plug
(10 x 12.5),
DIN 3123/ISO 3316,
HPQ high performance steel



Code	L mm	d mm	△△ g	
12030003	31	17.2	36	5

409M/432M Set adaptors, 3 pieces /514M/3

1/4" socket x 3/8" plug,
3/8" socket x 1/2" plug,
1/2" socket x 3/4" plug.



Code	△△ g	
96 12 1002	120	1

432M Adaptor

3/8" socket x 1/2" plug
(10 x 12.5 mm).



Code	L mm	∅ mm	△△ g	
120300 10	16	32	22	1

442 Bit holder

1/4" inside hexagon,
DIN 3126 form D 6.3/
ISO 1173 form D 6.3.
Internal hex drive with a collar-thrust
spring (registered design). Bits are
easy to insert, lock securely in
position and can be removed just as
easily; even hex bits with a wide
groove (Type E, DIN 3126/ISO 1173).



Code	L mm	d mm	△△ g	
12 18 0026	32	16.5	30	5

443 Bit holder

○ 5/16" inside hexagon,
DIN 3126 form D 8/
ISO 1173 form D 8.

Internal hex drive with a collar-thrust spring (registered design). Bits are easy to insert, lock securely in position and can be removed just as easily; even hex bits with a wide groove (Type E, DIN 3126/ISO 1173).



Code	L mm	d mm	△△ g	☐
12 180030	32	16.5	39	5

45/11/4 Socket set 3/8" ☐

In sturdy sheet steel case,

15 pieces

Content:

11 sockets with bi-hexagon

No 45: sizes 8; 10; 11; 12; 13; 14;

15; 16; 17; 18; 19 mm

1 ratchet No 435

2 extensions

No 427/3 (76 mm),

No 427/10 (240 mm)

1 universal joint No 428



Code	△△ g
96020109	1602

456/11/4 Socket set 3/8" ☐

In sturdy sheet steel case,

15 pieces

Content:

11 sockets with hexagon

No 456: sizes 8; 10; 11; 12; 13; 14;

15; 16; 17; 18; 19 mm

1 ratchet No 435

2 extensions

No 427/3 (76 mm),

No 427/10 (240 mm)

1 universal joint No 428



Code	△△ g
9602 1133	1780

45/14/5i Socket set 3/8" ☐

In sturdy sheet steel case,

19 pieces

Content:

14 sockets with bi-hexagon

No 45: sizes 8; 9; 10; 11; 12; 13; 14;

15; 16; 17; 18; 19; 21; 22 mm

1 ratchet No 435

2 extensions

No 427/3 (76 mm),

No 427/10 (240 mm)

1 T-handle No 425

1 universal joint No 428



Code	△△ g
96020132	1866

45/14/5i TCS Socket set 3/8" ☐

In sturdy sheet steel case,
in TCS inlay,

19 pieces

Content:

14 sockets with bi-hexagon

No 45: sizes 8; 9; 10; 11; 12; 13; 14;

15; 16; 17; 18; 19; 21; 22 mm

1 ratchet No 435

2 extensions

No 427/3 (76 mm),

No 427/10 (240 mm)

1 T-handle No 425

1 universal joint No 428



Code	△△ g
96020133	1866

456/14/5i Socket set 3/8" ☐

In sturdy sheet steel case,

19 pieces

Content:

14 sockets with hexagon

No 456: sizes 8; 9; 10; 11; 12; 13;

14; 15; 16; 17; 18; 19; 21; 22 mm

1 ratchet No 435

2 extensions

No 427/3 (76 mm),

No 427/10 (240 mm)

1 T-handle No 425

1 universal joint No 428



Code	△△ g
9602 1132	1866

QR The QuickRelease system

*Ratchets, handles, extensions,
universal joints with
safety locks.*

- *Secure, rapid connection between the individual components to form a single combined unit.*
- *Can only be separated by releasing the locking mechanism.*
- *Variable combinations of components possible.*



45/14/5iQR Socket set 3/8"



In a sturdy ABS plastic case,
19 pieces
Content:
14 sockets with bi-hexagon
No 45: sizes 8; 9; 10; 11; 12; 13; 14;
15; 16; 17; 18; 19; 21; 22 mm
1 ratchet No 435QR
2 extensions
No 427/3QR (76 mm),
No 427/10QR (240 mm)
1 T-handle No 425QR
1 universal joint No 428QR



Code	ΔΔ g
96020180	1650

45ma/28/5 Socket set 3/8"

In sturdy sheet steel case,
33 pieces
Content:
28 sockets with bi-hexagon
No 45: sizes 7; 8; 9; 10; 11; 12; 13;
14; 15; 16; 17; 18; 19; 20; 21; 22 mm
No 45a: sizes 1/4; 5/16; 11/32; 3/8; 7/16;
1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8"
1 ratchet No 435
2 extensions
No 427/3 (76 mm),
No 427/10 (240 mm)
1 T-handle No 425
1 universal joint No 428



Code	ΔΔ g
96020122	2920

45/14/5N Socket set 3/8"

In sturdy sheet steel case,
19 pieces
Content:
12 sockets with bi-hexagon
No 45: sizes 8; 9; 10; 11; 12; 13; 14;
15; 16; 17; 18; 19 mm
2 sockets with bi-hexagon, long,
with rubber insert,
No 4600: size 16 mm - 5/8,"
No 46: size 20.8 mm - 13/16"
1 ratchet No 435
2 extensions
No 427/3 (76 mm),
No 427/10 (240 mm)
1 T-handle No 425
1 universal joint No 428



Code	ΔΔ g
96020134	1988

45/49/20/5 Socket set 3/8"

In sturdy sheet steel case,
25 pieces
Content:
11 sockets with bi-hexagon
No 45: sizes 8; 10; 11; 12; 13; 14;
15; 16; 17; 18; 19 mm
2 sockets with bi-hexagon, long,
with rubber insert
No 4600: size 16 mm - 5/8,"
No 46: size 20.8 mm - 13/16"
7 IN HEX sockets No 49:
sizes 3; 4; 5; 6; 7; 8; 10 mm
1 ratchet No 435
2 extensions
No 427/3 (76 mm),
No 427/10 (240 mm)
1 T-handle No 425
1 universal joint No 428



Code	ΔΔ g
96020123	2959

456/14/5 Socket set 3/8"

In sturdy sheet steel case,
19 pieces
Content:
12 sockets with hexagon
No 456: sizes 8; 9; 10; 11; 12; 13;
14; 15; 16; 17; 18; 19 mm
2 sockets with bi-hexagon, long,
with rubber insert,
No 4600: size 16 mm - 5/8,"
No 46: size 20.8 mm - 13/16"
1 ratchet No 435
2 extensions
No 427/3 (76 mm),
No 427/10 (240 mm)
1 T-handle No 425
1 universal joint No 428



Code	ΔΔ g
96021102	1988

456/49/20/5 Socket set 3/8"

In sturdy sheet steel case,
25 pieces
Content:
11 sockets with hexagon
No 456: sizes 8; 10; 11; 12; 13; 14;
15; 16; 17; 18; 19 mm
2 sockets with bi-hexagon, long,
with rubber insert
No 4600: size 16 mm - 5/8,"
No 46: size 20.8 mm - 13/16"
7 IN HEX sockets No 49:
sizes 3; 4; 5; 6; 7; 8; 10 mm
1 ratchet No 435
2 extensions
No 427/3 (76 mm),
No 427/10 (240 mm)
1 T-handle No 425
1 universal joint No 428



Code	ΔΔ g
96021134	2959

45/49/22/6 Socket set 3/8"

In sturdy sheet steel case,
28 pieces
Content:
15 sockets with bi-hexagon
No 45: sizes 7; 8; 9; 10; 11; 12; 13;
14; 15; 16; 17; 18; 19; 21; 22 mm
7 INHEX sockets No 49:
sizes 3; 4; 5; 6; 7; 8; 10 mm
1 ratchet No 435
3 extensions
No 427/1.5 (38 mm),
No 427/3 (76 mm),
No 427/10 (240 mm)
1 T-handle No 425
1 universal joint No 428



Code	☞☜ g
96020155	2884

89N Socket set 3/8"

In sturdy sheet steel case,
44 pieces
Content:
15 sockets with bi-hexagon
No 45: sizes 7; 8; 9; 10; 11; 12; 13;
14; 15; 16; 17; 18; 19; 21; 22 mm
2 sockets with bi-hexagon, long,
with rubber insert,
No 4600: size 16 mm - 5/8,"
No 46: size 20.8 mm - 13/16"
7 INHEX sockets No 49:
sizes 3; 4; 5; 6; 7; 8; 10 mm
15 combination spanners No 13:
sizes 7; 8; 9; 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 21; 22 mm
1 ratchet No 435
2 extensions
No 427/3 (76 mm),
No 427/10 (240 mm)
1 T-handle No 425
1 universal joint No 428



Code	☞☜ g
96020128	5543

896N Socket set 3/8"

In sturdy sheet steel case,
44 pieces
Content:
15 sockets with hexagon
No 456: sizes 7; 8; 9; 10; 11; 12; 13;
14; 15; 16; 17; 18; 19; 21; 22 mm
2 sockets with bi-hexagon, long,
with rubber insert,
No 4600: size 16 mm - 5/8,"
No 46: size 20.8 mm - 13/16"
7 INHEX sockets No 49:
sizes 3; 4; 5; 6; 7; 8; 10 mm
15 combination spanners No 13:
sizes 7; 8; 9; 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 21; 22 mm
1 ratchet No 435
2 extensions
No 427/3 (76 mm),
No 427/10 (240 mm)
1 T-handle No 425
1 universal joint No 428



Code	☞☜ g
96021128	5543

40/45/37/12 Socket set 1/4"; 3/8"

In sturdy sheet steel case,
49 pieces
Content:
8 sockets with hexagon
No 40: sizes 4; 4.5; 5; 5.5; 6; 7; 8;
9 mm
12 sockets with bi-hexagon No 45:
sizes 10; 11; 12; 13; 14; 15; 16; 17;
18; 19; 21; 22 mm
2 sockets with bi-hexagon, long,
with rubber insert
No 4600: size 16 mm - 5/8,"
No 46: size 20.8 mm - 13/16"
3 bits ⊕ 1221: size 1;
1222: size 2; 1223: size 3
1 bit ⊕ PZ1222: size 2
6 bits ⊖ 1160: 0.5 x 3 mm
1162: 0.6 x 3.5 mm
1164: 0.8 x 4 mm
1166: 1 x 5.5 mm
1166/1: 1.2 x 6.5 mm
1168: 1.6 x 8 mm
5 bits ● 1300: 3 mm;
1301: 4 mm; 1302: 5 mm;
1303: 6 mm; 1304: 8 mm
2 ratchets No 415, No 435
3 extensions
No 427/3 (76 mm),
No 405/6 (150 mm),
No 427/10 (240 mm)
2 universal joints No 407, No 428
1 drive handle No 400
1 T-handle No 425
2 bit-holder No 412, 442
1 adaptor No 431



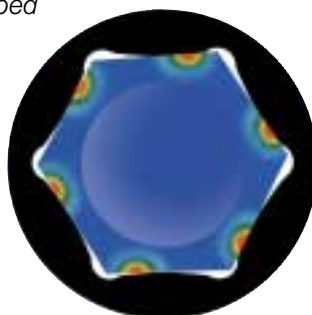
Code	☞☜ g
96010147	3247

3

STAHLWILLE AS-Drive

STAHLWILLE sockets are equipped with the AS Drive profile: this permits high transmission of forces to the lands of nuts and bolts without damaging them. No longer will you have to worry about stripping the corners off nuts and bolts.

*Anti-Slip Drive



45/41/9 Socket set 3/8"

In sturdy sheet steel case,
50 pieces
Content:
11 sockets with bi-hexagon No 45:
sizes 8; 10; 11; 12; 13; 14; 15; 16; 17;
18; 19 mm
9 sockets with bi-hexagon, long,
No 46: sizes 10; 11; 12; 13; 14; 15;
17; 18; 19 mm
2 sockets with bi-hexagon, long,
with rubber insert
No 4600: size 16 mm - 5/8,"
No 46: size 20.8 mm - 13/16"
10 UNIFLEX sockets with
bi-hexagon No 47: sizes 10; 11; 12;
13; 14; 15; 16; 17; 18; 19 mm
5 INHEX sockets No 49:
size 4; 5; 6; 8; 10 mm
4 bits 1231: size 1; 1232: size 2;
1233: size 3; 1234: size 4
1 ratchet No 435
2 extensions
No 427/3 (76 mm),
No 427/10 (240 mm)
1 flexible handle No 424
1 T-handle No 425
1 universal joint No 428
1 flexible extension No 434
1 bit-holder No 443



Code	g
96020108	6521

45TX/49TX/15/5 Socket set TORX® 3/8"

In sturdy sheet steel case,
20 pieces
Content:
7 sockets for external TORX®
screws No 45TX:
sizes E5; E6; E7; E8; E10; E12; E14
8 screwdriver sockets for internal
TORX® screws No 49TX: sizes T9;
T10; T15; T20; T25; T27; T30; T40
1 ratchet No 435
2 extensions
No 427/5 (76 mm),
No 427/10 (240 mm)
1 universal joint No 428
1 T-handle No 425



Code	g
96022703	2005

45TX/20/7 Socket set TORX® 3/8"

In sturdy sheet steel case,
27 pieces
Content:
7 sockets for external TORX®
screws No 45TX:
sizes E5; E6; E7; E8; E10; E12; E14
6 bits 1410: T6; 1411: T7; 1412: T8
1413: T9; 1433: T45; 1434: T50
7 bits 1440: T10; 1441: T15;
1442: T20; 1443: T25;
1444: T27; 1445: T30;
1446: T40
1 ratchet No 435
2 extensions
No 427/3 (76 mm),
No 427/10 (240 mm)
1 universal joint No 428
1 T-handle No 425
2 bit-holders No 442, No 443



Code	g
96022711	1766

89TX Socket set TORX® 1/4; 3/8; 1/2"

In sturdy sheet steel case,
35 pieces
Content:
3 sockets for external TORX®
screws No 40TX: sizes E4; E5; E6
2 screwdriver sockets for internal
TORX® screws No 44KTX:
sizes T8; T9
4 sockets for external TORX®
screws No 45TX:
sizes E7; E8; E10; E12
5 screwdriver sockets for internal
TORX® screws No 49TX:
sizes T10; T15; T20; T25; T27
6 sockets for external TORX®
screws No 50TX: sizes E11; E14;
E16; E18; E20; E24
6 screwdriver sockets for internal
TORX® screws No 54TX:
sizes T30; T40; T45; T50; T55; T60
7 bits 1440: T10; 1441: T15;
1442: T20; 1443: T25; 1444: T27;
1445: T30; 1446: T40
1 bit-holder No 442
1 TORX® controller: sizes E6; E7;
E8; E10; E12; E14; E16; T10; T15;
T20; T25; T27; T30; T40; T45; T47;
T50; T55; T60



Code	g
98810908	2785

45/49/32/5TX Socket set 3/8"

In sturdy sheet steel case, 37 pieces
 Content:
 11 sockets with bi-hexagon
 No 45: sizes 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm
 7 sockets for external TORX® screws No 45TX: sizes E5; E6; E7; E8; E10; E12; E14
 6 INHEX sockets No 49: sizes 4; 5; 6; 7; 8; 10 mm
 8 screwdriver sockets for internal TORX® screws No 49TX: sizes T9; T10; T15; T20; T25; T27; T30; T40
 1 ratchet No 435
 2 extensions
 No 427/3 (76 mm),
 No 427/10 (240 mm)
 1 T-handle No 425
 1 universal joint No 428



	⚙
Code	g
960201 19	3234

40/45/35/10TX Socket set TORX® 1/4; 3/8"

In sturdy sheet steel case, 45 pieces
 Content:
 8 sockets with hexagon
 No 40: sizes 3.5; 4; 4.5; 5; 5.5; 6; 7; 8 mm
 12 sockets with bi-hexagon
 No 45: size 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22 mm
 2 sockets with bi-hexagon, long, with rubber insert
 No 4600: size 16 mm - 5/8";
 No 46: size 20.8 mm - 13/16"
 4 INHEX sockets No 44: sizes 3; 4; 5; 6 mm
 3 screwdriver sockets for internal TORX® screws No 44KTX: sizes T10; T15; T20
 2 INHEX sockets No 49: sizes 8; 10 mm
 4 screwdriver sockets for internal TORX® screws No 49TX: sizes T25; T27; T30; T40
 2 ratchets No 415, No 435
 4 extensions
 No 405/2 (54 mm),
 No 427/3 (76 mm),
 No 405/6 (150 mm),
 No 427/10 (240 mm)
 2 universal joints No 407, No 428
 1 drive handle No 400
 1 adaptor No 431



	⚙
Code	g
960101 48	3840

85TX Socket set TORX® 1/4; 3/8; 1/2"

In sturdy sheet steel case, 57 pieces
 Content:
 4 double ended ring spanners for external TORX screws
 No 21TX: sizes E6 x E8; E10 x E12; E14 x E18; E20 x E24
 5 sockets for external TORX® screws No 40TX: sizes E4; E5; E6; E7; E8
 3 sockets for external TORX® screws No 45TX: sizes E10; E12; E14
 5 sockets for external TORX® screws No 50TX: sizes E11; E16; E18; E20; E24
 5 screwdriver sockets for internal TORX® screws No 54TX: sizes T40; T45; T50; T55; T60
 4 bits 1410: T6; 1411: T7; 1412: T8; 1413: T9;
 7 bits 1440: T10; 1441: T15; 1442: T20; 1443: T25; 1444: T27; 1445: T30; 1446: T40
 1 bit 1427: T25 (65 mm)
 10 TORX® DRALL screwdrivers
 No 4750: sizes T6; T7; T8; T9; T10; T15; T20; T25; T27; T30
 11 angled screwdrivers for internal TORX® screws No 10766: sizes T6; T7; T8; T9; T10; T15; T20; T25; T27; T30; T40
 1 ratchet No 415SGB
 1 bit-holder No 442



	⚙
Code	g
988104 02	4610

45a/8/4 Socket set 3/8"

In sturdy sheet steel case, 12 pieces
 Content:
 8 sockets with bi-hexagon No 45a: sizes 1/4; 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 3/4"
 1 ratchet No 435
 2 extensions
 No 427/3 (76 mm),
 No 427/10 (240 mm)
 1 universal joint No 428



	⚙
Code	g
960241 05	1500

45a/13/5 Socket set 3/8"

In sturdy sheet steel case,
18 pieces
Content:
11 sockets with bi-hexagon No 45a:
sizes 1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16;
5/8; 11/16; 3/4; 13/16"
2 sockets with bi-hexagon, long,
with rubber insert
No 4600: size 16 mm - 5/8",
No 46: size 20.8 mm - 13/16"
1 ratchet No 435
2 extensions
No 427/3 (76 mm),
No 427/10 (240 mm)
1 T-handle No 425
1 universal joint No 428



Code	ΔΔ g
96024104	1951

45a/19/9 Socket set 3/8"

In sturdy sheet steel case,
28 pieces
Content:
12 sockets with bi-hexagon No 45a:
sizes 1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16;
5/8; 11/16; 3/4; 13/16; 7/8"
7 UNIFLEX sockets with bi-hexagon
No 47a:
sizes 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4"
1 ratchet No 435SG-QR
3 extensions
No 427/3 (76 mm),
No 427/6 (160 mm),
No 427/10 (240 mm)
1 universal joint No 428
1 locking adaptor No 433/1
2 bit-holders No 442, No 443
1 speeder brace No 453



Code	ΔΔ g
96024107	3906

45ma/28/5 Socket set 3/8"

In sturdy sheet steel case,
33 pieces
Content:
28 sockets with bi-hexagon
No 45: sizes 7; 8; 9; 10; 11; 12; 13;
14; 15; 16; 17; 18; 19; 20; 21; 22 mm
No 45a: sizes 1/4; 5/16; 11/32; 3/8; 7/16;
1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8"
1 ratchet No 435
2 extensions
No 427/3 (76 mm),
No 427/10 (240 mm)
1 T-handle No 425
1 universal joint No 428



Code	ΔΔ g
96020122	2920

45a/33/13 Socket set 3/8"

In sturdy sheet steel case,
46 pieces
Content:
10 sockets with bi-hexagon No 45a:
sizes 1/4; 5/16; 11/32; 3/8; 7/16; 1/2;
9/16; 5/8; 11/16; 3/4"
2 sockets with bi-hexagon, long,
with rubber insert
No 4600: size 16 mm - 5/8",
No 46: size 20.8 mm - 13/16"
7 sockets with bi-hexagon, long,
No 46a: sizes 3/8; 7/16; 1/2; 9/16; 11/16;
3/4; 7/8"
7 UNIFLEX sockets with bi-hexagon
No 47a: sizes 3/8; 7/16; 1/2; 9/16; 5/8;
11/16; 3/4"
3 INHEX sockets No 49a:
sizes 1/8; 5/32; 3/16"
4 bits ⊕ 1231: size 1; 1232: size 2;
1233: size 3; 1234: size 4
2 ratchets No 415, No 435
1 ratchet adaptor No 445
3 extensions
No 427/3 (76 mm),
No 427/6 (160 mm),
No 427/10 (240 mm)
1 flexible extension
No 434 (194 mm)
1 adaptor No 409
1 speeder brace No 421
1 flexible handle No 424
1 T-handle No 425
1 universal joint No 428
1 bit-holder No 443



Code	ΔΔ g
96024113	6540

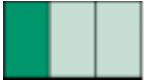
45a/12/9 Socket set 3/8"

In sturdy sheet steel case,
21 pieces
Content:
12 sockets with bi-hexagon No 45a:
sizes 1/4; 5/16; 11/32; 3/8; 7/16;
1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8"
1 ratchet No 435SG-QR
3 extensions
No 427/3 (76 mm),
No 427/6 (160 mm),
No 427/10 (240 mm)
1 universal joint No 428
1 locking adaptor No 433/1
2 bit-holders No 442, No 443
1 speeder brace No 453



Code	ΔΔ g
96024106	3511

ES 456/16/6



175 x 350 x 40 mm, 22 pieces

Code	g
968381 11	1440

	No 456	3/8" O sizes 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
	No 425	3/8" ■ 165 mm
	No 427/3	3/8" ■ O 76 mm
	No 427/6	3/8" ■ O 160 mm
	No 427/10	3/8" ■ O 240 mm
	No 428	3/8" ■ O 46 mm
	No 435	3/8" ■

83 81 20 32	Empty tray	103
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TCS 456/16/4



175 x 350 x 40 mm, 20 pieces

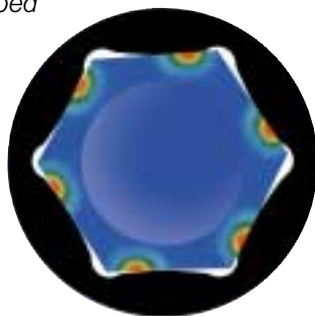
Code	g
968301 61	1123

	No 456	3/8" O sizes 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
	No 427/5	3/8" ■ O 125 mm
	No 427/10	3/8" ■ O 240 mm
	No 428	3/8" ■ O 46 mm
	No 435	3/8" ■

STAHLWILLE AS-Drive

STAHLWILLE sockets are equipped with the AS Drive profile: this permits high transmission of forces to the lands of nuts and bolts without damaging them. No longer will you have to worry about stripping the corners off nuts and bolts.

*Anti-Slip Drive

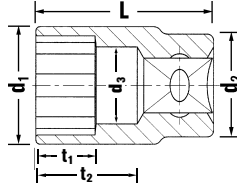


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Socket



metric sizes: DIN 3124/ISO 2725-1, E DIN EN 3709, ASME B 1075 M, American sizes: ASME B 1071, Fed. Spec. GGG-W-641, SAE AS 954-E (test loads), HPQ high performance steel, chrome plated.



Code	O mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
03010008	8	13	22	7	38	9	22	56	10
03010009	9	13.7	22	8	38	9	22	57	10
03010010	10	14.5	22	9	38	9	22	57	10
03010011	11	15.8	22	10	38	9.5	22	52	10
03010012	12	17	22	11	38	13	22	58	10
03010013	13	18.3	22	12	38	13	22	60	10
03010014	14	19.9	22.7	13	38	13	20.5	60	10
03010015	15	21.2	22.7	14	38	13.5	20.2	62	10
03010016	16	22.4	23.7	15	38	13.5	19.6	63	10
03010017	17	24	23.7	15.2	38	15	19.6	66	10
03010018	18	24.7	23.7	17	38	15.5	19.1	71	10
03010019	19	26.2	25	18	38	16	21.7	78	10
03010020	20	27.2	25	19	42	17	25.5	89	10
03010021	21	28.7	26	20	42	18	25.2	104	10
03010022	22	29.7	26	21	42	18	24.9	113	10
03010023	23	30.7	26	20	42	18	25.4	114	5
03010024	24	32	26	21	42	18.5	24.9	117	5
03010025	25	33.2	25	22	42	18.5	24.6	119	5
03010026	26	34.4	25	23	42	18.5	24.3	122	5
03010027	27	36.2	26	24	45	19.5	27	150	5
03010028	28	37.4	27	25	45	19.5	26.7	158	5
03010029	29*	38.7	28	26	45	19.5	26.4	170	5
03010030	30	39.7	28	27	45	20.5	26.1	171	5
03010031	31	42.2	28	28	47	22	27.9	215	5
03010032	32	42.2	28	29	47	22	27.6	189	5
03010033	33*	43.8	28	30	47	22	27.3	214	5
03010034	34	45	28	31	47	22	27	209	5

* to be discontinued

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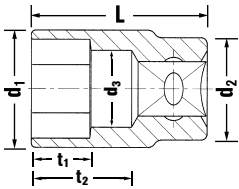
Socket

Code	O mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
03410024	3/8	14.3	22	8.3	38	9	22	57	10
03410028	7/16	16.3	22	9.9	38	9	22	59	10
03410032	1/2	18.3	22	11.5	38	13	22	59	10
03410034	9/16	20.3	22.7	13.1	38	13	20.2	62	10
03410035	19/32	21.3	22.7	13.5	38	13.5	20.1	61	10
03410036	5/8	22.4	23.7	15	38	13.5	19.6	62	10
03410038	11/16	24.2	23.7	16.5	38	15.5	19.2	68	10
03410040	3/4	26.2	25	18	38	16	21.7	78	10
03410041	25/32	27	25	18.6	41	16	24.6	90	5
03410042	13/16	28.2	25	19.4	41	16.5	24.3	95	5
03410044	7/8	29.7	26	21	42	18	24.9	111	5
03410046	15/16	32	26	22.6	42	18.5	24.4	121	5
03410048	1	33.7	27	24.2	42	18.5	24	135	5
03410050	1 1/16	36.2	26	25.8	45	19.5	26.5	155	5
03410052	1 1/8	38.1	28	27.4	45	20	26	167	5
03410054	1 3/16	39	28	28	45	20.5	25.9	178	5
03410056	1 1/4	40	28	30.5	45	21	25.1	196	5
03410058	1 5/16	41.8	28	32.1	47	22	26.7	210	5
03410060	1 3/8	46	28	33.7	50	23	29.2	232	5
03410062	1 7/16	49.4	31	34	54	26	33.1	320	5
03410064	1 1/2	51	31	35	54	26	32.8	330	5

52 Sockets



DIN 3124/ISO 2725-1, ASME B 107.5M, E DIN EN 3709 (test loads), HPQ high performance steel, chrome plated.



Code	Ø	d ₁	d ₂	d ₃	L	t ₁	t ₂	g	
	mm	mm	mm	mm	mm	mm	mm		
03030008	8	13	22	7	38	9	22	56	10
03030009	9	13.7	22	8	38	9	22	56	10
03030010	10	14.5	22	9	38	9	22	60	10
03030011	11	15.8	22	10	38	9.5	22	58	10
03030012	12	17	22	11	38	13	22	52	10
03030013	13	18.3	22	12	38	13	22	51	10
03030014	14	19.9	22.7	13	38	13	20.5	59	10
03030015	15	21.2	22.7	14	38	13.5	20.2	63	10
03030016	16	22.4	23.7	15	38	13.5	19.6	65	10
03030017	17	24	23.7	15.2	38	15	19.6	62	10
03030018	18	24.7	23.7	17	38	15.5	19.1	73	10
03030019	19	26.2	25	18	38	16	21.7	79	10
03030020	20	27.2	25	19	42	17	25.5	95	10
03030021	21	28.7	26	20	42	18	25.2	110	10
03030022	22	29.7	26	21	42	18	24.9	115	10
03030023	23	30.7	26	20	42	18	25.4	119	5
03030024	24	32	26	21	42	18.5	24.9	125	5
03030025	25	33.2	26	22	42	18.5	24.6	128	5
03030026	26	34.4	25	23	42	18.5	24.3	132	5
03030027	27	36.2	26	24	45	19.5	27	161	5
03030028	28	37.4	27	25	45	19.5	26.7	166	5
03030029	29*	38.7	28	26	45	19.5	26.4	182	5
03030030	30	39.7	28	27	45	20.5	26.1	186	5
03030032	32	42.2	28	29	47	22	27.6	200	5
03030034	34	45	28	31	47	22	27	235	5

* to be discontinued

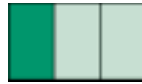
STAHLWILLE's HPQ inserts

STAHLWILLE HPQ* sockets are manufactured from selected tough steel alloys. The result: they are extremely durable. HPQ sockets are free of cadmium and are therefore suitable for use on titanium alloy parts and titanium fasteners as used e.g. in the aerospace industry, where safety is a crucial factor.

*High Performance Quality



ES 52/17



175 x 350 x 47 mm, 17 pieces

Code	g
96838112	1760

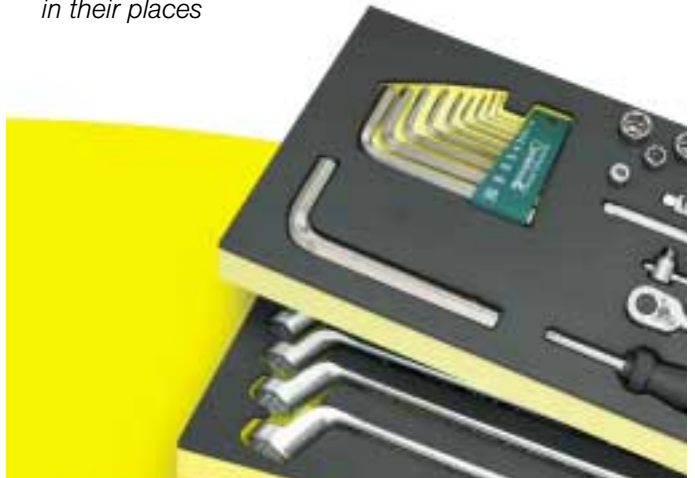
No 52 1/2" Ø sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm

83 81 20 30 Empty tray 107



Tool Control System The safety inlay system

- Designed to fit our Tool Trolleys and Tool Boxes
- With yellow signal cut-outs to show whether all tools are in their places



TCS 52/17



175 x 350 x 40 mm, 17 pieces

Code	g
96838177	1605

No 52 1/2" Ø sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm

TCS 50/51/52/32



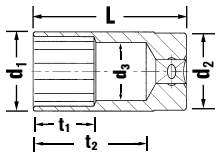
175 x 350 x 50 mm, 32 pieces

Code		g
96838191		2950
No 50	1/2" O sizes 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 30 mm	
No 52	1/2" O sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm	
No 51	1/2" O sizes 22; 27 mm	

51 Sockets



extra deep, metric sizes: DIN 3124/ISO 2725-1, E DIN EN 3710, E DIN EN 3709, ASME B 107.5M, American sizes: ASME B 107.1, Fed. Spec. GGG-W-641, SAE AS 954-E, HPQ high performance steel, chrome plated.



Code	O mm/"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
03020010	10	14.5	22	9	83	19	67	???	10
03020013	13	18.3	22	12	83	35	67	122	10
03020014	14	19.9	22.7	13	83	35	65.2	129	10
03020015	15	21.2	22.7	14	83	35	64.9	132	10
03020016	16	22.4	23.7	15	83	35	64.6	145	10
03020216	16-5/8 ¹⁾	22.4	23.7	15.4	83	19	64.5	137	10
03020017	17	24	23.7	16	83	35	64.3	132	10
03020018	18	24.7	23.7	17	83	35	64.1	170	10
03020019	19	26.2	25	18	83	35	66.7	186	10
03020208	20.8-13/16 ¹⁾	27.7	26	20	83	22	66.2	194	10
03250208	M20.8-13/16 ²⁾ *	27.7	26	17.5	83	9	66.9	230	10
03020021	21	28.7	26.5	20	83	35	66.2	231	10
03020022	22	29.7	27.5	21	83	35	65.5	200	10
03020024	24	32	30	21	83	35	66.1	280	5
03020026	26*	34.4	32.5	23	83	35	65.3	334	5
03020027	27 ³⁾	36.2	34	27	83	20	60	294	5
03020028	28*	37.4	35	25	83	35	64.7	375	5
03020030	30 ³⁾	39.7	37.5	30.2	83	35	65	381	5
03020032	32	42.4	40	29	83	35	63.9	461	5

¹⁾ with rubber insert for spark plugs
²⁾ with magnet for spark plugs
³⁾ for diesel injector (VW/Audi, DaimlerChrysler, Opel, Ford, Peugeot, Volvo, Toyota, Mazda, Nissan, Mitsubishi, Daihatsu)
 * to be discontinued

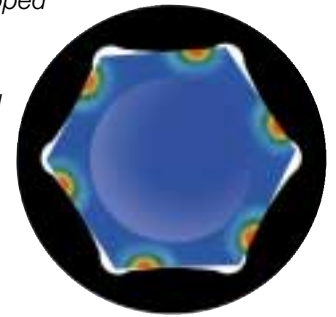
51a Sockets

Code	O "	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
03420024	3/8	14.3	22	8.3	83	19	67	93	5
03420028	7/16	16.3	22	9.9	83	19	67	102	5
03420032	1/2	18.3	22	11.5	83	35	67	122	5
03420034	9/16	20.3	22.7	13.1	83	35	65.2	131	5
03420036	5/8	22.4	23.7	15	83	35	64.6	145	5
03420038	11/16	24.2	23.7	16.5	83	35	64.2	158	5
03420040	3/4	26.2	25	18	83	35	66.7	188	5
03420042	13/16	27.7	26	19.5	83	35	66.3	170	5
03420044	7/8	29.7	27.5	21	83	35	65.9	246	5
03420046	15/16	32	30	22.6	83	35	65.7	281	5
03420048	1	33.7	32	24.2	83	35	65	312	5
03420050	1 1/16	36.2	34	25.8	83	35	64.5	359	5
03420052	1 1/8	38.1	36	27.4	83	35	64	391	5
03420054	1 3/16	39	37	28	83	35	63.9	377	5
03420056	1 1/4	40	38	30.5	83	35	63.1	433	5
03420058	1 5/16	41.8	40	32.1	83	35	62.7	479	5
03420060	1 3/8	46	44	33.7	83	35	62.2	506	5
03420062	1 7/16	49.4	47	34	83	35	62.1	635	5
03420064	1 1/2	51	49	35	83	35	61.8	675	5

STAHLWILLE AS-Drive

STAHLWILLE sockets are equipped with the AS Drive profile: this permits high transmission of forces to the lands of nuts and bolts without damaging them. No longer will you have to worry about stripping the corners off nuts and bolts.

*Anti-Slip Drive



STAHLWILLE's HPQ inserts

STAHLWILLE HPQ* sockets are manufactured from selected tough steel alloys. The result: they are extremely durable. HPQ sockets are free of cadmium and are therefore suitable for use on titanium alloy parts and titanium fasteners as used e.g. in the aerospace industry, where safety is a crucial factor.

*High Performance Quality



51/8 Set: Sockets



long.
Content:
13; 17; 19; 22; 24; 27; 30; 32 mm



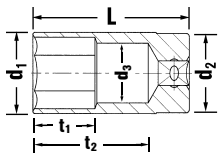
Code	g	g	g
96030202	2860	1	

in robust sheet steel box

51S Sockets



extra deep, DIN 3124/ISO 2725-1, E DIN EN 3710,
E DIN EN 3709 (test loads),
HPQ high performance steel, chrome plated.



Code	mm/"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	g
03240017	17	24	23.7	16	83	35	64.3	157	10
03240019	19	26.2	25	18	83	35	66.7	190	10
03240208	20.8- ¹⁹ / ₁₆ ¹⁾	27.7	26	20	83	22	66.2	196	10
03240022	22	29.7	27.5	21	83	35	65.9	246	10

¹⁾ with rubber insert for spark plugs and for tightening and untightening wheel nuts on Japanese cars

ES 51S/4



175 x 175 x 30 mm, 4 pieces

Code	g
96838160	860

No 51S

1/2" \varnothing sizes 17; 19; 20.8 mm-¹⁹/₁₆";
22 mm

83812080	Empty tray	55
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5100 Rubber insert

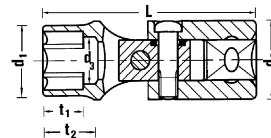
for size 20.8 mm (No 46, 466; 51; 51S; 1040; 4328).

Code	g	g
09010001	5	5

53 UNIFLEX sockets



Chrome Alloy Steel, chrome plated.

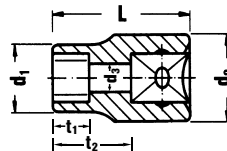


Code	mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	g
03040010	10	14.7	25	9	70	12	20	136	1
03040011	11	15.9	25	10	70	12	20	136	1
03040013	13	18.4	25	12	70	12	20	140	1
03040016	16	22.4	25	15	69	13	17	141	1
03040017	17	23.5	25	16	70	13	18	141	1
03040018	18	25	25	17	70	12	18	145	1
03040019	19	26.3	25	18	70	12	17.5	148	1

50TX Sockets



for external TORX® screws,
HPQ high performance steel, chrome plated.



Code	size	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	g	
03270010	E10	9.4	13	22	5.6	38	9.5	22	53	10
03270011	E11 ¹⁾	10.1	14	22	6	38	14	22	50	10
03270012	E12	11.1	14.9	22	7.2	38	9.5	22	55	10
03270014	E14	12.9	16.7	22	8	38	11	22	56	10
03270016	E16	14.7	19	22	9.3	38	12.5	22	60	10
03270018	E18	16.6	21	26.5	10.4	38	13.5	22	92	10
03270020	E20	18.4	23.5	26.5	12	38	15	22	98	10
03270024	E24	22.1	27.8	26	14.1	41.2	17.5	23.6	120	10

¹⁾ for use on mounting screw of vibration damper on Ford gearbox MT 75




50TX/7  **Set: Sockets**



for external TORX® screws.
Content:
E10; E12; E14; E16; E18; E20; E24



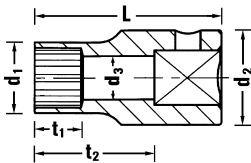
Code	Δ g	
96032703	623	1


in carton packing

50aPSP  **Sockets spline-drive**



MS-33787, MIL-W-8982,
HPQ high performance steel, gun finish.

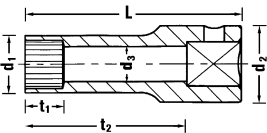



Code	Spline size	Δ	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
03012028	14	7/16	18	23.7	10.4	38	11	22	65	5

50aPLSP  **Sockets spline-drive**



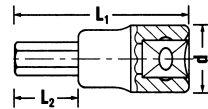
extra deep, bolt clearance,
MS-33787, MIL-W-8982,
HPQ high performance steel, gun finish.




Code	Spline size	Δ	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
03013028	14	7/16	18	23.7	10.4	50	11	34	83	5


54  **INHEX sockets**

for hexagon socket head screws, DIN 7422,
Chrome Alloy Steel, chrome plated.



Code	Δ mm	L ₁ mm	L ₂ mm	d mm	Δ g	
03050004	4	60	22	22.7	68	5
03050005	5	60	22	22.7	68	5
03050006	6	60	22	22.7	71	5
03050007	7	60	22	22.7	75	5
03050008	8	60	22	22.7	79	5
03050010	10	60	22	22.7	97	5
03050012	12	60	20	23.7	122	5
03050014	14	60	20	23.7	135	5
03050017	17	60	20	27.5	186	5
03050019	19	60	20	31	242	5

54a  **INHEX sockets**

Code	Δ "	L ₁ mm	L ₂ mm	d mm	Δ g	
03450014	7/32	60	22	22.7	70	5
03450016	1/4	60	22	22.7	75	5
03450020	5/16	60	22	22.7	81	5
03450024	3/8	60	22	22.7	97	5
03450028	7/16	60	22	22.7	103	5
03450032	1/2	60	20	23.7	125	5
03450034	9/16	60	20	23.7	137	5
03450036	5/8	60	20	27.5	169	5
03450040	3/4	60	20	31	244	2

54/10 **INHEX socket set No 54**

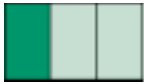
sizes 4; 5; 6; 7; 8; 10; 12; 14; 17; 19 mm



Code	Δ g
96030508	1655

in sturdy sheet steel case

ES 54/54KK

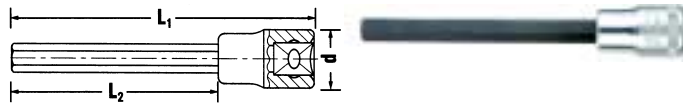


175 x 350 x 38 mm, 14 pieces

Code		Δ	Δ
		g	g
968381 14		1630	
No 54	1/2" \circ sizes 4; 5; 6; 7; 8; 10; 12; 14; 17; 19 mm		
No 54KK	1/2" \circ sizes 5; 6; 8; 10 mm		
83 81 20 46	Empty tray	108	

INHEX sockets

for hexagon socket head screws,
extra long, DIN 7422,
Chrome Alloy Steel, chrome plated.

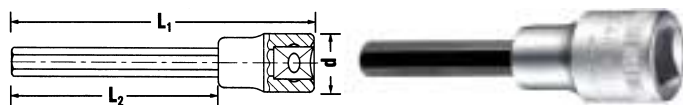


Code	No	\circ	L ₁	L ₂	d	Δ	Δ	
		mm	mm	mm	mm	g	g	
03 15 12 05	2054/5	5	120	82	22.7	78	5	
03 15 12 06	2054/6	6	120	82	22.7	84	5	
03 15 12 07	2054/7	7	120	82	22.7	96	5	
03 15 12 08	1054/8K	8	120	82	22.7	104	5	
03 15 14 10	1054/10	10	140	102	22.7	150	5	
03 15 14 12	1054/12¹⁾	12	140	100	23.7	197	5	
03 15 14 14	2054/14	14	140	100	23.7	231	5	

¹⁾ For fitting radiators

INHEX sockets

for hexagon socket head screws,
special lengths, DIN 7422,
Chrome Alloy Steel, chrome plated.



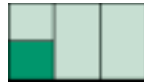
Code	No	\circ	L ₁	L ₂	d	Δ	Δ	
		mm	mm	mm	mm	g	g	
03 15 18 05	1054/5	5	180	20	22	118	5	
03 15 07 06	1054/6	6	70	32	22.7	72	5	
03 15 10 06	3054/6²⁾	6	100	62	22.7	80	5	
03 15 22 06	1054/6L	6	220	182	22.7	108	5	
03 15 10 07	1054/7	7	100	62	22.7	87	5	
03 15 08 08	3054/8	8	80	42	22.7	88	5	
03 17 13 08	3054/8G¹⁾	8	105	67	22.7	100	5	
03 15 13 08	3054/8L*	8	130	92	22.7	109	5	
03 15 14 08	1054/8	8	140	102	22.7	114	5	
03 15 07 13	1054/13	13	70	25	24	130	5	

¹⁾ cranked version

²⁾ for intake manifolds on 5-cylinder diesel engines on VW/Audi and T4 vans

* to be discontinued

ES 1054/2054



175 x 175 x 30 mm, 6 pieces

Code		Δ	Δ
		g	g
968381 64		900	
No 1054	1/2" \circ sizes 8; 10; 12 mm		
No 2054	1/2" \circ sizes 5; 6; 14 mm		
83 81 20 81	Empty tray	55	

541C INHEX sockets

for hexagon socket head screws with guide pin, Chrome Alloy Steel,
chrome plated.



Code	\circ	L ₁	L ₂	d	Δ	Δ
	mm	mm	mm	mm	g	
03 07 00 05	5	60	22	22.7	70	5
03 07 00 06	6	60	22	22.7	71	5
03 07 00 08	8	60	22	22.7	70	5
03 07 00 10	10	60	22	22.7	95	5
03 07 00 12	12	60	20	23.7	120	5
03 07 00 14	14	60	20	23.7	131	5

54KK INHEX sockets

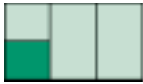
with ball point hexagon,
for hexagon socket head screws,
swivel angle up to 25° each side,
Chrome Alloy Steel, chrome plated.



Code	\circ	L ₁	L ₂	d	Δ	Δ
	mm	mm	mm	mm	g	
03 28 00 05	5	100	62	22.7	75	5
03 28 00 06	6	100	62	22.7	80	5
03 28 00 07	7¹⁾	100	62	22.7	84	5
03 28 00 08	8	100	62	22.7	95	5
03 28 00 10	10	100	62	22.7	120	5

¹⁾ Application: BMW brakes

ES 54KK/5



175 x 175 x 30 mm, 5 pieces

Code	⚖️ g
96838165	505

No 54KK 1/2" \varnothing sizes 5; 6; 7; 8; 10 mm

83 81 20 51	Empty tray	55
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1054KK INHEX sockets

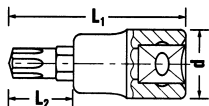
with ball point hexagon,
for hexagon socket head screws,
swivel angle up to 25° each side,
special lengths,
Chrome Alloy Steel, chrome plated.



Code	mm	L ₁ mm	L ₂ mm	d mm	⚖️ g	
03310005	5	238	200	22.7	145	5
03310008	8	238	200	22.7	154	5

54CV Screwdriver sockets

for spline socket head screws
(Ribe CV), Chrome Alloy Steel, chrome plated.



Code	size	L ₁ mm	L ₂ mm	d mm	⚖️ g	
03090005	M5	60	22	22.7	69	5
03090006	M6	60	22	22.7	71	5
03090007	M7	60	22	22.7	78	5
03090008	M8	60	22	22.7	78	5
03090009	M9	60	22	22.7	92	5
03090010	M10	60	22	22.7	95	5
03090012	M12	60	20	23.7	119	5
03090013	M13	60	20	23.7	123	5
03090014	M14	60	20	23.7	126	5
03090016	M16	63	23	27.5	163	5

Application: sizes M7; M9; M13 for brakes and cylinder head screws on Fiats,
size M12 for cylinder head screws on Fiat 2.0 I engines

54CV/9 Set: Screwdriver sockets

for spline socket head screws (Ribe CV).

9 pieces

Content:

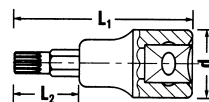
M5; M6; M7; M8; M9; M10; M12; M13; M14



Code	⚖️ g	
96030901	1420	1

54X Screwdriver sockets

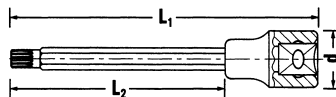
for trisquare socket head screws (XZN®), DIN 2324,
Chrome Alloy Steel, chrome plated.



Code	size	L ₁ mm	L ₂ mm	d mm	⚖️ g	
03060005	M5	60	22	22.7	67	5
03060006	M6	60	22	22.7	74	5
03060008	M8	60	22	22.7	79	5
03060010	M10	60	22	22.7	94	5
03060012	M12	60	20	23.7	120	5
03060014	M14	60	20	23.7	128	5
03060016	M16	60	20	27.5	174	5

3054X Screwdriver sockets

for trisquare socket head screws (XZN®), DIN 2324,
extra long,
Chrome Alloy Steel, chrome plated.



Code	size	L ₁ mm	L ₂ mm	d mm	⚖️ g	
03261408	M8	140	102	22.7	109	5
03261410	M10	140	102	22.7	142	5
03261412	M12	140	102	22.7	160	5
03261414	M14	140	100	23.7	225	1

Application: sizes M10 and M12 for cylinder head screws on VW/Audi,
Opel, DaimlerChrysler,
size M14 for cylinder head screws on VM diesel engines, Chrysler

Screwdriver sockets

for trisquare socket head screws (XZN[®]), special lengths, DIN 2324, Chrome Alloy Steel, chrome plated.

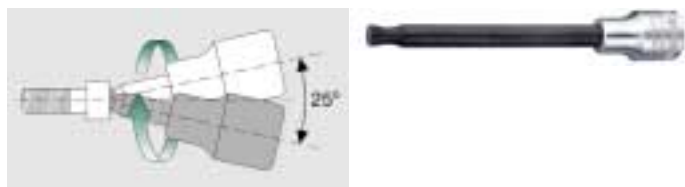


Code	No	size	L ₁ mm	L ₂ mm	d mm	Δ _Δ g	
03 16 08 08	1054x	M8	80	42	22.7	86	5
03 16 12 08	2054x	M8	120	82	22.7	104	5
03 16 11 10	2054x	M10	110	72	22.7	130	5
03 16 11 12	2054x	M12	110	70	23.7	168	5

Application: No 1054x, size M8, for jointed shafts on VW/Audi

1054KKX Screwdriver sockets

for trisquare socket head screws (XZN[®]), with ball point, swivel angle up to 12.5° each side, extra long, Chrome Alloy Steel, chrome plated, registered design.



Code	size	L ₁ mm	L ₂ mm	d mm	Δ _Δ g	
03 36 14 08	M8	140	102	22.7	90	1
03 36 14 10	M10	140	102	22.7	130	1
03 36 14 12	M12	140	102	22.7	160	1

54TX Screwdriver sockets

for inside TORX[®] screws, Chrome Alloy Steel, chrome plated.



Code	size	mm	L ₁ mm	L ₂ mm	d mm	Δ _Δ g	
03 10 00 20	T20	3.8	55	17	22.7	71	5
03 10 00 25	T25	4.4	55	17	22.7	71	5
03 10 00 27	T27	5	55	17	22.7	72	5
03 10 00 30	T30	5.5	55	17	22.7	72	5
03 10 00 40	T40	6.6	55	17	22.7	72	5
03 10 00 45	T45	7.8	55	17	22.7	74	5
03 10 00 50	T50	8.8	55	17	22.7	86	5
03 10 00 55	T55	11.2	58	18	23.7	112	5
03 10 00 60	T60	13.2	58	18	23.7	113	5
03 10 00 70	T70	15.5	60	20	25.7	155	1

Application: size T55 for the cylinder head screws on the Opel Omega V6

54TX/9 Set: Screwdriver sockets

for inside TORX[®] screws, 9 pieces, Content: sizes T20; T25; T27; T30; T40; T45; T50; T55; T60



Code	Δ _Δ g	
96 03 10 04	820	1

packed in carton

54TX/10 Socket set TORX[®]

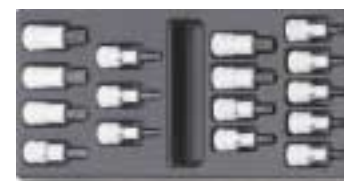
for inside TORX[®] screws, 10 pieces, Content: sizes T20; T25; T27; T30; T40 (2x); T45; T50; T55; T60



Code	Δ _Δ g
96 03 10 05	1300

in sturdy sheet steel case

ES 54X/54TX



175 x 350 x 38 mm, 16 pieces

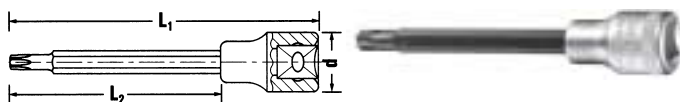
Code	Δ _Δ g
96 83 81 15	1600

	No 54X	1/2" sizes M5; M6; M8; M10; M12; M14; M16
	No 54TX	1/2" sizes T20; T25; T27; T30; T40; T45; T50; T55; T60

83 81 20 45	Empty tray	111
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🔩 Screwdriver sockets

for inside TORX® screws,
extra long,
Chrome Alloy Steel, chrome plated.

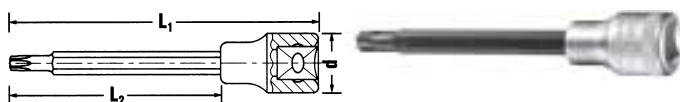


Code	No	size	mm	L ₁ mm	L ₂ mm	d mm	Δ⊗ g	📦
03 13 12 30	1054TX	T30	5.5	120	82	22.7	99	5
03 13 14 40	2054TX	T40	6.6	140	102	22.7	110	5
03 13 14 45	2054TX	T45	7.8	140	102	22.7	111	5
03 13 14 50	1054TX	T50	8.8	140	102	22.7	143	5
03 13 14 55	1054TX	T55	11.2	140	102	22.7	159	5
03 13 14 60	1054TX	T60	13.2	140	100	23.7	221	5

Application: size T45 for the intake rail of the Ford Scorpio with a 2.4; 2.8; 2.9 l injection engine and for the VW Passat from April 1989 with a 1.6; 1.8; 2.0 l engine and gearbox type 02A, size T55 for the cylinder head screws on various Ford models, e.g. Mondeo 16V

1054TX 🔩 Screwdriver sockets

for inside TORX® screws,
extra long,
Chrome Alloy Steel, chrome plated.



Code	size	mm	L ₁ mm	L ₂ mm	d mm	Δ⊗ g	📦
03 13 12 40	T40	6.6	120	82	22.7	100	5
03 13 12 45	T45	7.8	120	82	22.7	100	5
03 13 10 70	T70 ¹⁾	15.5	107	67	23.7	201	5

¹⁾ for cylinder head screws type Ford 1.8 l diesel (Turbo) Fiesta, Escort, Sierra, P100 from 8/92

ES 1054/2054TX/6



175 x 175 x 30 mm, 6 pieces

Code	Δ⊗ g
9683 81 63	950

🔩 No 1054TX 1/2" ♂ sizes T30; T50; T55; T60
No 2054TX 1/2" ♂ sizes T40; T45

83 81 20 81 Empty tray 55

1054TX/4Pc 🔩 Set: Screwdriver sockets

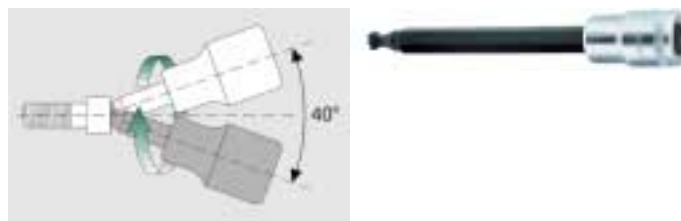
for inside TORX® screws,
in plastic wallet, 4 pieces,
Content:
T40; T45; T50; T55



Code	Δ⊗ g	📦
9603 13 01	527	1

1054KKTX 🔩 Screwdriver sockets

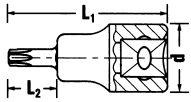
for inside TORX® screws,
with ball point, swivel angle up to 20°
each side, extra long,
Chrome Alloy Steel, chrome plated.



Code	size	mm	L ₁ mm	L ₂ mm	d mm	Δ⊗ g	📦
03 20 00 30	T30	5.5	120	82	22.7	99	5
03 20 00 40	T40	6.6	140	102	22.7	105	5
03 20 00 45	T45	7.8	140	102	22.7	105	5
03 20 00 50	T50	8.8	140	102	22.7	143	5

54TXB Set: Screwdriver sockets

for inside TORX® screws,
tamper proof, with hollow point,
Chrome Alloy Steel, chrome plated
(TORX® TAMPER RESISTANT).



Code	size	mm	L ₁ mm	L ₂ mm	d mm	ΔΔ g	
03 11 00 20	T20	3.8	55	17	22.7	70	5
03 11 00 25	T25	4.4	55	17	22.7	70	5
03 11 00 27	T27	5	55	17	22.7	71	5
03 11 00 30	T30	5.5	55	17	22.7	71	5
03 11 00 40	T40	6.6	55	17	22.7	71	5
03 11 00 45	T45	7.8	55	17	22.7	73	5
03 11 00 50	T50	8.8	55	17	22.7	86	5
03 11 00 55	T55	11.2	58	18	23.7	111	5
03 11 00 60	T60	13.2	58	18	23.7	113	5

Application: size T50 for the spare wheel retaining plate on the bumper of the OPEL Frontera Sport

54TXB/9 Set: Screwdriver sockets

for inside TORX® screws,
tamper proof, with hollow point
(TORX® TAMPER RESISTANT).

9 pieces

Content:

T20; T25; T27; T30; T40; T45; T50; T55; T60



Code	ΔΔ g	
96 03 10 07	811	1

in carton packing with transparent cover



54TXB/10 Set: Screwdriver sockets

for inside TORX® screws,
tamper proof, with hollow point
(TORX® TAMPER RESISTANT).

10 pieces

Content:

T20; T25; T27; T30; 2 x T40; T45; T50; T55; T60



Code	ΔΔ g	
96 03 10 08	1288	1

in robust sheet steel box

502 1/2 Square drive

for No 720/20; 734/20.



Code	L mm	ΔΔ g	
59 01 00 11	33.5	39	5

50CL Clip strips

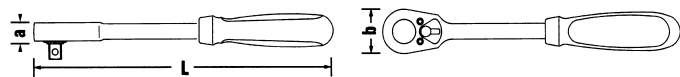
for socket retention,
with 9 or 11 retaining clips.
Supplied without sockets.



Code	size	L mm	ΔΔ g	
80 50 00 01	1	200	54	5
80 50 00 02	2	300	73	5

Drive tools and accessories

1/2" □, finish: Chrome Alloy Steel, chrome plated.



512 Ratchet

reversible (36 teeth),
DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	△ g	☐
13110010	265.5	41	21	580	1

512QR QuickRelease ratchet



reversible (36 teeth),
with QuickRelease safety
locks and 2-component
handles, DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	△ g	☐
13110020	265.5	41	21	599	1

QR The QuickRelease system

Ratchets, handles, extensions,
universal joints with
safety locks.

- Secure, rapid connection between the individual components to form a single combined unit.
- Can only be separated by releasing the locking mechanism.
- Variable combinations of components possible.



512QR/3 QuickRelease set



Content:
Ratchet 512QR
Extension 509/2QR, 52 mm
Extension 509/5QR, 130 mm
Extension 509/10QR, 255 mm



Code	△ g	☐
96131103	1317	1

512SG-QR QuickRelease ratchet



reversible (36 teeth), with
QuickRelease safety
locks and steel handle,
DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	△ g	☐
13110030	265.5	41	21	680	1

515 Ratchet, fine tooth

reversible (60 teeth),
for use in confined spaces,
re-engages after movement of 6°,
DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	△ g	☐
13230011	265	40	26.2	485	1

517 Flexible joint ratchet

reversible (60 teeth),
handle may be raised or lowered by
approx. 90°. Lockable in following
positions: straight, 30° up,
60° up, 30° down.
Unlocked by depressing button
in handle, registered design.



Code	L mm	b mm	a mm	△ g	☐
13260001	415	43	26	793	1

520* RATCHFIX ratchet

reversing lever near handle
(36 teeth),
DIN 3122/ISO 3315.



Code	L mm	b mm	a mm	△ g	☐
13150001	267	44	20.5	577	1

* to be discontinued

522 Ratchet adaptor

reversible (20 teeth).



Code	L mm	∅ mm	△△ g	
13 14 0000	67.5	40	316	1

532 Ratchet

long handle, reversible
(36 teeth).



Code	L mm	b mm	a mm	△△ g	
13 12 00 10	380	41	21	812	1

Spare parts for ratchets No 512, 512SG, 532, 538

5120 + 7210/15 Spare parts set

Content:
1 Pinion
1 Pawl
1 Lever with pin
1 Ball
1 Compression Spring
2 Screws

Code	△△ g	
19 04 0000	127	1

for ratchets from 1990

Spare parts for ratchets No 512, 512SG-QR

5120 QR Spare parts set



Content:
1 Pinion
1 Pawl
1 Lever with pin
1 Ball
1 Compression Spring
2 Screws

Code	△△ g	
19 04 00 20	127	1

Spare parts for ratchets No 515, 517

7350/20 Spare parts sets

Content:
1 Pinion
1 Pawl
1 Switching disk
1 Spring
3 Screws

Code	△△ g	
59 25 10 20	146	1

for ratchets from 4/96

Spare parts for ratchet No 520

5200* Spare parts sets

Content:
1 Pinion
1 Pawl
1 Ball
1 Compression Spring
3 Screws

Code	△△ g	
19 16 00 00	122	1

* to be discontinued

501 Speeder brace

working radius 105 mm,
DIN 3122/ISO 3315.



Code	L mm	△△ g	
13 10 00 10	456	615	5

504 Flexible handle

DIN 3122/ISO 3315.



Code	size	L mm	△△ g	
13 06 00 11	10	269	515	5
13 06 00 12	15	397	700	5
13 06 00 13	18	469	824	5

5040 Spare parts set

for No 504.

Content:
1 Universal Joint
1 Screw
1 Spring Washer



Code	△△ g	
96 19 08 00	75	1

506 Sliding T-handle

DIN 3122/ISO 3315.



Code	L mm	⚖ g	📦
1307 0000	300	436	5

506QR QuickRelease sliding T-handle



with QuickRelease safety locks.



Code	L mm	⚖ g	📦
1307 1000	300	470	1

509 Extensions

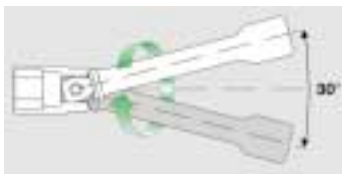
DIN 3123/ISO 3316.



Code	size	L mm	d mm	⚖ g	📦
1301 0001	2	52	23	88	5
1301 0004	3	75	23.2	120	5
1301 0002	5	130	23.2	191	5
1301 0003	10	255	23.2	341	5

Extensions with wobble-drive

swivel angle 15° each side, maximum torque 200 N m.



Code	No	L mm	d mm	⚖ g	📦
1301 0005	509/2W	52	23	88	5
1301 0006	509/3W	75	23.2	120	5
1301 0007	509/5W	130	23.2	191	5
1301 0008	509/10W	255	23.2	341	5

QuickRelease extensions



DIN 3123/ISO 3316.



Code	No	L mm	d mm	⚖ g	📦
1301 1001	509/2QR	52	23	90	1
1301 1004	509/3QR	75	23	123	1
1301 1002	509/5QR	130	23	187	1
1301 1003	509/10QR	255	23	341	1

TCS 1/2"-512/6



175 x 350 x 35 mm, 6 pieces

Code			⚖ g
968381 75			1845
	No 506	1/2" ■ 300 mm	
	No 509/2	1/2" ■ ○ 52 mm	
	No 509/5	1/2" ■ ○ 130 mm	
	No 509/10	1/2" ■ ○ 255 mm	
	No 510	1/2" ■ ○ 71 mm	
	No 512	1/2" ■	

3505 Special extension

for CROW-FOOT spanner No 3540



Code	L mm	d mm	⚖ g	📦
1321 0001	120	23.2	186	1

510 Universal joint

DIN 3123/ISO 3316.



Code	L mm	d mm	⚖ g	📦
1302 0000	71	25	146	5

510QR QuickRelease universal joint



DIN 3123/ISO 3316, with QuickRelease safety locks.



Code	L mm	d mm	△△ g	
1302 1000	80	25	157	1

513 Adaptor



1/2" socket x 3/8" plug
(12.5 x 10),
maximum torque 202 N m,
DIN 3123/ISO 3316,
HPQ high performance steel.



Code	L mm	d mm	△△ g	
1303 0002	35	22.7	55	5

514 Adaptor



1/2" socket x 3/4" plug
(12.5 x 20),
DIN 3123/ISO 3316,
HPQ high performance steel.



Code	L mm	d mm	△△ g	
1303 0005	44	25	118	5

7789-1 Adaptor



1/2" socket x 1" plug
(12.5 x 25 mm),
HPQ high performance steel.



Code	L mm	d mm	△△ g	
58 52 2089	35	36.5	175	1

409M/432M /514M/3 Set adaptors, 3 pieces

1/4" socket x 3/8" plug,
3/8" socket x 1/2" plug,
1/2" socket x 3/4" plug.



Code	△△ g	
96 12 1002	120	1

514M Adaptor

1/2" socket x 3/4" plug
(12.5 x 20 mm).



Code	L mm	∅ mm	△△ g	
1303 00 10	22	38	50	1

543 Bit holder

∅ 5/16" inside hexagon,
DIN 3126 form D 8/
ISO 1173 form D 8.

Internal hex drive with a collar-thrust spring (registered design). Bits are easy to insert, lock securely in position and can be removed just as easily; even hex bits with a wide groove (Type E, DIN 3126/ISO 1173).



Code	L mm	d mm	△△ g	
13 18 00 10	38	22	65	5

50/9/3 Socket set 1/2"

In sturdy sheet steel case,
12 pieces
Content:
9 sockets with bi-hexagon No 50:
sizes 10; 13; 16; 17; 18; 19; 21; 22;
24 mm
1 ratchet No 512
2 extensions
No 509/5 (130 mm),
No 509/10 (255 mm)



Code	△△ g
9603 01 43	2883

52/9/3 Socket set 1/2"

In sturdy sheet steel case,
12 pieces
Content:
9 sockets with hexagon No 52:
sizes 10; 13; 16; 17; 18; 19; 21; 22;
24 mm
1 ratchet No 512
2 extensions
No 509/5 (130 mm),
No 509/10 (255 mm)



Code	△△ g
96 03 03 43	2900

50/13/3 Socket set 1/2"

In sturdy sheet steel case,

16 pieces

Content:

13 sockets with bi-hexagon No 50:
sizes 10; 13; 16; 17; 18; 19; 21; 22;
24; 27; 30; 32; 34 mm

1 ratchet No 512

2 extensions

No 509/5 (130 mm),

No 509/10 (255 mm)



Code	g
96030135	4030

52/13/3 Socket set 1/2"

In sturdy sheet steel case,

16 pieces

Content:

13 sockets with hexagon No 52:
sizes 10; 13; 16; 17; 18; 19; 21; 22;
24; 27; 30; 32; 34 mm

1 ratchet No 512

2 extensions

No 509/5 (130 mm),

No 509/10 (255 mm)



Code	g
96030335	4125

54/8/4 Socket set 1/2"

In sturdy sheet steel case,

12 pieces

Content:

8 INHEX sockets No 54: sizes 4; 5;
6; 8; 10; 12; 14; 17 mm

1 ratchet No 512

2 extensions

No 509/5 (130 mm),

No 509/10 (255 mm)

1 T-handle No 506

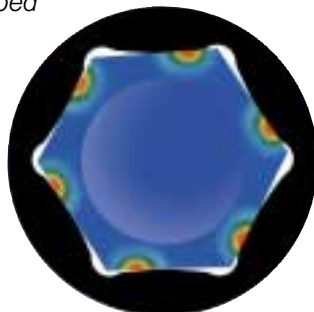


Code	g
96030501	3833

STAHLWILLE AS-Drive

STAHLWILLE sockets are equipped with the AS Drive profile: this permits high transmission of forces to the lands of nuts and bolts without damaging them. No longer will you have to worry about stripping the corners off nuts and bolts.

*Anti-Slip Drive

**50/17/5 Socket set 1/2"**

In sturdy sheet steel case,

22 pieces

Content:

15 sockets with bi-hexagon

No 50: sizes 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 21; 22; 24; 27;
30 mm

2 sockets, long, with rubber insert

No 51: sizes 16 mm - ⁵/₈";

20.8 mm - ¹³/₁₆"

1 ratchet No 512

2 extensions

No 509/5 (130 mm),

No 509/10 (255 mm)

1 T-handle No 506

1 universal joint No 510



Code	g
96030113	5295

52/17/5 Socket set 1/2"

In sturdy sheet steel case,

22 pieces

Content:

15 sockets with hexagon

No 52: sizes 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 21; 22; 24; 27;
30 mm

2 sockets, long, with rubber insert

No 51: sizes 16 mm - ⁵/₈";

20.8 mm - ¹³/₁₆"

1 ratchet No 512

2 extensions

No 509/5 (130 mm),

No 509/10 (255 mm)

1 T-handle No 506

1 universal joint No 510



Code	g
96030306	5078

50/17/6 Socket set 1/2"

In sturdy sheet steel case,

23 pieces

Content:

17 sockets with bi-hexagon

No 50: sizes 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 21; 22; 24; 27; 30;
32; 34 mm

1 ratchet No 512

3 extensions

No 509/3 (75 mm),

No 509/5 (130 mm),

No 509/10 (255 mm)

1 T-handle No 506

1 universal joint No 510



Code	g
96030147	5213

52/17/6 Socket set 1/2"

In sturdy sheet steel case,
23 pieces
Content:
17 sockets with hexagon
No 52: sizes 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 21; 22; 24; 27; 30;
32; 34 mm
1 ratchet No 512
3 extensions
No 509/3 (75 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	ΔΔ g
96030347	5300

52/17/6TCS Socket set 1/2"



In sturdy sheet steel case,
in TCS inlay,
23 pieces
Content:
17 sockets with hexagon
No 52: sizes 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 21; 22; 24; 27; 30;
32; 34 mm
1 ratchet No 512
3 extensions
No 509/3 (75 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	ΔΔ g
96030349	5300

STAHLWILLE's HPQ inserts

STAHLWILLE HPQ* sockets are manufactured from selected tough steel alloys. The result: they are extremely durable. HPQ sockets are free of cadmium and are therefore suitable for use on titanium alloy parts and titanium fasteners as used e.g. in the aerospace industry, where safety is a crucial factor.

*High Performance Quality



QR The QuickRelease system

Ratchets, handles, extensions, universal joints with safety locks.

- Secure, rapid connection between the individual components to form a single combined unit.
- Can only be separated by releasing the locking mechanism.
- Variable combinations of components possible.



3

52/17/6QR Socket set 1/2"



in sturdy ABS plastic case,
23 pieces
17 sockets with hexagon
No 52: sizes 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 21; 22; 24; 27; 30;
32; 34 mm
1 ratchet No 512QR
3 extensions
No 509/3QR (75 mm),
No 509/5QR (130 mm),
No 509/10QR (255 mm)
1 T-handle No 506QR
1 universal joint No 510QR



Code	ΔΔ g
96030380	4600

50/19/7 Socket set 1/2"

In sturdy sheet steel case,
26 pieces
Content:
19 sockets with bi-hexagon
No 50: sizes 8; 10; 11; 12; 13; 14;
15; 16; 17; 18; 19; 21; 22; 23; 24;
26; 27; 28; 30 mm
1 ratchet No 512
3 extensions
No 509/2 (52 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 flexible handle No 504/15
1 T-handle No 506
1 universal joint No 510



Code	ΔΔ g
96030142	7262

52/19/7 Socket set 1/2"

In sturdy sheet steel case,
26 pieces

Content:

19 sockets with hexagon
No 52: sizes 8; 10; 11; 12; 13; 14;
15; 16; 17; 18; 19; 21; 22; 23; 24;
26; 27; 28; 30 mm
1 ratchet No 512
3 extensions
No 509/2 (52 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 flexible handle No 504/15
1 T-handle No 506
1 universal joint No 510



Code	ΔΔ g
96030342	7354

50/23/6 Socket set 1/2"

In sturdy sheet steel case,
29 pieces

Content:

23 sockets with bi-hexagon
No 50: sizes 8; 9; 10; 11; 12; 13; 14;
15; 16; 17; 18; 19; 20; 21; 22; 23;
24; 26; 27; 28; 30; 32; 34 mm
1 ratchet No 512
3 extensions
No 509/3 (75 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	ΔΔ g
96030107	5822

52/23/6 Socket set 1/2"

In sturdy sheet steel case,
29 pieces

Content:

23 sockets with hexagon
No 52 sizes 8; 9; 10; 11; 12; 13; 14;
15; 16; 17; 18; 19; 20; 21; 22; 23;
24; 26; 27; 28; 30; 32; 34 mm
1 ratchet No 512
3 extensions
No 509/3 (75 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	ΔΔ g
96030307	5899

50ma/39/6N Socket set 1/2"

In sturdy sheet steel case,
45 pieces

Content:

39 sockets with bi-hexagon
No 50: sizes 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 20; 21; 22; 23; 24;
25; 26; 27; 28; 30; 32; 34 mm
No 50a: sizes 3/8; 7/16; 1/2; 9/16; 19/32;
5/8; 11/16; 3/4; 25/32; 13/16; 7/8; 15/16; 1;
1 1/16; 1 1/8; 1 3/16; 1 1/4"
1 ratchet No 512
3 extensions
No 509/3 (75 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	ΔΔ g
96030140	8560

40/52/27/11 Socket set 1/4"; 1/2"

In sturdy sheet steel case,
38 pieces

Content:

9 sockets with hexagon
No 40: sizes 4; 5; 5.5; 6; 7; 8; 9; 10;
11 mm
10 sockets with hexagon No 52:
sizes 13; 16; 17; 18; 19; 21; 22; 24;
27; 30 mm
3 INHEX sockets No 44:
sizes 3; 4; 5 mm
5 INHEX sockets No 54:
sizes 6; 8; 10; 12; 14 mm
2 ratchets No 415, No 512
4 extensions
No 405/2 (54 mm),
No 509/5 (130 mm),
No 405/6 (150 mm),
No 509/10 (255 mm)
2 universal joints No 407, No 510
1 drive handle No 400
2 T-handles No 404, No 506



Code	ΔΔ g
96010160	5472

50/54/26/6 Socket set 1/2"

In sturdy sheet steel case,
32 pieces
Content:
18 sockets with bi-hexagon
No 50: sizes 8; 10; 11; 12; 13; 14;
15; 16; 17; 18; 19; 21; 22; 24; 27;
30; 32; 34 mm
8 INHEX sockets No 54:
sizes 4; 5; 6; 7; 8; 10; 12; 14 mm
1 ratchet No 512
3 extensions
No 509/3 (75 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	⚖
	g
96030139	6798

52/54/26/6 Socket set 1/2"

In sturdy sheet steel case,
32 pieces
Content:
18 sockets with hexagon
No 52: sizes 8; 10; 11; 12; 13; 14;
15; 16; 17; 18; 19; 21; 22; 24; 27; 30;
32; 34 mm
8 INHEX sockets No 54:
sizes 4; 5; 6; 7; 8; 10; 12; 14 mm
1 ratchet No 512
3 extensions
No 509/3 (75 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	⚖
	g
96030339	6876


50/43/7 Socket set 1/2"

In sturdy sheet steel case,
50 pieces
Content:
23 sockets with bi-hexagon
No 50: sizes 8; 10; 11; 12; 13; 14;
15; 16; 17; 18; 19; 20; 21; 22; 23;
24; 25; 26; 27; 28; 30; 32; 34 mm
7 sockets, long, No 51:
sizes 13; 17; 18; 19; 22; 24; 27 mm
2 sockets, long, with rubber insert
No 51: sizes 16 mm - 5/8",
20.8 mm - 13/16"
6 UNIFLEX sockets with hexagon
No 53: sizes 10; 13; 16; 17; 18;
19 mm
5 INHEX sockets No 54:
sizes 4; 5; 6; 8; 10 mm
1 ratchet No 512
3 extensions
No 509/3 (75 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 flexible handle No 504/15
1 T-handle No 506
1 universal joint No 510



Code	⚖
	g
96030136	10710

87N Socket set 1/2"

In sturdy sheet steel case,
47 pieces
Content:
19 sockets with bi-hexagon
No 50: sizes 8; 9; 10; 11; 12; 13; 14;
15; 16; 17; 18; 19; 21; 22; 24; 27; 30;
32; 34 mm
2 sockets, long, with rubber insert
No 51: sizes 16 mm - 5/8";
20.8 mm - 13/16"
7 INHEX sockets No 54:
sizes 4; 5; 6; 7; 8; 10; 12 mm
13 combination spanners No 13:
sizes 10; 11; 12; 13; 14; 15; 16; 17;
18; 19; 21; 22; 24 mm
1 ratchet No 512
3 extensions
No 509/3 (75 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	⚖
	g
96030101	8725

876N Socket set 1/2"

In sturdy sheet steel case,
47 pieces
Content:
19 sockets with hexagon
No 52: sizes 8; 9; 10; 11; 12; 13; 14;
15; 16; 17; 18; 19; 21; 22; 24; 27; 30;
32; 34 mm
2 sockets, long, with rubber insert
No 51: sizes 16 mm - 5/8";
20.8 mm - 13/16"
7 INHEX sockets No 54:
sizes 4; 5; 6; 7; 8; 10; 12 mm
13 combination spanners No 13:
sizes 10; 11; 12; 13; 14; 15; 16; 17;
18; 19; 21; 22; 24 mm
1 ratchet No 512
3 extensions
No 509/3 (75 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	ΔΔ g
96030301	8840

50TX/16/5 Socket set TORX® 1/2"

In sturdy sheet steel case,
21 pieces
Content:
7 sockets for external TORX® screws
No 50TX: sizes E10; E12; E14; E16;
E18; E20; E24
9 screwdriver sockets for internal
TORX® screws
No 54TX: sizes T20; T25; T27; T30;
T40; T45; T50; T55; T60
1 ratchet No 512
3 extensions
No 509/2 (52 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 universal joint No 510



Code	ΔΔ g
96032702	4315

87TX Socket set TORX® 1/2"

In sturdy sheet steel case,
39 pieces
Content:
12 sockets with bi-hexagon
No 50: sizes 8; 10; 13; 16; 17; 18;
19; 21; 22; 24; 27; 30 mm
6 INHEX sockets No 54: sizes 5; 6;
8; 10; 12; 14 mm
7 sockets for external TORX®
screws No 50TX: sizes E10; E12;
E14; E16; E18; E20; E24
9 screwdriver sockets for internal
TORX® screws
No 54TX: sizes T20; T25; T27; T30;
T40; T45; T50; T55; T60
1 ratchet No 512
2 extensions
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	ΔΔ g
98810907	7202

876TX Socket set TORX® 1/2"

In sturdy sheet steel case,
39 pieces
Content:
12 sockets with hexagon
No 52: sizes 8; 10; 13; 16; 17;
18; 19; 21; 22; 24; 27; 30 mm
6 INHEX sockets No 54:
sizes 5; 6; 8; 10; 12; 14 mm
7 sockets for external TORX®
screws No 50TX:
sizes E10; E12; E14; E16; E18; E20;
E24
9 screwdriver sockets for internal
TORX® screws
No 54TX: sizes T20; T25; T27; T30;
T40; T45; T50; T55; T60
1 ratchet No 512
2 extensions
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	ΔΔ g
98810909	7203

89TX Socket set TORX® 1/4; 3/8; 1/2"

In sturdy sheet steel case,
35 pieces
Content:
3 sockets for external TORX®
screws No 40TX: sizes E4; E5; E6
2 screwdriver sockets for internal
TORX® screws No 44KTX:
sizes T8; T9
4 sockets for external TORX®
screws No 45TX:
sizes E7; E8; E10; E12
5 screwdriver sockets for internal
TORX® screws No 49TX:
sizes T10; T15; T20; T25; T27
6 sockets for external TORX®
screws No 50TX: sizes E11; E14;
E16; E18; E20; E24
6 screwdriver sockets for internal
TORX® screws No 54TX:
sizes T30; T40; T45; T50; T55; T60
7 bits ④ 1440: T10; 1441: T15;
1442: T20; 1443: T25; 1444: T27;
1445: T30; 1446: T40
1 bit-holder No 442
1 TORX® controller: sizes E6; E7;
E8; E10; E12; E14; E16; T10; T15;
T20; T25; T27; T30; T40; T45; T47;
T50; T55; T60



Code	⚙️ g
98810908	2785

85TX Socket set TORX® 1/4; 3/8; 1/2"

In sturdy sheet steel case,
57 pieces
Content:
4 double ended ring spanners for
external TORX® screws
No 21TX: sizes E6 x E8; E10 x E12;
E14 x E18; E20 x E24
5 sockets for external TORX®
screws No 40TX:
sizes E4; E5; E6; E7; E8
3 sockets for external TORX®
screws No 45TX:
sizes E10; E12; E14
5 sockets for external TORX®
screws No 50TX: sizes E11; E16;
E18; E20; E24
5 screwdriver sockets for internal
TORX® screws No 54TX: sizes T40;
T45; T50; T55; T60
4 bits ④ 1410: T6; 1411: T7;
1412: T8; 1413: T9;
7 bits ④ 1440: T10; 1441: T15;
1442: T20; 1443: T25; 1444: T27;
1445: T30; 1446: T40
1 bit ④ 1427: T25 (65 mm)
10 TORX® DRALL screwdrivers
No 4750: sizes T6; T7; T8; T9; T10;
T15; T20; T25; T27; T30
11 angled screwdrivers for internal
TORX® screws No 10766:
sizes T6; T7; T8; T9; T10; T15; T20;
T25; T27; T30; T40
1 ratchet No 415SGB
1 bit-holder No 442



Code	⚙️ g
98810402	4610

86TX Socket set TORX® 1/4; 1/2"

In sturdy sheet steel case,
63 pieces
Content:
9 sockets with hexagon
No 40: sizes 4; 5; 5.5; 6; 7; 8; 9; 10;
11 mm
10 sockets with hexagon
No 52: sizes 13; 16; 17; 18; 19; 21;
22; 24; 27; 30 mm
5 sockets for external TORX®
screws No 40TX:
sizes E4; E5; E6; E7; E8
7 sockets for external TORX®
screws No 50TX:
sizes E10; E12; E14; E16;
E18; E20; E24
3 IN HEX sockets No 44:
sizes 3; 4; 5 mm
5 IN HEX sockets No 54:
sizes 6; 8; 10; 12; 14 mm
6 screwdriver sockets for internal
TORX® screws No 44KTX:
sizes T8; T9; 10; T15; T20; T25
7 screwdriver sockets for internal
TORX® screws No 54TX:
sizes T27; T30; T40; T45; T50;
T55; T60
2 ratchets No 415, No 512
4 extensions
No 405/2 (54 mm),
No 509/5 (130 mm),
No 405/6 (150 mm),
No 509/10 (255 mm)
2 universal joints No 407, No 510
1 drive handle No 400
2 T-handles No 404, No 506



Code	⚙️ g
96012702	7492

50a/13/3 Socket set 1/2"

In sturdy sheet steel case,
16 pieces
Content:
13 sockets with bi-hexagon
No 50a: sizes 3/8; 7/16; 1/2; 9/16; 5/8;
11/16; 3/4; 13/16; 7/8; 15/16; 1; 1 1/16; 1 1/8"
1 ratchet No 512
2 extensions
No 509/5 (130 mm),
No 509/10 (255 mm)



Code	⚙️ g
96034104	4062

50a/17/6 Socket set 1/2"

In sturdy sheet steel case,
23 pieces
Content:
17 sockets with bi-hexagon
No 50a: sizes 3/8; 7/16; 1/2; 9/16; 19/32;
5/8; 11/16; 3/4; 25/32; 13/16; 7/8; 15/16; 1;
1 1/16; 1 1/8; 1 3/16; 1 1/4"
1 ratchet No 512
3 extensions
No 509/2 (52 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	ΔΔ g
96034125	5371

50ma/39/6N Socket set 1/2"

In sturdy sheet steel case,
45 pieces
Content:
39 sockets with bi-hexagon
No 50: sizes 10; 11; 12; 13; 14; 15;
16; 17; 18; 19; 20; 21; 22; 23; 24;
25; 26; 27; 28; 30; 32; 34 mm
No 50a: sizes 3/8; 7/16; 1/2; 9/16; 19/32;
5/8; 11/16; 3/4; 25/32; 13/16; 7/8; 15/16; 1;
1 1/16; 1 1/8; 1 3/16; 1 1/4"
1 ratchet No 512
3 extensions
No 509/3 (75 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	ΔΔ g
96030140	8560

87aN Socket set 1/2"

In sturdy sheet steel case,
40 pieces
Content:
15 sockets with bi-hexagon
No 50a: sizes 3/8; 7/16; 1/2; 9/16; 5/8;
11/16; 3/4; 13/16; 7/8; 15/16; 1; 1 1/16;
1 1/8; 1 3/16; 1 1/4"
2 sockets, long, with rubber insert
No 51: sizes 16 mm - 5/8";
20.8 mm - 13/16"
5 INHEX sockets No 54a:
sizes 7/32; 1/4; 5/16; 3/8; 1/2 "
12 combination spanners No 13a:
sizes 1/4; 5/16; 11/32; 3/8; 7/16; 1/2;
9/16; 5/8; 11/16; 3/4; 13/16; 7/8"
1 ratchet No 512
3 extensions
No 509/2 (52 mm),
No 509/5 (130 mm),
No 509/10 (255 mm)
1 T-handle No 506
1 universal joint No 510



Code	ΔΔ g
96034101	7947

ES 1/2" -512/6



175 x 350 x 46 mm, 6 pieces

Code	ΔΔ g
96838113	1915

	No 506	1/2" ■ 300 mm
	No 509/2	1/2" ■ ○ 52 mm
	No 509/5	1/2" ■ ○ 130 mm
	No 509/10	1/2" ■ ○ 255 mm
	No 510	1/2" ■ ○ 71 mm
	No 512	1/2" ■
83 81 20 29	Empty tray	110

3

STAHLWILLE's HPQ inserts

STAHLWILLE HPQ* sockets are manufactured from selected tough steel alloys. The result: they are extremely durable. HPQ sockets are free of cadmium and are therefore suitable for use on titanium alloy parts and titanium fasteners as used e.g. in the aerospace industry, where safety is a crucial factor.



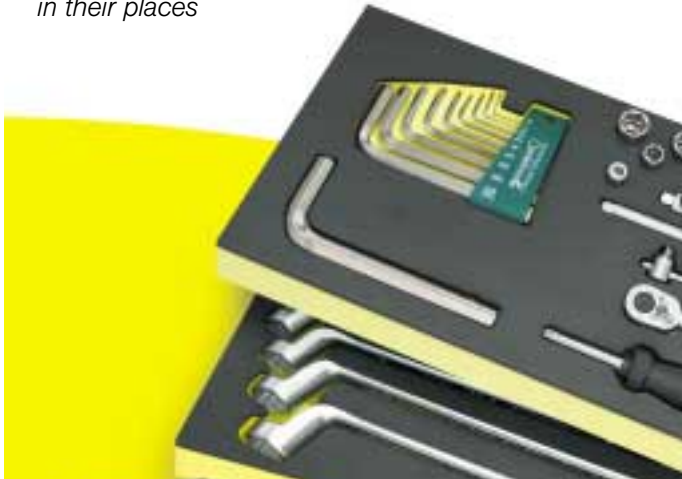
*High Performance Quality



Tool Control System

The safety inlay system

- Designed to fit our Tool Trolleys and Tool Boxes
- With yellow signal cut-outs to show whether all tools are in their places



TCS 1/2"-512/6



175 x 350 x 35 mm, 6 pieces

Code		♻️	g
96838175			1845
No 506	1/2" ■ 300 mm		
No 509/2	1/2" ■ ○ 52 mm		
No 509/5	1/2" ■ ○ 130 mm		
No 509/10	1/2" ■ ○ 255 mm		
No 510	1/2" ■ ○ 71 mm		
No 512	1/2" ■		

TCS 50/52/25/5



350 x 350 x 45 mm, 30 pieces

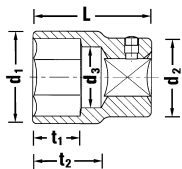
Code		♻️	g
96830162			3652
No 50	1/2" ○ sizes 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 30 mm		
No 52	1/2" ○ sizes 12; 17; 18; 19; 20; 21; 22; 24; 25; 27; 30; 32 mm		
No 509/2	1/2" ■ ○ 52 mm		
No 509/5	1/2" ■ ○ 130 mm		
No 509/10	1/2" ■ ○ 255 mm		
No 510	1/2" ■ ○ 71 mm		
No 512	1/2" ■		



55 Sockets



DIN 3124/ISO 2725-1, ASME B 107.5 M, AS drive and HPQ high performance steel up to size 38, chrome plated.

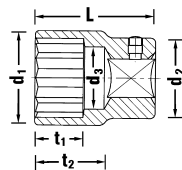


Code	mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δg	g	⊠
05010019	19	28.5	34.7	17	50	16	26	183	5	
05010021	21	31	34.7	18	50	16	26	226	5	
05010022	22	32	34.7	19	51	17	25.2	199	5	
05010023	23	33.5	34.7	20	51	17	24.9	206	5	
05010024	24	34	34.7	21	51	18.5	24.6	200	5	
05010027	27	38.5	38	24	54	20	26.8	263	5	
05010028	28	39.5	38	25	57	20	29.5	298	5	
05010029	29	41	38	26	57	20	29.2	303	5	
05010030	30	42	38	27	58	21	33.6	313	5	
05010032	32	44.5	38	29	58	22	33	326	2	
05010033	33	46	40	30	60	22	34.7	372	2	
05010034	34	47	40	31	60	24	34.4	363	2	
05010036	36	49.5	40	33	60	24	33.9	386	2	
05010038	38	52	40	35	64	30	37.3	429	2	
05010041	41	55.5	40	33	67	30	37.5	498	2	
05010046	46	61	40	33	73	34	43.5	592	1	
05010050	50	66	40	33	80	34	48.5	769	1	
05010055	55	72	45	33	80	36	49.5	954	1	
05010060	60	78	45	33	80	40	50.5	1091	1	

55a Sockets



SAE AS 954-E (test loads), ASME B 107.1, AS drive and HPQ high performance steel up to size 1 1/2, chrome plated.



Code	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δg	g	⊠
05410040	3/4	28.5	34.7	18.6	50	16	26	176	2	
05410042	13/16	31	34.7	19.4	51	16.5	25.1	190	2	
05410044	7/8	33	34.7	21	51	18	24.5	240	2	
05410046	15/16	34	34.7	22.5	51	18.5	24.2	248	2	
05410048	1	37	38	24	52	20	24.8	251	2	
05410050	1 1/16	38.5	38	26	54	20	26.2	265	2	
05410052	1 1/8	41	38	27.5	57	20	32.5	297	2	
05410056	1 1/4	44.5	38	30.5	58	22	32.6	339	2	
05410058	1 5/16	46.5	40	32.1	59	24	33.1	368	2	
05410060	1 3/8	48.5	40	33.7	59	24	32.7	375	2	
05410062	1 7/16	50	40	35.3	60	27	33.2	395	2	
05410064	1 1/2	52	40.5	36.8	64	30	36.8	415	2	
05410066	1 5/8	56	40	33	67	30	37.5	469	1	
05410067	1 11/16	58	40	33	70	32	40.5	524	1	
05410068	1 3/4	59.5	40	33	70	32	40.5	524	1	
05410069	1 13/16	61.5	40	33	73	34	43.5	585	1	
05410070	1 7/8	63.5	40	33	76	34	45	651	1	
05410072	2	67	40	33	80	34	48.5	757	1	
05410075	2 3/16*	73	45	33	80	36	49.5	901	1	
05410076	2 1/4	74.5	45	33	80	36	49.5	903	1	

* to be discontinued

56 Sockets



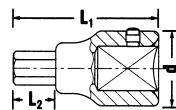
DIN 3124/ISO 2725-1, ASME B 107.5 M, extra deep, AS drive and HPQ high performance steel up to size 36, chrome plated.



Code	mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δg	g	⊠
05020022	22	32	34.7	19	90	40	64.2	374	5	
05020024	24	34	34.7	21	90	40	63.6	341	5	
05020027	27	38.5	38	24	90	40	62.8	443	5	
05020030	30	42	38	27	90	40	65.6	477	5	
05020032	32	44.5	38	29	90	40	65	526	2	
05020034	34	47	40	31	90	40	64.4	562	2	
05020036	36	49.5	40	33	90	40	63.9	620	2	
05020041	41	55.5	40	38	90	40	58.5	714	2	

59 INHEX sockets

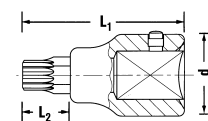
for socket head screws, DIN 7422, Chrome Alloy Steel, chrome plated.



Code	mm	L ₁ mm	L ₂ mm	d mm	Δg	g	⊠
05050014	14	80	25	34.7	272	1	
05050017	17	80	25	34.7	311	1	
05050019	19	80	25	34.7	346	1	
05050022	22	80	25	40	515	1	

59X Screwdriver sockets

for trisquare socket head screws (XZN®), Chrome Alloy Steel, chrome plated.

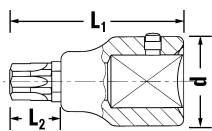


Code	size	L ₁ mm	L ₂ mm	d mm	Δg	g	⊠
05060014	M14	90	35	34.7	281	1	
05060016	M16	80	25	34.7	302	1	
05060018	M18	100	45	34.7	310	1	

Application: Flywheel and oscillation damper on DaimlerChrysler commercial vehicles - engines in series 500 from model year 12/95 and series 900 from model year 6/96 on

59TX Screwdriver sockets

for inside TORX® screws,
Chrome Alloy Steel, chrome plated.

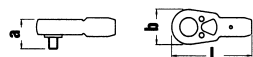


Code	size	mm	L ₁ mm	L ₂ mm	d mm	ΔΔ g	
05 10 00 60	T60	13.2	80	25	34.7	265	1
05 10 00 70	T70	15.5	80	25	34.7	285	1
05 10 00 80	T80	17.6	80	25	34.7	300	1
05 10 00 90	T90	19.9	80	25	34.7	331	1
05 10 01 00	T100	22.1	80	25	40	474	1

Application: size T80 for MAN series M,
size T100 for MAN series F

Drive tools and accessories

3/4" □, finish: Chrome Alloy Steel, chrome plated.



552 Ratchet

reversible (36 teeth),
without Bar Handle No 558.



Code	L mm	b mm	a mm	ΔΔ g	
15 11 00 00	165	70	60	1684	1

5520 Spare parts set for ratchet No 552

Content:
1 Pinion
1 Pawl
1 Lever
1 Ball
1 Compression Spring
2 Screws

Code	g	
19 05 00 00	536	1

563 Ratchet adaptor

reversible (44 teeth).



Code	L mm	∅ mm	ΔΔ g	
15 14 00 00	105.5	63	1257	1

554 Flexible head

without Bar Handle No 558.



Code	L mm	d mm	ΔΔ g	
15 06 00 00	131	40	612	5

556 Sliding head for Sliding T-Handle

without Bar Handle No 558



Code	L mm	d mm	ΔΔ g	
15 07 00 00	61.5	40	318	5

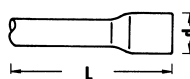
558 Bar handle



Code	L mm	d mm	ΔΔ g	
15 17 00 00	510	20	1259	2

559 Extensions

DIN 3123/ISO 3316.



Code	size	L mm	d mm	ΔΔ g	
15 01 00 03	4	95	35	369	5
15 01 00 01	8	200	35	696	5
15 01 00 02	16	400	35	1255	5

561 Universal joint

DIN 3123/ISO 3316.



Code	L mm	d mm	ΔΔ g	
15 02 00 00	109	40	566	1

568 Adaptor



3/4" socket x 1/2" plug (20 x 12.5),
maximum torque 512 N m,
DIN 3123/ISO 3316,
HPQ high performance steel.



Code	L mm	d mm	ΔΔ g	
15 03 00 03	55	34.7	203	5

569 Adaptor



3/4" inside x 1" plug (20 x 25),
DIN 3123/ISO 3316,
HPQ high performance steel.



Code	L mm	d mm	⚖ g	📦
15030006	61	34.7	295	5

55/10/6 Socket set 3/4"

In sturdy sheet steel case,
16 pieces
Content:
10 sockets with hexagon
sizes 22; 24; 27; 30; 32; 34; 36; 41;
46; 50 mm
1 ratchet No 552
2 extensions
No 559/8 (200 mm),
No 559/16 (400 mm)
1 flexible head No 554
1 sliding head for T-handle No 556
1 bar handle No 558



Code	⚖ g
96050104	14875

55/9/6N Socket set 3/4"

In sturdy sheet steel case,
15 pieces
Content:
9 sockets with hexagon
No 55: sizes 32; 34; 36; 38; 41; 46;
50; 55; 60 mm
1 ratchet No 552
2 extensions
No 559/8 (200 mm),
No 559/16 (400 mm)
1 flexible head No 554
1 sliding head for T-handle No 556
1 bar handle No 558



Code	⚖ g
96050103	15731



55a/10/5 Socket set 3/4"

In sturdy sheet steel case,
15 pieces
Content:
10 sockets with bi-hexagon
No 55a: sizes 1 1/16; 1 1/8; 1 1/4;
1 3/8; 1 7/16; 1 1/2; 1 5/8; 1 3/4;
1 13/16; 1 7/8"
1 ratchet No 552
2 extensions
No 559/8 (200 mm),
No 559/16 (400 mm)
1 sliding head for T-handle No 556
1 bar handle No 558



Code	⚖ g
96054101	13260

55a/16/6 Socket set 3/4"

In sturdy sheet steel case,
22 pieces
Content:
16 sockets with bi-hexagon
No 55a: sizes 7/8; 15/16; 1; 1 1/16; 1 1/8;
1 1/4; 1 5/16; 1 3/8; 1 7/16; 1 1/2; 1 5/8;
1 11/16; 1 3/4; 1 13/16; 1 7/8; 2"
1 ratchet No 552
2 extensions
No 559/8 (200 mm),
No 559/16 (400 mm)
1 flexible head No 554
1 sliding head for T-handle No 556
1 bar handle No 558



Code	⚖ g
96054103	16951

ES 55/6/3



530 x 350 x 83 mm, 10 pieces

Code	⚖ g
96838174	7875

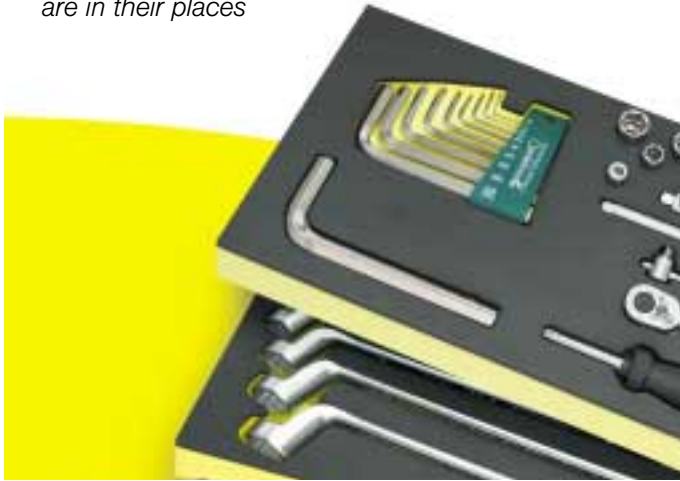
	No 55	3/4" ○ sizes 34; 36; 41; 46; 50; 55 mm
	No 552	3/4" ■
	No 556	3/4" ■
	No 558	510 mm
	No 559/8	3/4" ■ ○ 200 mm
83 81 20 89	Empty tray	298



Tool Control System

The safety inlay system

- Designed to fit our Tool Trolleys and Tool Boxes
- With yellow signal cut-outs to show whether all tools are in their places



TCS 55/10/5



530 x 350 x 90 mm, 15 pieces

Code		$\Delta\Delta$ g
96830173		9510
No 55	$\frac{3}{4}$ " \square sizes 22; 24; 27; 30; 32; 36; 38; 41; 46; 50 mm	
No 552	$\frac{3}{4}$ " \blacksquare	
No 556	$\frac{3}{4}$ " \blacksquare	
No 559/8	$\frac{3}{4}$ " \blacksquare \circ 200 mm	
No 559/16	$\frac{3}{4}$ " \blacksquare \circ 400 mm	
No 558	510 mm	

60 Sockets



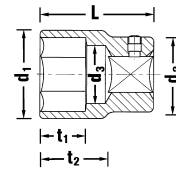
DIN 3124/ISO 2725-1, AS drive and HPQ high performance steel up to size 36, chrome plated.



Code	\circ mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	$\Delta\Delta$ g	
06010030	30	42.5	43	27	65	20	33.1	371	2
06010032	32	45	43	29	67	24	34.6	374	2
06010034	34	47	43	31	67	24	34	372	2
06010036	36	49.5	48	33	67	24	33.4	493	2
06010041	41	55.5	48	33	70	30	37.5	520	1
06010046	46	61	48.5	33	75	32	43.5	622	1
06010050	50	66	48	33	80	34	47.5	707	1
06010055	55	72	48	33	85	36	49.5	920	1
06010060	60	78	48	33	90	40	56.5	992	1

60 Sockets

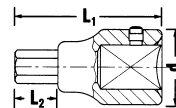
DIN 3124,
Chrome Alloy Steel, chrome plated.



Code	\circ mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	$\Delta\Delta$ g	
06010065	65	87	60	33	105	40	68.5	1917	1
06010070	70	94	60	33	110	42	72.5	2210	1
06010075	75	101	60	33	115	45	78.5	2525	1
06010080	80	108	60	33	120	48	83.5	2863	1

64 INHEX sockets

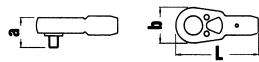
DIN 7422,
Chrome Alloy Steel, chrome plated.



Code	\circ mm	L ₁ mm	L ₂ mm	d mm	$\Delta\Delta$ g	
06050014	14	85	25	43	390	1
06050017	17	85	25	43	417	1
06050019	19	85	25	43	445	1
06050022	22	90	25	48	661	1
06050024	24	90	25	48	719	1
06050027	27	90	25	49	827	1

Drive tools and accessories

1" □, finish: Chrome Alloy Steel, chrome plated.



882 Ratchet

reversible (36 teeth), without Bar Handle No 888.



Code	L mm	b mm	a mm	Δg	g	☐
16110000	185	70	60	2000		1

8820 Spare parts set for ratchet No 882

Content:

- 1 Pinion
- 1 Pawl
- 1 Lever
- 1 Ball
- 1 Compression Spring
- 2 Screws

Code	Δg	g	☐
19070000	609		1

884 Flexible head

without Bar Handle No 888.



Code	L mm	d mm	Δg	g	☐
16060000	195	48	1800		1

886 Sliding head

without Bar Handle No 888.



Code	L mm	d mm	Δg	g	☐
16070000	80	48	605		1

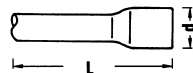
888 Bar handle



Code	L mm	d mm	Δg	g	☐
16170000	700	28	3320		1

859 Extensions

DIN 3123/ISO 3316.



Code	size	L mm	d mm	Δg	g	☐
16010001	8	200	43	965		2
16010002	16	410	43	1780		2

866 Adaptor



1" socket x 3/4" plug (25 x 20), maximum torque 1412 N m, DIN 3123/ISO 3316, HPQ high performance steel.



Code	L mm	d mm	Δg	g	☐
16030005	70	43	332		2

60/6/6/882 Socket set 1" □

In sturdy sheet steel case, 12 pieces

Content:

- 6 sockets with bi-hexagon No 60: sizes 36; 41; 46; 50; 55; 60 mm
- 1 ratchet No 882
- 2 extensions No 859/8 (200 mm), No 859/16 (400 mm)
- 1 flexible head No 884
- 1 sliding head for T-handle No 886
- 1 bar handle No 888



Code	Δg	g
96060101	27800	

60/8/6/882 Socket set 1" □

In sturdy sheet steel case, 14 pieces

Content:

- 4 sockets with bi-hexagon No 60: sizes 46; 50; 55; 60 mm
- 4 sockets with hexagon No 60: sizes 65; 70; 75; 80 mm
- 1 ratchet No 882
- 2 extensions No 859/8 (200 mm), No 859/16 (400 mm)
- 1 flexible head No 884
- 1 sliding head for T-handle No 886
- 1 bar handle No 888



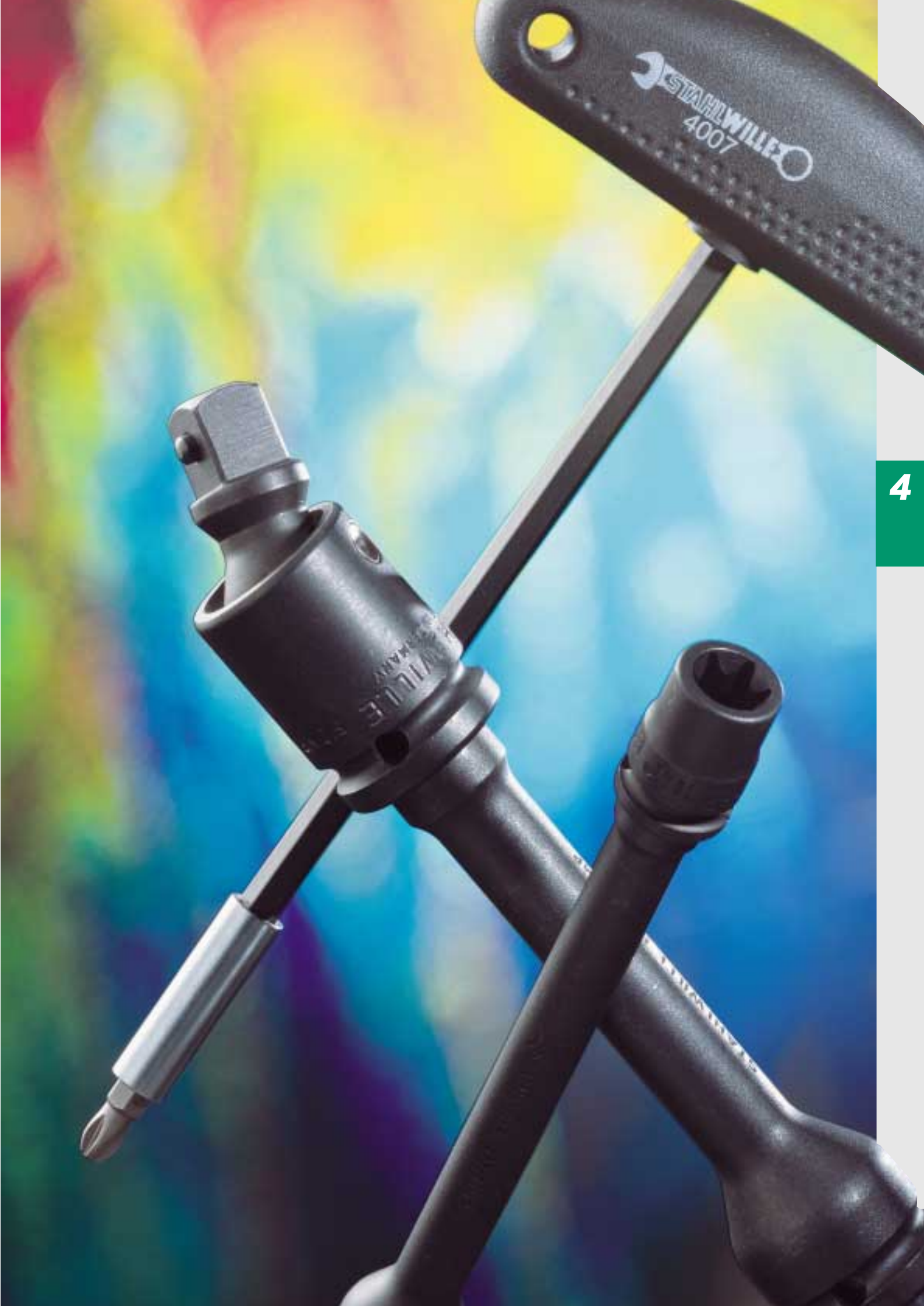
Code	Δg	g
96060103	30000	

**Empty
boxes and
trays**

Set No	Box No	mm	Box Code	Tray Code
40/9/4, 40D/9/4	40/9	220x110x35	81 25 00 09	83 01 02 12
40/13/6	40/9	220x110x35	81 25 00 09	83 01 03 80
40/13/6QR	40/9K	220x110x40	81 25 10 09	83 01 03 80
40/15/6N	40/9	220x110x35	81 25 00 09	83 01 09 15
40/44/17/5	40/9	220x110x35	81 25 00 09	83 01 02 81
40/44/17/5QR	40/9K	220x110x40	81 25 10 09	83 01 02 81
40/23/7, 40D/23/7	45/1	312x115x40	81 26 00 01	83 01 03 16
40/23/6N, 40D/23/6	40/9	220x110x35	81 25 00 09	83 01 09 14
40/24/6	40/9K	220x110x40	81 25 10 09	83 01 09 82
40/24/6QR	40/9K	220x110x40	81 25 10 09	83 01 09 82
40ma/25/8	40/7	405x160x43	81 25 00 04	83 02 01 35
40/45/37/12	40/7	405x160x43	81 25 00 04	83 01 07 11
40/52/27/11	50/4	445x185x52	81 27 00 04	83 03 04 04
40TX/44KTX/15/6	40/9	220x110x35	81 25 00 09	83 01 09 07
88TX	45/1	312x115x40	81 26 00 01	83 02 01 17
89TX	40/7	405x160x43	81 25 00 04	83 09 00 13
40/45/35/	50/4	445x185x52	81 27 00 04	83 01 07 12
85TX	50/6	470x220x70	81 27 00 09	83 09 00 14
86TX	50/6	470x220x70	81 27 00 09	83 03 09 02
40a/9/4, 40aD/9/4	40/9	220x110x35	81 25 00 09	83 01 02 12
40aD/10/8	40/9	220x110x35	81 25 00 09	83 01 09 16
40aD/25/8	40/7	405x160x43	81 25 00 04	83 01 04 12
45/11/4, 456/11/4	45/1	312x115x40	81 26 00 01	83 02 01 13
45/14/5i, 456/14/5i	45/1	312x115x40	81 26 00 01	83 02 01 80
45/14/5iQR	45/1K	315x115x45	81 26 10 01	83 02 01 80
45/14/5N, 456/14/5	45/1	312x115x40	81 26 00 01	83 02 01 45
45ma/28/5	40/7	405x160x43	81 25 00 04	83 02 03 27
45/49/20/5, 456/49/20/5	40/7	405x160x43	81 25 00 04	83 02 01 21
45/49/22/6	40/7	405x160x43	81 25 00 04	83 02 02 04
89N, 896N	50/6	470x220x70	81 27 00 09	83 02 01 18
45/41/9	50/5	530x265x50	81 27 00 05	83 02 02 02
45TX/7	-	-	-	83 06 00 15
49TX/8	-	-	-	83 06 00 14
45TX/49TX/15/5	45/1	312x115x40	81 26 00 01	83 02 01 19
45TX/20/7	45/1	312x115x40	81 26 00 01	83 02 01 12
45/49/32/	40/7	405x160x43	81 25 00 04	83 01 04 09
45a/8/4	45/1	312x115x40	81 26 00 01	83 02 01 04
45a/13/5	45/1	312x115x40	81 26 00 01	83 02 01 08
45a/12/9, 45a/19/9	50/4	445x185x52	81 27 00 04	83 03 05 12
45a/33/13	50/5	530x265x50	81 27 00 05	83 02 02 13

**Empty
boxes and
trays**

Set No	Box No	mm	Box Code	Tray Code
50/9/3, 52/9/3	50/2	405x100x50	81 27 00 02	83 03 03 25
50/13/3, 52/13/3	50/3	405x160x52	81 27 00 03	83 03 03 12
51/8	50/1	312x115x50	81 27 00 01	83 03 02 02
54/10	40/9	220x110x35	81 25 00 09	83 01 09 02
54CV/9	40/9	220x110x35	81 25 00 09	83 03 09 09
54/8/4	50/3	405x160x52	81 27 00 03	83 03 03 13
50/17/5, 52/17/5	50/4	445x185x52	81 27 00 04	83 03 03 09
50/17/6, 52/17/6	50/4	445x185x52	81 27 00 04	83 03 04 80
52/17/6QR	50/4K	440x185x55	81 27 10 04	83 03 04 80
50/19/7, 52/19/7	50/5	530x265x50	81 27 00 05	83 03 03 24
50/23/6, 52/23/6	50/4	445x185x52	81 27 00 04	83 03 03 07
50ma/39/6N	50/5	530x265x50	81 27 00 05	83 03 04 26
50/54/26/6, 52/54/26/6	50/6	470x220x70	81 27 00 09	83 03 04 17
50/43/7	50/5	530x265x50	81 27 00 05	83 03 05 11
87N, 876N	50/6	470x220x70	81 27 00 09	83 09 00 11
50TX/7	-	-	-	83 06 00 09
54TX/9	-	-	-	83 06 00 10
54TX/10	40/9	220x110x35	81 25 00 09	83 01 09 02
54TXB/9	-	-	-	83 06 00 10
54TXB/10	40/9	220x110x35	81 25 00 09	83 01 09 02
50TX/16/5	50/4	445x185x52	81 27 00 04	83 03 03 11
87TX, 876TX	50/6	470x220x70	81 27 00 09	83 09 00 05
50a/13/3	50/4	445x185x52	81 27 00 04	83 03 03 23
50a/17/6	50/4	445x185x52	81 27 00 04	83 03 03 41
87aN	50/6	470x220x70	81 27 00 09	83 09 00 12
55/10/6	55/7 	575x220x86	81 29 00 08	83 04 00 02 
55/9/6N	55/7 	575x220x86	81 29 00 08	83 04 00 01 
55a/10/5	55/6 	520x160x86	81 29 00 07	83 04 00 03 
55a/16/6	55/7 	575x220x86	81 29 00 08	83 04 00 04 
60/6/6/882	60/1	785x173x90	81 30 00 01	-
60/8/6/882	60/2	785x200x122	81 30 00 02	-



Power tools

STAHLWILLE IMPACT.

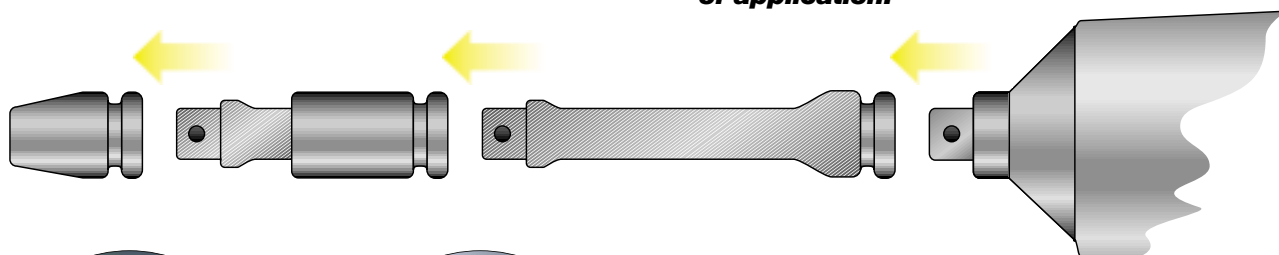
Tried-and-tested components for professional use in conjunction with compressed air and electric impact screwdrivers.

All the tools in the IMPACT product range have been designed for particularly heavy-duty work on a day-to-day basis. Used as additional tools in conjunction with power impact tools they feature extremely good load-bearing capacity and very long lifetimes.

It is not only the professionals in the car-repair sector who appreciate the excellent precision and reliability of IMPACT tools. The name IMPACT is a by-word in all fields of industry and the trades for leading-edge quality made by professionals for professionals. The comprehensive range of products caters for all potential fields of application.



Joints:
1 Deep groove for O-ring to improve grip and **2** straight-through central bore for locking pin. **3** Bevelled edge facilitates attachment. **4** Recessed keyway adaptors with spring-loaded pins on the square drive, e.g. No 3116, 3216.



STAHLWILLE IMPACT sockets are extraordinarily tough. Their remarkable fitting accuracy, which is due to very tight tolerances, guarantees minimum loss of force as the impact is transferred from the impact screwdriver to the socket insert and also dramatically improved durability.



STAHLWILLE IMPACT sockets are made from high-grade chrome alloy steel. They are hardened in an oil bath to ensure they are normalised and non-warping, making them extremely accurate tools with very close tolerances.

IMPACT quality is available individually or in sets

- Whatever else the professional might want in a tool, there is no compromising on the quality. The extensions, adaptors, joints and sockets will always fit – perfectly. Combine them as you need them. Slot them together. Done.

No. 50IMP/6/2



No. 2309K

e.g. 1/2" □ wheel nut socket (SW 17; 19 and 20.8 mm) with plastic sleeves, specially for sensitive alloy wheels.



STAHLWILLE's range of bits – uncompromisingly attractive. Reliable screwdriver inserts and adaptors in individual sizes or as sets for power screwdrivers or manual use.



No. 4008/27/1

- Slotted**
- Internal serration XZN®**
- Internal hex**
- POZIDRIV® SUPADRIV®**
- Phillips®**
- Internal TORX®**
- Internal TORX® with hollow point**
- TRI-WING®**
- TORQ-SET®**
- 5-star with hollow point**
- POZIDRIV® Phillips®**



No. 1201

The bit that fits – always

■ That is why STAHLWILLE offers such a range of bits for flat-bladed, Phillips, POZIDRIV/SUPADRIV®, internal TORX®, internal serration, internal hex drive, TRI-WING®, TORQ-SET® screws and recessed 5-star screws with a central pin – if required, also available in sets with corresponding tightening tools e.g. anticlockwise and clockwise ratcheting bit-holder. High-grade special steel alloys and special hardening processes guarantee optimum torquing and long service lifetimes.



BITS screwdriver inserts from STAHLWILLE guarantee minimum transmission losses.



STAHLWILLE bits are also suitable for use with heavy-duty power screwdrivers.



e.g. bit holder No. 4007 for BITS screwdriver inserts with external 1/4" hex

Get a grip on it: sturdy bit-holders and ratchets etc.

■ STAHLWILLE bits are, of course, also suitable for manual use, e.g. in conjunction with the corresponding bit-holders, ratchets, magazine holders, switchable ratchets and TORSIOMAX torque screwdrivers.



e.g. ratchet No. 415SGB with 1/4" internal hex drive, switchable

IMPACT sockets and accessory tools for power drivers



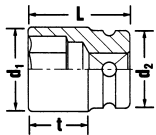
Thin Walled – yet exceptionally strong.

All STAHLWILLE IMPACT sockets, made from high quality Chrome Vanadium Steel. Heat treated and oil quenched to avoid stresses, distortions and to maintain very close tolerances. Dimensional accuracy ensures minimal power transmission losses and drastically increases durability.

4

40IMP ○ IMPACT sockets

1/4" ○-drive, DIN 3129/ISO 2725-2, for power drivers, Chrome Alloy Steel, gunmetal finish.



Code	mm	d ₁ mm	d ₂ mm	L mm	t mm	g	
21010055	5.5	9.1	13	25	17	16	10
21010006	6	9.8	13	25	17	17	10
21010007	7	11	13	25	17	17	10
21010008	8	12.2	13	25	17	17	10
21010010	10	15	13	25	16.5	18	10

2108TX ○ IMPACT sockets

1/4" ○-drive, external TORX®, for power drivers, Chrome Alloy Steel, gunmetal finish.

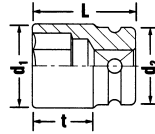


Code	size	mm	d ₁ mm	d ₂ mm	L mm	g	
21080004	E4*	3.8	5.6	13	25	12	10
21080005	E5*	4.7	6.7	13	25	12	10
21080006	E6	5.7	8	13	25	13	10
21080007	E7	6.2	9.6	13	25	14	10
21080008	E8	7.5	10.5	13	25	15	10
21080010	E10	9.4	13	13	25	18	10

* to be discontinued

45IMP ○ IMPACT sockets

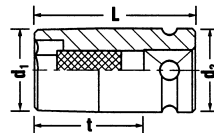
3/8" ○-drive, DIN 3129/ISO 2725-2, for power drivers, Chrome Alloy Steel, gunmetal finish.



Code	mm	d ₁ mm	d ₂ mm	L mm	t mm	g	
22010007	7	11.8	19	28	16.5	32	10
22010008	8	13	19	28	16.5	37	10
22010009	9	14.2	19	28	16.5	31	10
22010010	10	15.5	19	28	16.5	38	10
22010011	11	16.7	19	28	16.5	49	10
22010012	12	18	19	28	16.5	35	10
22010013	13	19.4	22	32	20	59	10
22010014	14	20.7	22	32	19.5	56	10
22010015	15	22	22	32	19.5	54	10
22010016	16	23.4	22	32	19.5	57	10
22010017	17	24.9	22	32	19.5	61	10
22010018	18	26.3	22	32	19.5	79	10
22010019	19	27.7	22	32	19.5	67	10

45M ○ IMPACT sockets

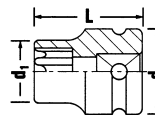
3/8" ○-drive, DIN 3129/ISO 2725-2, for power drivers, with powerful permanent magnet, extra hard for self tapping and other hardened screws, Chrome Alloy Steel, gunmetal finish.



Code	mm	d ₁ mm	d ₂ mm	L mm	t mm	g	
22040008	8	13	19	34	3.5	53	10
22040010	10	15.5	19	34	4.2	54	10

2208TX ○ IMPACT sockets

3/8" ○-drive, external TORX®, for power drivers, Chrome Alloy Steel, gunmetal finish.

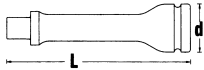


Code	size	mm	d ₁ mm	d ₂ mm	L mm	g	
22080005	E5	4.7	8	19	28	28	10
22080006	E6	5.7	9	19	28	29	10
22080007	E7	6.2	10	19	28	29	10
22080008	E8	7.5	11.5	19	28	32	10
22080010	E10	9.4	14	19	28	34	10
22080012	E12	11.1	15.9	19	28	35	10
22080014	E14	12.9	17.7	19	28	36	10

Accessory tools for **IMPACT** sockets

3/8" -square drive
outside E 10, inside G 10
Finish: Chrome Alloy Steel, gunmetal finish

Extensions



Code	No	L mm	d mm	$\Delta\Delta$ g	
32010001	427/3IMP	78	22	95	5
32010002	427/6IMP	152	22	162	5

428IMP Universal joint



Code	L mm	d mm	$\Delta\Delta$ g	
32020000	51.7	22	77	5

Adaptors



Code	No	inside "	outside "	L mm	d mm	$\Delta\Delta$ g	
32030001	431IMP	3/8	1/4	28	22	47	5
32030003	432IMP	3/8	1/2	35.5	22	63	5

Rubber rings

for sockets and accessories.

Code	No	$\Delta\Delta$ g	
39011335	4591/1IMP ¹⁾	1	10
39011635	4591/2IMP ²⁾	1	10

¹⁾ for Socket sizes 6–12 mm, TORX® size E5–E14

²⁾ for Socket sizes 13–19 mm and accessories

Connecting pins

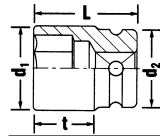
Code	No	$\Delta\Delta$ g	
39021425	4592/1IMP ¹⁾	1	10
39021625	4592/2IMP ²⁾	1	10

¹⁾ for Socket sizes 6–12 mm, TORX® size E5–E14

²⁾ for Socket sizes 13–19 mm and accessories

50IMP IMPACT sockets

1/2" -drive, DIN 3129/ISO 2725-2, for power drivers,
Chrome Alloy Steel, gunmetal finish.



Code	 mm	d ₁ mm	d ₂ mm	L mm	t mm	$\Delta\Delta$ g	
23010008	8	14.3	25	38	21.5	87	10
23010010	10	16.8	25	38	21.5	89	10
23010011	11	18.1	25	38	21.5	88	10
23010012	12	19.5	25	38	21.5	90	10
23010013	13	20.8	25	38	21.5	85	10
23010014	14	22.1	25	38	21.5	86	10
23010015	15	23.5	30	38	21.5	132	10
23010016	16	24.8	30	38	21	130	10
23010017	17	26.2	30	38	21	132	10
23110017	R17 ¹⁾*	30	30	38	21	142	10
23010018	18	27.5	30	38	20.5	130	10
23010019	19	28.8	30	40	22.5	133	10
23110019	R19 ¹⁾*	32.8	30	42	24.5	130	10
23010020	20	30	30	40	22	169	10
23010021	21	31.3	30	40	21.5	135	10
23010022	22	32.5	30	42	21.5	141	10
23010023	23	33.8	30	45	21.5	145	5
23010024	24	35	30	45	25	164	5
23010025	25	36.3	30	45	25	173	5
23010026	26	37.6	30	50	24.5	178	5
23010027	27	38.8	30	50	25	190	5

¹⁾ R17 and R19 Heavy duty for wheel nuts, bored out to accept bolt protrusion and dome nuts etc.

* to be discontinued

50IMP/6/2 IMPACT-Set

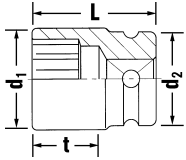
8 pieces
Content:
6 Sockets No 50IMP sizes 13; 17;
19; 21; 22; 24 mm,
1 Extension No 509/5IMP,
1 Universal Joint No 510IMP
for power drivers




Code	$\Delta\Delta$ g
96230101	1800

50D IMP  **IMPACT sockets**

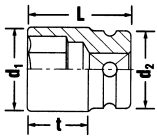
1/2" O-drive, ISO 2725-2, for power drivers, for use with bi-hexagon screws, Chrome Alloy Steel, gunmetal finish.




Code	O mm	d ₁ mm	d ₂ mm	L mm	t mm	ΔΔ g	
23030012	12	19.5	25	38	22	85	10
23030013	13	20.8	25	38	22	90	10
23030014	14	22.1	25	38	22	86	10
23030015	15	23.5	30	38	22	132	10
23030016	16	24.8	30	38	21.5	130	10
23030017	17	26.2	30	38	21.5	132	10
23030018	18	27.5	30	38	21	130	10
23030019	19	28.8	30	40	22.5	133	10
23030021	21	31.3	30	40	23.5	135	10
23030022	22	32.5	30	40	23	141	10


51IMP  **IMPACT sockets**

1/2" O-drive, for power drivers, extra deep, Chrome Alloy Steel, gunmetal finish.



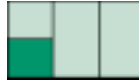
Code	O mm	d ₁ mm	d ₂ mm	L mm	t mm	ΔΔ g	
23020013	13	20.8	25	85	68.5	222	5
23020015	15	23.5	30	85	68	360	5
23020016	16	24.8	30	85	68	338	5
23020017	17	26.2	30	85	68	318	5
23020018	18	27.5	30	85	68	309	5
23020019	19	28.8	30	85	67.5	292	5
23020021	21	31.3	30	85	66.5	291	5
23020022	22	32.5	30	85	66.5	323	5
23020024	24	35	30	85	66	335	5
23020027	27	38.8	30	85	65	385	5

51aIMP*  **IMPACT sockets**


Code	O mm	d ₁ mm	d ₂ mm	L mm	t mm	ΔΔ g	
23420042	19/16 - 20.8 ¹⁾	31.3	30	85	66.5	290	5

¹⁾ use on wheel nuts of Japanese cars.
* to be discontinued

ES 51IMP/4*



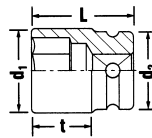
175 x 175 x 40 mm, 4 pieces


Code	ΔΔ g
96838161	1280
 No 51IMP	1/2" O sizes 17; 19; 20.8 mm- ^{13/16"} ; 22 mm
83 81 20 80 Empty tray	55

* to be discontinued

2309  **IMPACT sockets**

1/2" O-drive, for power drivers, extra deep, with reduced outside diameter, Chrome Alloy Steel, gunmetal finish.




Code	O mm	d ₁ mm	d ₂ mm	L mm	t mm	ΔΔ g	
23090017	17	25.7	30	85	68	242	5
23090019	19	28.2	30	85	67.5	257	5
23090208	20.8	30.7	30	85	66.5	272	5
23090022	22	32	30	85	66.5	311	5

for wheel nuts

ES 2309/4



175 x 175 x 40 mm, 4 pieces

Code	ΔΔ g
96838162	1145
 No 2309	1/2" O sizes 17; 19; 20.8 mm- ^{13/16"} ; 22 mm
83 81 20 80 Empty tray	55

2309K Wheel nut socket

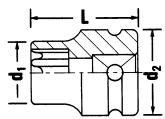
1/2" -drive, with plastic sleeve.
Sleeve extension protects not only wheel bolts and nuts but also the wheel and holes.



Code	mm	L mm	∅ mm	⚖ g	📦
2309 10 17	17	87	32	242	1
2309 10 19	19	87	32	250	1
2309 12 08	20.8	87	32	265	1

2308TX IMPACT sockets

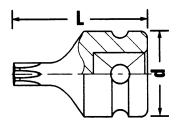
1/2" -drive, external TORX®, for power drivers, Chrome Alloy Steel, gunmetal finish.



Code	size	mm	d ₁ mm	d ₂ mm	L mm	⚖ g	📦
2308 00 10	E10	9.4	14	25	38	67	10
2308 00 12	E12	11.1	15.9	25	38	73	10
2308 00 14	E14	12.9	17.7	25	38	73	10
2308 00 16	E16	14.7	20	25	38	77	10
2308 00 18	E18	16.6	22	30	38	115	10
2308 00 20	E20	18.4	24.5	30	38	120	10
2308 00 24	E24	22.1	30	30	41.2	149	10

2307TX IMPACT sockets

1/2" -drive, inside TORX®, for power drivers, Chrome Alloy Steel, gunmetal finish.



Code	size	mm	d mm	L mm	⚖ g	📦
2307 00 30	T30	5.5	25	40	57	5
2307 00 40	T40	6.6	25	40	58	5
2307 00 45	T45	7.8	25	40	59	5
2307 00 50	T50	8.8	25	40	57	5
2307 00 55	T55	11.2	25	40	61	5
2307 00 60	T60	13.2	25	40	66	5

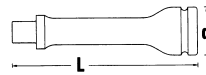
Accessory tools for IMPACT sockets,

1/2" square drive

outside E 12.5, inside G 12.5

Finish: Chrome Alloy Steel, gunmetal finish

Extensions



Code	No	L mm	d mm	⚖ g	📦
3301 00 01	509/2IMP	52	30	151	5
3301 00 02	509/5IMP	130	30	271	5
3301 00 03	509/10IMP	255	30	452	5

510IMP Universal joint



Code	L mm	d mm	⚖ g	📦
3302 00 00	68	30	210	5

Adaptors



Code	No	inside "	outside "	L mm	d mm	⚖ g	📦
3303 00 02	513IMP	1/2	3/8	37	30	109	5
3303 00 05	514IMP	1/2	3/4	49	30	174	5

Rubber rings

Code	No	⚖ g	📦
3901 19 40	5091/1IMP ¹⁾	1	10
3901 24 40	5091/2IMP ²⁾	1	10

¹⁾ for Socket sizes 8–14 mm and 7/16–1/2", TORX® size E10–E16, size T30–T60

²⁾ for Socket sizes 15–27 mm and 5/8–1 1/4", TORX® size E18–E24 and accessories

Connecting pins

Code	No	⚖ g	📦
3902 20 30	5092/1IMP ¹⁾	1	10
3902 25 30	5092/2IMP ²⁾	2	10

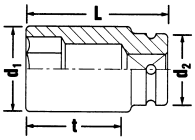
¹⁾ for Socket sizes 8–14 mm and 7/16–1/2", TORX® size E10–E16, size T30–T60


²⁾ for Socket sizes 15–27 mm and 5/8–1 1/4", TORX® size E18–E24 and accessories



55IMP  **IMPACT sockets**

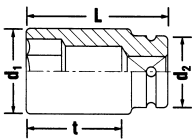
3/4" O-drive DIN 3129/ISO 2725-2, for power drivers, Chrome Alloy Steel, gunmetal finish.




Code	O- mm	d ₁ mm	d ₂ mm	L mm	t mm	Δ g	
25010017	17	29	44	48	23	365	5
25010018	18	30.5	44	48	23	345	5
25010019	19	32	44	48	23	359	5
25010021	21	35	44	50	25	375	5
25010022	22	36.5	44	50	25	377	5
25010024	24	39.5	44	50	24.5	382	5
25010027	27	43.5	44	51	24.5	387	5
25010028	28	45	44	54	27	417	5
25010029	29	46	44	54	26.5	425	5
25010030	30	47.4	44	54	26.5	438	2
25010032	32	49.9	44	54	26	456	2
25010033	33	51.5	44	54	25.5	477	2
25010034	34	52.4	44	54	29	490	2
25010036	36	54.9	44	57	32	545	2
25010038	38	58	44	58	33	592	2

56IMP  **IMPACT sockets**

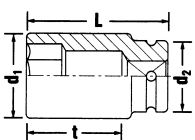
3/4" O-drive, for power drivers, extra deep, Chrome Alloy Steel, gunmetal finish.




Code	O- mm	d ₁ mm	d ₂ mm	L mm	t mm	Δ g	
25020021	21	35	44	100	75	864	2
25020022	22	36.5	44	100	75	854	2
25020024	24	39.5	44	100	74.5	838	2
25020027	27	43.5	44	100	72.5	800	2
25020028	28	45	44	100	72.5	808	2
25020030	30	47.4	44	100	72.5	860	2
25020032	32	49.9	44	100	72	922	2
25020033	33	51.5	44	100	72	912	2
25020034	34	52.4	44	100	71.5	983	2
25020036	36	54.9	44	100	71	1038	2



2509  **IMPACT sockets**

3/4" O-drive, for power drivers, extra deep, with reduced diameter, Chrome Alloy Steel, gunmetal finish.

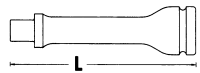



Code	O- mm	d ₁ mm	d ₂ mm	L mm	t mm	Δ g	
25090027	27	40.5	44	100	72.5	672	2
25090030	30	44.3	44	100	72.5	728	2
25090032	32	46.8	44	100	72	778	2
25090033	33	48	44	100	72	803	2

for Trilux wheels

Accessory tools for IMPACT sockets,
3/4" O square drive
outside  F 20, inside  H 20
Finish: Chrome Alloy Steel, gunmetal finish


Extensions



Code	No	L mm	d mm	Δ g	
35010001	560/7IMP	180	44	805	5
35010002	560/10IMP	250	44	1051	5
35010003	560/13IMP	330	44	1305	5


561IMP **Universal joint**



Code	L mm	d mm	Δ g	
35020000	99	44	657	2

Adaptors



Code	No	inside O "	outside ■ "	L mm	d mm	Δ g	
35030003	568IMP	3/4	1/2	56	44	335	5
35030006	569IMP	3/4	1	65	44	477	5

5591IMP **Rubber ring**

Code	g	
39013650	3	10

for sockets and accessories

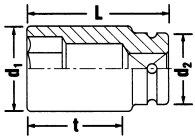
5592IMP **Connecting pin**

Code	g	
39023540	3	10

for sockets and accessories

60IMP ○ IMPACT sockets

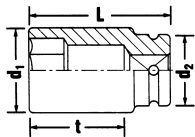
1" ○-drive, DIN 3129/ISO 2725-2, for power drivers, Chrome Alloy Steel, gunmetal finish.



Code	mm	d ₁ mm	d ₂ mm	L mm	t mm	Δg	g	
26010024	24	41.5	54	58	28	638	2	
26010027	27	45	54	60	30	654	2	
26010030	30	49	54	62	32	688	2	
26010032	32	51.5	54	63	32	694	2	
26010033	33	52.5	54	63	31.5	692	2	
26010036	36	56.5	54	67	34.5	754	2	
26010038	38	59	54	70	37	836	2	
26010041	41	63	54	70	36.5	892	2	
26010042	42	64.5	54	73	39	970	1	
26010046	46	69.5	54	76	41	1106	1	
26010050	50	74.5	54	82	52	1362	1	
26010055	55	81	54	87	57	1669	1	
26010060	60	87	54	91	61	1960	1	

66IMP ○ IMPACT sockets

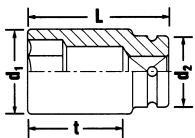
1" ○-drive, for power drivers, extra deep, Chrome Alloy Steel, gunmetal finish.



Code	mm	d ₁ mm	d ₂ mm	L mm	t mm	Δg	g	
26020024	24	41.5	54	110	80	1431	2	
26020027	27	45	54	110	80	1393	2	
26020030	30	49	54	110	79.5	1338	2	
26020032	32	51.5	54	110	79	1296	2	
26020033	33	52.5	54	110	78.5	1274	2	
26020036	36	56.5	54	110	78	1312	2	
26020038	38	59	54	110	77	1355	2	
26020041	41	63	54	110	76	1504	2	
26020046	46	69.5	54	110	72	1711	2	

2609 ○ IMPACT sockets

1" ○-drive, for power drivers, extra deep, with reduced outside diameter, Chrome Alloy Steel, gunmetal finish.



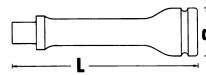
Code	mm	d ₁ mm	d ₂ mm	L mm	t mm	Δg	g	
26090027	27	42.3	54	110	80	1001	2	
26090030	30	46	54	110	79.5	1047	2	
26090032	32	48.5	54	110	79	1015	2	
26090033	33	49.8	54	110	78.5	1102	2	

for wheel nuts

Accessory tools for IMPACT sockets, 1" ○ square drive

outside ■ F 25, inside ○ H 25
Finish: Chrome Alloy Steel, gunmetal finish

Extensions



Code	No	L mm	d mm	Δg	g	
36010001	859/7IMP	180	54	1361	2	
36010002	859/13IMP	330	54	2168	2	

871IMP Universal joint



Code	L mm	d mm	Δg	g	
36020000	125	54	1244	1	

Adaptors

1"; 1 1/2"



Code	No	inside ○ "	outside ■ "	L mm	d mm	Δg	g	
36030005	866IMP	1	3/4	70	54	565	2	
36030006	867IMP ¹⁾	1 1/2	1	90	86	2100	1	

¹⁾ also for Multipower No STW 393N (page 191)

6091IMP Rubber ring

Code	g	
39014850	8	10

for sockets and accessories

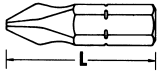
6092IMP Connecting pin

Code	g	
39025050	7	10

for sockets and accessories

⊕ BITS

DIN 3128, for Phillips screws.



Code	No	Phillips-Recess®	outside	"	L	△△	g	⊞
			●		mm			
08000000	1218	000	C 4	-	28	3	5	
08000001	1219	00	C 4	-	28	3	5	
08010000	1220	0	C 6.3	1/4	25	5	10	
08010001	1221	1	C 6.3	1/4	25	5	10	
08010002	1222	2	C 6.3	1/4	25	5	10	
08010003	1223	3	C 6.3	1/4	25	5	10	
08013802	1222x15*	2	C 6.3	1/4	38	8	10	
08030001	1231	1	C 8	5/16	32	9	10	
08030002	1232	2	C 8	5/16	32	10	10	
08030003	1233	3	C 8	5/16	32	10	10	
08030004	1234	4	C 8	5/16	32	12	10	

outside ● DIN 3126/ISO 1173

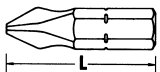
Phillips-Recess® DIN 5260

extra hard for self tapping and other hardened screws.

* to be discontinued

⊕ BITS

DIN 3128, for Phillips screws.



Code	No	Phillips-Recess®	outside	"	L	△△	g	⊞
			●		mm			
08020001	1221AA	1	C 6.3	1/4	25	5	10	
08020002	1222AA	2	C 6.3	1/4	25	5	10	
08020003	1223AA	3	C 6.3	1/4	25	5	10	

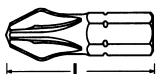
outside ● DIN 3126/ISO 1173

Phillips-Recess® DIN 5260

for wood screws, mild steel screws etc.

⊕ BITS

for POZIDRIV/SUPADRIV® screws, extra hard.

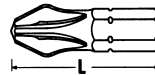


Code	No	POZIDRIV/SUPADRIV®	outside	"	L	△△	g	⊞
			●		mm			
08050001	PZ1221	1	C 6.3	1/4	25	5	10	
08050002	PZ1222	2	C 6.3	1/4	25	5	10	
08050003	PZ1223	3	C 6.3	1/4	25	6	10	

outside ● DIN 3126/ISO 1173

⊕⊕ TwinBITS

with special profiles for recessed-head screws (PH) and POZIDRIV/SUPADRIV® screws (PZ), high resistance to wear due to coating with hard material.



Code	No	outside size	outside	"	L	△△	g	⊞
			●		mm			
08011001	PH/PZ1221	1	C 6.3	1/4	25	5	10	
08011002	PH/PZ1222	2	C 6.3	1/4	25	5	10	
08011003	PH/PZ1223	3	C 6.3	1/4	25	5	10	

outside ● DIN 3126/ISO 1173

1203/7 TwinBITS set

Storage facility for BITS screwdriver inserts.

Content:

1 quick-change holder No 3825/1 for BITS screwdriver inserts

⊕⊕ 6 TwinBITS screwdriver inserts

with special profile for recessed-head screws (PH) and

POZIDRIV/SUPADRIV® screws (PZ)

2 x size 1; 3 x size 2; 1 x size 3



Code	△△	g	⊞
96080112	97		1

⊖ BITS screwdrivers

DIN 3127/ISO 2351, for slotted screws.



Code	No	a x b	outside	"	L	△△	g	⊞
		mm	●		mm			
08070017	1157	0.25 x 1.5	C 4	-	28	3	5	
08070018	1158	0.4 x 2.0	C 4	-	28	3	5	
08070019	1159	0.4 x 2.5	C 4	-	28	3	5	
08070020	1160	0.5 x 3.0	C 6.3	1/4	39	5	10	
08070021	1161	0.5 x 4.0	C 6.3	1/4	39	6	10	
08070022	1162	0.6 x 3.5	C 6.3	1/4	39	6	10	
08070023	1163	0.6 x 4.5	C 6.3	1/4	39	6	10	
08070024	1164	0.8 x 4.0	C 6.3	1/4	39	6	10	
08070025	1165	0.8 x 5.5	C 6.3	1/4	39	7	10	
08070026	1166	1.0 x 5.5	C 6.3	1/4	39	8	10	
08070030	1166/1	1.2 x 6.5	C 6.3	1/4	39	9	10	
08070027	1167	1.2 x 8.0	C 6.3	1/4	39	12	10	
08070028	1168	1.6 x 8.0	C 6.3	1/4	39	12	10	
08070029	1169	1.6 x 10.0	C 6.3	1/4	39	16	10	
08080030	1180	0.8 x 5.5	C 8	5/16	41	10	10	
08080031	1181	1.0 x 5.5	C 8	5/16	41	11	10	
08080032	1182	1.2 x 6.5	C 8	5/16	41	13	10	
08080033	1183	1.2 x 8.0	C 8	5/16	41	15	10	
08080034	1184	1.6 x 8.0	C 8	5/16	41	15	10	
08080035	1185	1.6 x 10.0	C 8	5/16	41	19	10	
08080036	1186	2.0 x 12.0	C 8	5/16	41	24	10	

outside ● DIN 3126/ISO 1173

BITS

for tri-square socket head screws (XZN®).



Code	No	size	outside ●	"	L mm	Δ g	☐
08 20 00 04	1350	M4	C 6.3	1/4	25	4	10
08 20 00 10	1356	M5	C 6.3	1/4	25	5	10
08 20 00 11	1357	M6	C 6.3	1/4	25	5	10
08 20 00 12	1358	M8	C 8	5/16	28	10	10
08 20 00 13	1359	M10	C 8	5/16	38	15	10
08 20 00 14	1360	M12	C 8	5/16	38	20	10

outside ● DIN 3126/ISO 1173

DIN 65254 (M4, M5, M6)

Application: No 1350, size M4, for door lock attachment on the Audi TT, VW Golf, Bora, Passat B5, Lupo, New Beetle

BITS

for inside TORX® screws



Code	No	size	mm	outside ●	"	L mm	Δ g	☐
08 13 00 03	1407	T 3	1.1	C 4	-	28	3	5
08 13 00 04	1408	T 4	1.3	C 4	-	28	3	5
08 13 00 05	1409	T 5	1.3	C 4	-	28	3	5
08 13 00 06	1410	T 6	1.6	C 6.3	1/4	26	5	10
08 13 00 07	1411	T 7	2.0	C 6.3	1/4	26	5	10
08 13 00 08	1412	T 8	2.3	C 6.3	1/4	26	5	10
08 13 00 09	1413	T 9	2.5	C 6.3	1/4	26	5	10
08 13 00 10	1414	T 10	2.7	C 6.3	1/4	26	5	10
08 13 00 15	1415	T 15	3.3	C 6.3	1/4	26	5	10
08 13 00 20	1416	T 20	3.8	C 6.3	1/4	26	5	10
08 13 00 25	1417	T 25	4.4	C 6.3	1/4	26	6	10
08 13 00 27	1418	T 27	5.0	C 6.3	1/4	26	6	10
08 13 00 30	1419	T 30	5.5	C 6.3	1/4	26	6	10
08 13 00 40	1420	T 40	6.6	C 6.3	1/4	26	7	10
08 13 00 45	1421	T 45	7.8	C 6.3	1/4	26	8	10
08 14 00 27	1430	T 27	5.0	C 8	5/16	35	11	10
08 14 00 30	1431	T 30	5.5	C 8	5/16	35	11	10
08 14 00 40	1432	T 40	6.6	C 8	5/16	35	12	10
08 14 00 45	1433	T 45	7.8	C 8	5/16	35	14	10
08 14 00 50	1434	T 50	8.8	C 8	5/16	35	14	10

outside ● DIN 3126/ISO 1173

Application: No 1416, size T20, for the door handle attachment for DaimlerChrysler types 168 and 203

No 1421, size T45, for removing and refitting the front doors on the Golf III and Vento from model year 93 on

1427 BITS

for inside TORX® screws.



Code	size	outside ●	"	L mm	Δ g	☐
08 13 10 25	T 25	C 6.3	1/4	65	18	1

For BMW series 3 and 5

outside ● DIN 3126/ISO 1173

BITS

with hollow point for inside TORX® screws (TORX® TAMPER RESISTANT).

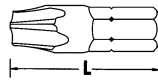


Code	No	size	mm	outside ●	"	L mm	Δ g	☐
08 16 00 10	1440	T 10	2.7	C 6.3	1/4	26	6	10
08 16 00 15	1441	T 15	3.3	C 6.3	1/4	26	6	10
08 16 00 20	1442	T 20	3.8	C 6.3	1/4	26	6	10
08 16 00 25	1443	T 25	4.4	C 6.3	1/4	26	6	10
08 16 00 27	1444	T 27	5.0	C 6.3	1/4	26	6	10
08 16 00 30	1445	T 30	5.5	C 6.3	1/4	26	6	10
08 16 00 40	1446	T 40	6.6	C 6.3	1/4	26	6	10

outside ● DIN 3126/ISO 1173

5-star BITS

with hollow point, for female 5-star screws with a centring pin.



Code	No	outside ●	"	L mm	Δ g	☐
08 16 10 10	1440 TPI 10	C 6.3	1/4	26	6	5
08 16 10 15	1441 TPI 15	C 6.3	1/4	26	6	5
08 16 10 20	1442 TPI 20	C 6.3	1/4	26	6	5
08 16 10 25	1443 TPI 25	C 6.3	1/4	26	6	5
08 16 10 27	1444 TPI 27	C 6.3	1/4	26	6	5
08 16 10 30	1445 TPI 30	C 6.3	1/4	26	6	5
08 16 10 40	1446 TPI 40	C 6.3	1/4	26	6	5

outside ● DIN 3126/ISO 1173

1204/8 5-star BITS set

Storage facility for BITS screwdriver inserts.

Content:

1 bit-holder No 412

7 BITS screwdriver inserts for female 5-star screws with centring pin, sizes TPI 10, 15, 20, 25, 27, 30, 40.



Code	Δ g	☐
96 08 01 13	87	1

● BITS

DIN 7426/ISO 3109,
for socket head screws, extra hard.



Code	No	mm	outside mm	"	L mm	△△ g	📦
08090003	1300	3	C 6.3	1/4	25	4	10
08090004	1301	4	C 6.3	1/4	25	5	10
08090005	1302	5	C 6.3	1/4	25	5	10
08090006	1303	6	C 6.3	1/4	25	6	10
08090008	1304	8	C 6.3	1/4	30	11	10

outside ● DIN 3126/ISO 1173

1299 ● BITS

for inside hexagon screws, for
operating the adjusting screws on
torque wrenches No 720, 721, 730
and 730N.



Code	mm	outside mm	"	L mm	△△ g	📦
08090002	2	C 6.3	1/4	34	4	10

outside ● DIN 3126/ISO 1173

1201 BITS box

Storage box with
screwdriver bits.

Content:

- 1 magnetic bit-holder
- ⊕ 3 Bits, sizes 1; 2; 3 for Phillips screws
- ⊕ 3 Bits, sizes 1; 2; 3 for POZIDRIV/SUPADRIV® screws
- ⊖ 3 Bits, sizes 0.6 x 4.5; 0.8 x 5.5; 1.2 x 6.5 mm; for slotted screws
- 6 Bits, size T10; size T15; size T20; size T25; size T30; size T40; for inside TORX® screws (TORX® TAMPER RESISTANT)
- 3 Bits, sizes 4; 5; 6 mm; for inside hexagon screws



Code	△△ g	📦
96080102	195	1

13008 ● BITS screwdrivers

for TRI-WING® screws



Code	TRI-WING®	outside mm	"	L mm	△△ g	📦
08250000	0	C 6.3	1/4	25	5	10
08250001	1	C 6.3	1/4	25	5	10
08250002	2	C 6.3	1/4	25	5	10
08250003	3	C 6.3	1/4	25	5	10
08250004	4	C 6.3	1/4	25	5	10
08250005	5	C 6.3	1/4	25	5	10
08250006	6	C 6.3	1/4	25	8	10

outside ● DIN 3126/ISO 1173

13010 ● BITS screwdrivers

for TORQ-SET® screws.

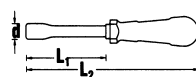


Code	TORQ-SET®	outside mm	"	L mm	△△ g	📦
08260000	0	C 6.3	1/4	25	5	10
08260001	1	C 6.3	1/4	25	5	10
08260002	2	C 6.3	1/4	25	5	10
08260003	3	C 6.3	1/4	25	5	10
08260004	4	C 6.3	1/4	25	5	10
08260005	5	C 6.3	1/4	25	5	10
08260006	6	C 6.3	1/4	25	5	10
08260008	8	C 6.3	1/4	25	5	10
08260010	10	C 6.3	1/4	25	5	10
08260016	1/4 A	C 8	5/16	32	11	10
08260020	5/16 A	C 8	5/16	32	11	10
08260024	3/8 A	C 8	5/16	32	11	10

outside ● DIN 3126/ISO 1173

Spinner handles

for BITS screwdriver bits with outside hexagon 1/4" or 5/16" DIN 3126/ISO 1173 Form C 6.3 or C 8, handle of impact proof plastic. Internal hex drive with a collar-thrust spring (registered design). Bits are easy to insert, lock securely in position and can be removed just as easily; even hex bits with a wide groove (Type E, DIN 3126/ISO 1173).



Code	No	inside mm	"	d mm	L ₁ mm	L ₂ mm	△△ g	📦
18070026	4000	D 6.3	1/4	11	75	180	103	5
18070030	4005	D 8	5/16	13	85	190	111	5

inside ○ DIN 3126/ISO 1173

4006/1 Spinner with magazine holder

for 6 BITS screwdriver bits (25 mm)
with 1/4" outer hexagon,
DIN 3126/ISO 1173 Type C 6.3,
transparent plastic handle
for storing BITS with rotating
selection cap,
internal hexagon
and powerful
permanent magnet.



Code	inside mm	"	d mm	L ₁ mm	L ₂ mm	△△ g	📦
18080017	D 6.3	1/4	10	120	230	124	1

inside ○ DIN 3126/ISO 1173

12504 BIT holder

for BITS screwdriver bits
with outside hexagon 1/4"
DIN 3126/ISO 1173 Form C 6.3,
flexible shaft,
handle of impact proof plastic.



Code	inside mm	"	L ₁ mm	L ₂ mm	△△ g	📦
18100016	D 6.3	1/4	150	260	109	10

inside ○ DIN 3126/ISO 1173

12503 BIT holder

for BITS screwdriver bits with outside hexagon 1/4" DIN 3126/ISO 1173 Form C 6.3, inside hexagon with magnet, stubby version, handle of impact proof plastic.



Code	inside O	"	L ₁ mm	L ₂ mm	g	
18 1100 16	D 6.3	1/4	10	65	46	10

inside O DIN 3126/ISO 1173

4007 BIT holder

for BITS screwdriver bits with outside hexagon 1/4" DIN 3126/ISO 1173 Form C 6.3, inside hexagon with magnet, with T-handle.



Code	inside O	"	d mm	L ₁ mm	L ₂ mm	g	
180900 16	D 6.3	1/4	10	200	165	108	5

inside O DIN 3126/ISO 1173

415SGB Ratchet

reversible, all steel handle, for BITS screwdrivers with outside hexagon 1/4" DIN 3126/ISO 1173 Form C 6.3 (22 teeth).



Internal hex drive with a collar-thrust spring (registered design). Bits are easy to insert, lock securely in position and can be removed just as easily; even hex bits with a wide groove (Type E, DIN 3126/ISO 1173).

Code	inside O	"	L mm	g	
11 1300 11	D 6.3	1/4	117	85	5

inside O DIN 3126/ISO 1173

435B Ratchet

reversible, for BITS screwdrivers with outside hexagon 5/16" DIN 3126/ISO 1173 Form C 8 (30 teeth).



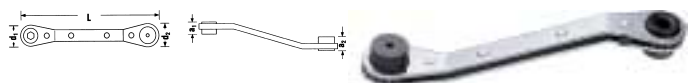
Internal hex drive with a collar-thrust spring (registered design). Bits are easy to insert, lock securely in position and can be removed just as easily; even hex bits with a wide groove (Type E, DIN 3126/ISO 1173).

Code	inside O	"	L mm	g	
12 1300 11	D 8	5/16	193	220	1

inside O DIN 3126/ISO 1173

25B Ratcheting bit holder

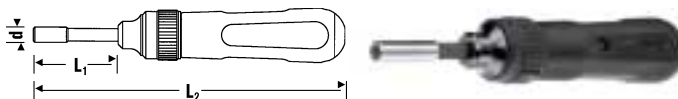
for hexagon bits, magnetic location, reversible heads angled, chrome plated.



Code	inside O	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	g	
41 54 16 20	1/4 x 5/16		138	20	23	15	17	105	1

4008 Ratcheting bit holder

Positions selectable are clockwise/counter clockwise/fix with fixed blade. Inner hex. with magnet, for screwdriver bits with outside hexagon 1/4" DIN 3126/ISO 1173 Form C 6.3. The square drive extension No 3115/1 can be used to adapt 1/4" socket inserts (outer hex. to 1/4" outer square). The ratcheting bit holder is fitted with a quick-twist knurled socket to allow the user to tighten or untighten loosely by hand. Socket mountings are toothed, heavy-duty and angled at 30°. Ergonomically shaped handle with 1/4" inner square drive for use with cross handle, extension bar etc.



Code	inside O	"	L ₁ mm	L ₂ mm	d mm	g	
18 1200 00	D 6.3	1/4	56	206.5	10	185	8

inside O DIN 3126/ISO 1173

4008/18 Ratcheting bit holder set

19 pieces.

Content:

- 1 Ratcheting bit holder No 4008
- 3 Bits ⊕ 1221; 1222; 1223
- 3 Bits ⊕ PZ1221; PZ1222; PZ1223
- 6 Bits ⊕ 1440 T10; 1441 T15; 1442 T20; 1443 T25; 1444 T30; 1446 T40
- 3 Bits ● 1301; 1302; 1303
- 3 Bits ⊖ 1163 0.6 x 4.5; 1165 0.8 x 5.5; 1166/1 1.2 x 6.5 mm



Code	g	
96 18 1200	785	1

4008/27/1 Ratcheting bit holder set

29 pieces.

Content:

- 1 Ratcheting bit holder No 4008
- 3 Bits ⊕ 1221; 1222; 1223
- 3 Bits ⊕ PZ 1221; PZ 1222; PZ 1223
- 6 Bits ⊕ 1440 T10; 1441 T15; 1442 T20; 1443 T25; 1445 T30; 1446 T40
- 3 Bits ● 1301; 1302; 1303
- 3 Bits ⊖ 1163 0.6 x 4.5; 1165 0.8 x 5.5; 1166/1 1.2 x 6.5 mm
- 1 Square drive extension No 3115/1 with 1/4" outer hex. and outer square drives for attaching 1/4" □ sockets
- 9 Sockets No 40, 1/4" □ sizes 4; 5; 5.5; 6; 7; 8; 10; 11; 13 mm



Code	g	
96 18 1202	1025	1

3115/2 BIT holder

for torque screwdrivers
No 760 and No 775,
inside hexagon DIN 3126 D4
for BITS screwdriver bits Type C4,
outside hexagon 1/4"
DIN 3126/ISO 1173 Form E 6.3.



Code	inside ○	outside ●	"	L mm	△△ g	☐
31150003	4 mm	E 6.3	1/4	60	18	1

outside ● DIN 3126/ISO 1173

1200/1 BIT holder

with permanent magnet
1/4" inside and outside hexagon
1/4" DIN 3126/ISO 1173
Form C 6.3.



Code	inside ○	"	outside ●	"	L mm	△△ g	☐
38120001	D 6.3	1/4	E 6.3	1/4	72	37	5

inside ○/outside ● DIN 3126/ISO 1173

3825/1 Quick-change holder

for BITS screwdriver bits
with 1/4" external hexagonal drive
DIN 3126/ISO 1173 Type C 6.3,
with quick-action chuck,
adaptor with external hexagonal
drive for powered use.



Code	inside ○	"	outside ●	"	L mm	△△ g	☐
38250002	D 6.3	1/4	E 6.3	1/4	62	27	1

inside ○/outside ● DIN 3126/ISO 1173

3115 Adaptor

for torque screwdrivers
No 760 and No 775
for manually operated sockets
with recessed 6.3 (1/4") square
drive DIN 3120/ISO 1174-1
Type C and D, square drive
with ball bearing,
Chrome Alloy Steel,
gunmetal finish.

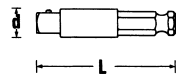


Code	outside ■	"	outside ●	"	L mm	d mm	△△ g	☐
31150001	6.3	1/4	E 6.3	1/4	50	10.5	16	5

outside ■ DIN 3120/ISO 1174-1
outside ● DIN 3126/ISO 1173

Adaptors

DIN 7428/ISO 3317, with outside hexagon for power operated
IMPACT sockets DIN 3129/ISO 2725-2 with inside square
DIN 3121/ISO 1174-2. Large collar diameter for better support of IMPACT
sockets. Square drive with spring loaded locking pin, Chrome Alloy Steel,
gunmetal finish.



Code	No	outside ■	"	outside ●	"	L mm	d mm	△△ g	☐
31160001	3116/1	6.3	1/4	E 6.3	1/4	50	10.5	16	5
31160002	3116/2*	6.3	1/4	E 6.3	1/4	100	10.5	36	5
32160001	3216/1	10	3/8	E 6.3	1/4	50	15.5	23	5
32160002	3216/2	10	3/8	E 6.3	1/4	100	15.5	42	5

outside ■ DIN 3121/ISO 1174-1
outside ● DIN 3126/ISO 1173
* to be discontinued

3115/1 Adaptor

for manually operated sockets with
recessed 6.3 (1/4") square drive
DIN 3120/ISO 1174-1 Type C
and D, square drive with ball
bearing,
Chrome Alloy Steel.



Code	outside ■	"	outside ●	"	L mm	△△ g	☐
31150002	6.3	1/4	C 6.3	1/4	25	10	5

outside ■ DIN 3120/ISO 1174-1
outside ● DIN 3126/ISO 1173

Bit holder

square drive socket,
for hand use only, for BITS-
Screwdriver bits with outside
hexagon 1/4" or 5/16"
DIN 3126/ISO 1173
Form C 6.3 or C 8,
Chrome Alloy Steel, chrome plated.
Internal hex drive with a collar-thrust
spring (registered design). Bits are
easy to insert, lock securely in
position and can be removed just as
easily; even hex bits with a wide
groove (Type E, DIN 3126/ISO 1173).



Code	No	inside ○	"	inside ○	"	d mm	L mm	△△ g	☐
11180010	412	D 6.3	1/4	C 6.3	1/4	11.6	25	15	5
12180026	442	D 6.3	1/4	C 10	3/8	16.5	32	30	5
12180030	443	D 8	5/16	C 10	3/8	16.5	32	39	5
13180010	543	D 8	5/16	C 12.5	1/2	22	38	65	5

inside ○ DIN 3126/ISO 1173
inside ○ DIN 3120/ISO 1174-1

412-1 Bit holder

○ 1/4" inside hexagon,
DIN 3126 form D 6.3/
ISO 1173 form D 6.3.

Outer ● 10 mm for use in tools with
10 mm internal hex drive or internal
double hexagon (e.g. "FLEXI"
double-ended flexi-joint spanners,
T-handle universal joint spanners,
box spanners, ratchet ring spanners
etc.)

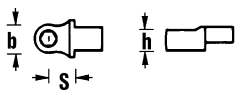
Internal hex drive with a collar-thrust
spring (registered design). Bits are
easy to insert, lock securely in
position and can be removed just as
easily; even hex bits with a wide
groove
(Type E, DIN 3126/ISO 1173).



Code	outside ●	L mm	d mm	△△ g	📦
11 18 00 20	10 mm	20	11.6	11	5

736 BIT holder insert tools

Internal hex drive with a collar-thrust spring (registered design). Bits are
easy to insert, lock securely in position and can be removed just as easily;
even hex bits with a wide groove (Type E, DIN 3126/ISO 1173).



Code	inside size ○	"	mm	b mm	h mm	S mm	△△ g
58 26 10 10	10	D 8	5/16	9 x 12	16	12.5	17.5 47
58 26 26 10	10-1	D 6.3	1/4	9 x 12	14	10	17.5 45
58 26 10 40	40	D 8	5/16	14 x 18	16	12.5	25 112

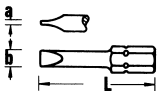
inside ○ DIN 3126/ISO 1173

BITS screwdrivers

with outside hexagon DIN 3126/ISO 1173,
shape E 6.3 (1/4"), for use in power drivers.

⊖ BITS screwdrivers

DIN 3127/ISO 2351, for slotted screws.



Code	No	a x b mm	outside ●	"	L mm	△△ g	📦
08 30 06 35	1242	0.6 x 3.5	E 6.3	1/4	50	8	10
08 30 08 40	1244	0.8 x 4	E 6.3	1/4	50	9	10
08 30 10 55	1246	1 x 5.5	E 6.3	1/4	50	10	10
08 30 12 65	1248	1.2 x 6.5	E 6.3	1/4	50	12	10
08 30 16 80	1250	1.6 x 8	E 6.3	1/4	50	14	10

outside ● DIN 3126/ISO 1173

⊕ BITS screwdrivers

DIN 3128, for Phillips screws.



Code	No	Phillips- Recess®	outside ●	"	L mm	△△ g	📦
08 31 00 01	1260	1	E 6.3	1/4	50	10	10
08 31 00 02	1261	2	E 6.3	1/4	50	11	10
08 31 00 03	1262	3	E 6.3	1/4	50	11	10

outside ● DIN 3126/ISO 1173

Phillips-Recess® DIN 5260

⊕ BITS screwdrivers

for POZIDRIV/SUPADRIV® screws.



Code	No	POZIDRIV/ SUPADRIV®	outside ●	"	L mm	△△ g	📦
08 32 00 01	1270	1	E 6.3	1/4	50	10	10
08 32 00 02	1271	2	E 6.3	1/4	50	11	10
08 32 00 03	1272	3	E 6.3	1/4	50	11	10

outside ● DIN 3126/ISO 1173

⊖ BITS screwdrivers

DIN 7426/ISO 3109,
for Socket Head Screws.



Code	No	mm	outside ●	"	L mm	△△ g	📦
08 33 00 03	1280	3	E 6.3	1/4	50	9	10
08 33 00 04	1281	4	E 6.3	1/4	50	10	10
08 33 00 05	1282	5	E 6.3	1/4	50	12	10
08 33 00 06	1283	6	E 6.3	1/4	50	13	10
08 33 00 08	1284	8	E 6.3	1/4	50	18	10

outside ● DIN 3126/ISO 1173

⊕ BITS screwdrivers

for inside TORX® screws.

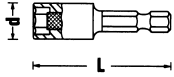


Code	No	size	outside ●	"	L mm	△△ g	📦
08 34 00 10	1290	T 10	E 6.3	1/4	70	14	10
08 34 00 15	1291	T 15	E 6.3	1/4	70	14	10
08 34 00 20	1292	T 20	E 6.3	1/4	70	14	10
08 34 00 25	1293	T 25	E 6.3	1/4	70	15	10
08 34 00 27	1294	T 27	E 6.3	1/4	70	16	10
08 34 00 30	1295	T 30	E 6.3	1/4	70	16	10
08 34 00 40	1296	T 40	E 6.3	1/4	70	18	10

outside ● DIN 3126/ISO 1173

2801 Sockets

with hexagon inserts for power drivers, hexagon fitted with permanent magnet, Chrome Alloy Steel, clear lacquered.



Code	mm	outside	"	d	L	g	
28010007	7	E 6.3	1/4	12	50	25	5
28010008	8	E 6.3	1/4	13	50	27	5
28010010	10	E 6.3	1/4	15.5	50	35	5
28010013	13	E 6.3	1/4	18.7	50	45	5

13006 Special socket

registered design, for use on plugs in electronic rack
Airbus A320-A340.



Code	outside	"	ø	L	g	
08230001	E 6.3	1/4	11	50	10	10

outside ● DIN 3126/ISO 1173

13007 BITS screwdriver

for use on plugs in electronic rack
Airbus A320-A340.



Code	"	outside	"	L	g	
08240006	3/32	E 6.3	1/4	50	10	5

outside ● DIN 3126/ISO 1173

4060 IMPACT driver set

for screw sizes M5-M10, in strong metal case.

Content:

1 each

IMPACT driver

No 4030

Adaptors No 4035;

No 4036

⊖ BITS screwdrivers

for slotted screws No 4040-4044

⊕ BITS screwdrivers

for Phillips-screws No 4050-4052

● BITS screwdrivers

for Hex. Socket Head screws

No 4055-4058



Code	g	
96322001	1410	1

4030 IMPACT driver

with inside hexagon for BITS screwdriver inserts
No 4040-4058, suitable for screws M 5-M 10, torque 120 N m.



Code	inside	L	g	
32200001	3/8	138	617	1

Adaptors

with outside hexagon, for IMPACT screwdriver No 4030.



Code	No	outside	outside	L	g	
32210001	4035	3/8	3/8	38	34	1
33210001	4036	3/8	1/2	38	43	1

⊖ BITS screwdrivers

for slotted screws, for IMPACT driver No 4030.



Code	No	a x b	outside	L	g	
08400010	4040	1.0 x 7	3/8	40	17	10
08400014	4041	1.4 x 9	3/8	40	19	10
08400016	4042	1.6 x 10	3/8	40	21	10
08400020	4043	2.0 x 12	3/8	40	20	10
08400015	4044	1.5 x 13	3/8	40	24	10
08400025	4045	2.5 x 16	3/8	40	30	10

⊕ BITS screwdrivers

for Phillips screws, for IMPACT driver No 4030.



Code	No	Phillips-Recess®	outside	L	g	
08410002	4050	2	3/8	35	17	10
08410003	4051	3	3/8	35	17	10
08410004	4052	4	3/8	35	17	10

Phillips-Recess® DIN 5260

● BITS screwdrivers

for socket head screws, for IMPACT driver No 4030.



Code	No	mm	outside	L	g	
08420005	4055	5	3/8	35	16	10
08420006	4056	6	3/8	35	16	10
08420008	4057	8	3/8	35	19	10
08420010	4058	10	3/8	35	23	10



With STAHLWILLE as your preferred partner

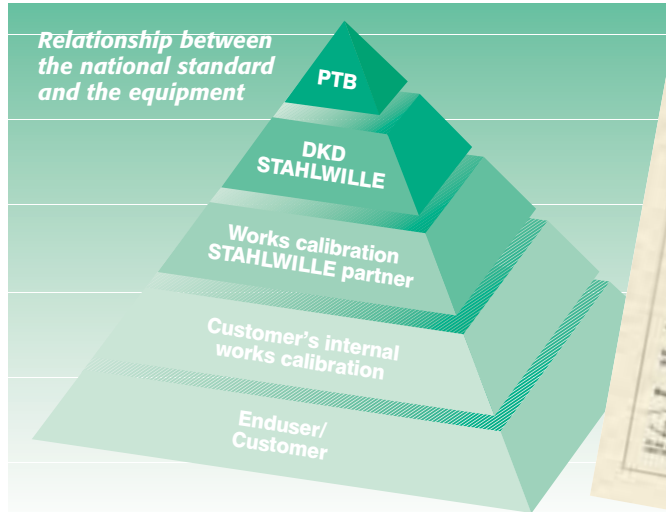
you can ensure controlled tightening, record the results of tightening processes, monitor torque tools.

STAHLWILLE's DKD calibration laboratory for torque is accredited by the German Calibration Service (DKD) in accordance with DIN EN ISO/IEC 17025. The specific requirements listed in Technical Specification ISO/TS 16949 relating to testing laboratories are also met.

Absolutely essential:

This is absolutely essential to all suppliers in the automotive sector!

The torque wrenches and torque transducers in use at STAHLWILLE's DKD



calibration laboratory are subject to regular examination by the German Federal Physics Institute (PTB) in Braunschweig.

The accuracy of the torque wrenches must be proved in a series of steps and these must be traceable. Only in this way can the reliability of the readings be guaranteed.

During the first stage, the enduser checks the accuracy of the torque tools in-house using suitable calibrated testing equipment. During the second stage, this testing jig is itself subjected to testing at STAHLWILLE's DKD



calibration laboratory or a calibration substation at one of STAHLWILLE's partners' facilities. This accreditation by the German Calibration Service (DKD) in accordance with DIN EN ISO/IEC 17025 guarantees the direct link between the measuring equipment and the national standard as laid down in DIN EN ISO 9001.

With the No 730N mechanical torque wrench

Rapid, accurate, safe work methods thanks to innovative technology. This new enhanced version of the highly acclaimed 730 torque wrench, available under the 730N tag, is the logical continuation of a successful product so that the user benefits even more from its advanced features.

The setting mechanism in the 730N is based on a completely new design concept. At the core of this technology is the new "QuickSelect" rapid-action adjuster. The required torque value is set quickly and accurately using the knob on the end of the handle. To set the required value, simply pull out the knob and turn it to the correct setting. During this action,

the clear-view double scale with its colour-differentiated N m and ft.lb/in.lb scales remains clearly visible at all times. Located right beside the knob is the ring scale which is used for fine tuning the measuring range. Once the required value has been set, the knob is simply pressed back in to lock it, which prevents the setting being inadvertently changed.

At a glance:

- Very quick, accurate one-handed setting
- Safe setting mechanism
- Easily readable 2-colour double scales in N m and ft.lb
- Double stop signals
- For clockwise and anticlockwise use
- Square drives with QuickRelease safety locks
- The measuring element is only under load while force is being applied
- Simple adjustment does not require disassembly
- Sturdy housing with wear-resistant, durable mechanism, protected from dirt inside the housing
- 2-component handle, resistant to various aggressive fluids
- Guaranteed maximum accuracy deviation $\pm 3\%$
- Complies fully with DIN EN ISO 6789
- Traceable to national standards

No need for manual reset to zero

thanks to the tried-and-tested wear-free triggering cam system



QR QuickRelease safety lock

Firm locking and rapid change of insert tools thanks to the QuickRelease safety lock.

Simple adjustment

The measuring mechanism can be quickly and easily adjusted from outside the tool using an Allen key inserted through the holes in the rating plate. It is not necessary to dismantle the torque wrench, which saves time.

Easily readable double scale

The colour differentiation between the N m and ft.lb scales simplifies fine setting.



Variable drive

The square drive enables a broad range of tightening tools to be used to match virtually any application. STAHLWILLE offers a full range of suitable insert tools for many applications.



Ring scale

Fine setting for the black measuring range on the double scale



QuickSelect Rapid setting

Rapid, accurate, safe setting action: pull out the knob, turn it to the required reading with just a few revolutions and push it in again to lock it.



With STAHLWILLE as your preferred partner

Reliable safety thanks to intelligent technology with the new STAHLWILLE Sensotork range. Decades of research and development have given STAHLWILLE a head start as the experts in the design and manufacture of torque tools.

The new Sensotork torque wrenches, angle-controlled wrenches and testers are further milestones along this fast-track path.

Our Sensotork 712 torque wrench and the 713 torque/angle-controlled wrench developments are based on a completely new and innovative concept.

Apart from the broad spectrum of applications, this intelligent technology enables the user to perform measurements fast and extremely accurately.

At a glance:

- freely selectable names for each series of tests
- Quickselect (rapid recall of predefined sets of operating parameters)
- a number of repeated joints can be grouped as a defined sequence
- readings can either be directly stored, transmitted to the PC or simply displayed
- password protection (tamper proof use)
- wide display angle for visual signals
- extremely wide range of angle measurement (Sensotork 713)
- various languages available
- units of measurement: N m, ft.lb, in.lb
- many modes of operation selectable
- for clockwise and anti-clockwise use
- works-specific identifier
- programmable via PC
- for use with all insert tools 9x12 and 14x18 mm
- resistant to oils, grease, fuels, brake fluids and skydrol
- broad measuring range (5 %-100 % of rated value)
- display deviation value $\pm 1\%$ of the current reading, $\pm 1\%$ in the angle mode (Sensotork 713 only)
- traceable to national standards
- meets requirements of DKD-R 3-7, Class 2 and DIN EN ISO 6789,
- wide range of application (-20°C to 60°C).

Sensotork

712R Electronic torque wrench

713R Electronic torque wrench/angle-controlled wrench

2 Angle-controlled measurements without a reference arm:

Angle-controlled measurements using the Sensotork 713R do not require a reference arm.

QR QuickRelease

Firm locking and rapid change of any insert tools thanks to the QuickRelease safety lock.

1 Easy extension setting:

Where the insert tool requires an extension adjustment, simply enter the new value. Recalculation using complicated formulae is no longer necessary.

4 Warning signals:

Warning signals can be selected as either acoustic (buzzer), tactile (vibration in the handle), visual (LEDs and display) or a combination of these. The point at which the warning signal is triggered can be freely set.

5 Free choice of grip:

The reading will always be accurate, irrespective of where you grip the torque wrench.

6 Data output:

The port allows all data stored in the wrench to be output to a PC for detailed evaluation (USB).

3 Amazingly simple handling:

All functions are selected using the arrow keys. The clear, well-organised menu-based operator guidance system, which uses clear text messages such as "Set up sequence", makes using the tool an easy matter. No need for a long drawn-out trial-and-error induction period.





The Sensotork 7707 W electronic torque tester also offers a multitude of convenient technical advantages.

At a glance:

- transducers can be individually recalibrated, your torque tester stays on site

- compact, can be used as a mobile laboratory (power supply is via the USB connection)
- the readings can be evaluated and digitalised inside the transducer (no external interference from a data cable)

- effect of lateral forces considerably reduced thanks to low-profile construction
- many operating modes
- automatic transducer detection
- wide range of application (-20°C to 60°C).
- acoustic overload warning
- clockwise and anticlockwise use
- units of measurement: Nm, ft.lb, in.lb
- broad measuring range (0.9 %-100 % of rated value)
- display deviation value up to ± 0.25 % of reading
- meets DIN 51309, Class 2, with works calibration certificate
- traceable to national standards
- solid aluminium mounting block incl. attachment for horizontal and vertical testing

STAHWILLE calibration service:

We are able to provide users of the 7707 W testers with a smoothly run, first-class calibration service. Once a year, we will send you a replacement transducer without you having to request or order it. When you receive it, simply return your own to us for calibration and continue to use your Torque Tester with no production downtime at all.



Sensotork
7707 W Electronic torque tester

1 Displays and controls:

This highly user-friendly unit can display both the preset torque value and the actual torque applied at the same time. The unit can be positioned the way it suits you best – especially convenient where the measuring axis is horizontal or if you are using the tripod supplied, which includes the cable (1.5 m).



Intelligent transducers:

The readings are fully evaluated and digitalised inside the transducer using special, integrated circuitry. As an alternative to the display unit, you can use a PC and connect the unit via a USB cable, which also allows you to perform and organise measurements and generate a calibration certificate directly.

Interchangeable transducers:

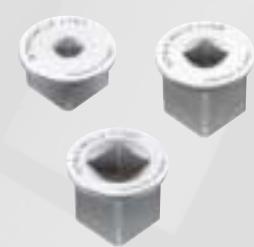
The measuring range of the torque tester can be extended flexibly simply by changing the transducer for one with a different range.



QR QuickRelease

Rapid change and firm locking of the transducers thanks to the QuickRelease safety lock.

2



Interchangeable square drive adapters:

A set of interchangeable square drive adapters are conveniently stored in the mounting block for a range of different drive sizes.

3

STAHLWILLE as your partner

Complete calibration systems with matched components.

Calibration is the regular examination of the accuracy and reliability of torque tools.

This is done using special-purpose calibrating equipment which is subject to stringent monitoring.

This is essential because torque tools are precision instruments which are very often in use in safety-relevant environments. They are expected to provide the same level of accuracy in their readings reliably over long periods of time.

In order to ensure these standards are guaranteed, it is essential that examination by means of calibration takes place at regular intervals and is documented.

Equipment required for calibration

At the very least, a calibration system must include the following components.



1. Mechanical loader

The mechanical loader is required for rapid, accurate fixing and operation of the torque wrench. The mechanical loader also ensures that the DIN EN ISO 6789 requirement for clicking torque wrenches is fulfilled, i.e. that, above 80% of the final torque value, the force is applied slowly and steadily within a period of 0.5 to 4 seconds.



2. Transducer

The torque applied using the torque wrench is digitalised within the transducer and transmitted via USB cable to the PC, which ensures error-free transmission.



3. USB hub and USB cable

Up to 5 transducers can be connected to the USB hub. From here, the data are transferred to the PC.



4. Cable

You will require 1 cable fitted with jack plugs for each transducer which is permanently connected up.



5. Square drive adapter

The set includes the square drive adapters necessary to make full use of the

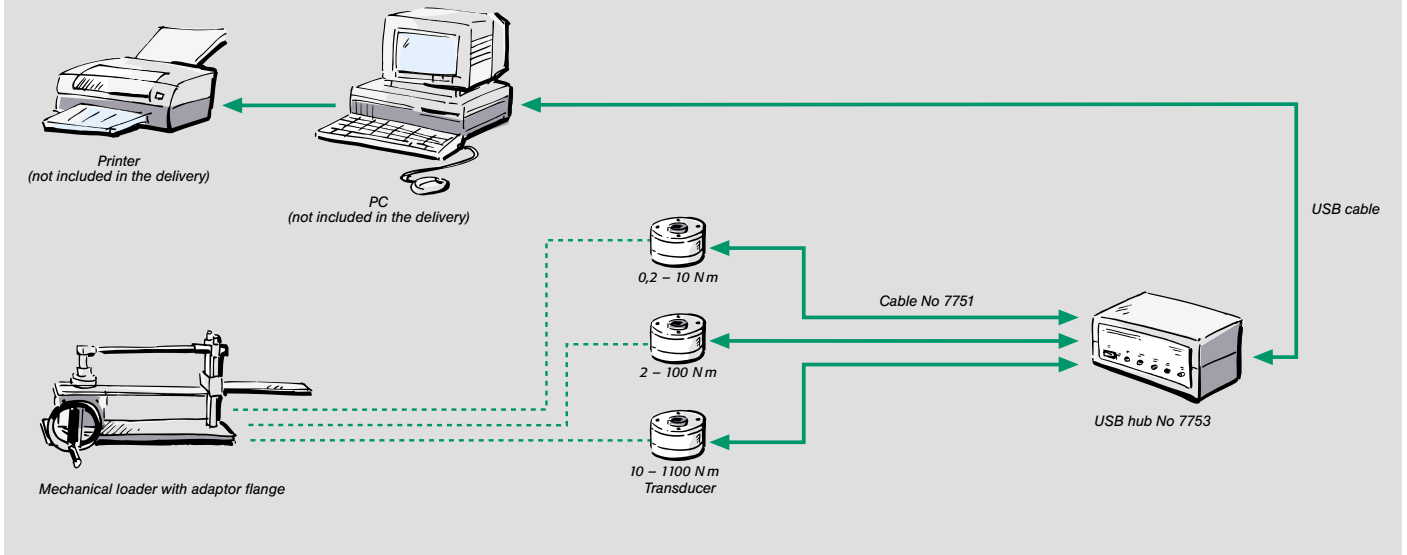
measuring range of the transducers; e.g. for transducer No 7723 (internal square drive 3/4"), square drive adapter No 7787 (1/4" female to 3/4" male), No 7788 (3/8" female to 3/4" male) and No 7789 (1/2" female to 3/4" male).



6. Software

The data received in this way can then be used to issue a calibration certificate in accordance with DIN/ISO 6789.

Complete calibrating systems



Complete systems No:		7706-6 PC	7706-7 PC
Code		96 52 10 66	96 52 10 67
Weight in kg		61.5	56.8
Range in N m		2 - 1100	10 - 1100
	Mechanical loader (incl. adaptor flange)	No 7541	No 7541
	Transducer*	No 7722 (2-100 N m) No 7723 (10-1100 N m)	No 7723 (10-1100 N m)
	USB hub (incl. cable for connection to PC)	No 7753	-
	USB cable	-	No 7757
	Jack cable (connection between transducer and USB hub)	2 x No 7751	-
	Square drive adaptor	No 409M (1/4" □ x 3/8" ■) No 7787 (1/4" □ x 3/4" ■) No 7788 (3/8" □ x 3/4" ■) No 7789 (1/2" □ x 3/4" ■)	No 7787 (1/4" □ x 3/4" ■) No 7788 (3/8" □ x 3/4" ■) No 7789 (1/2" □ x 3/4" ■)
	Calibration software	No 7731	No 7731
	Works calibration certificate (one per transducer)	2	1

In order to test torque screwdrivers, you will require Testing mount No 7790-1, p. 188, and adaptor No 3115, p. 158.

PC requirements: at least 1 USB interface. Printer and PC are not included in the delivery.

*The transducers can also be used as part of workshop torque tester No 7707 W.

Which insert tool for which torque wrench?

730N Service MANOSKOP®, with cut-out



730 Service MANOSKOP®, with cut-out



755 Industrial MANOSKOP®, with cut-out



No			725QR/4	725QR/5	725QR/10	725QR/20	725B	725L/5	725/4	735/5	735/10	735/20	735/40	735/80	739/20H	734/4	734/5	734/10	734/20	734/40	734/80
size	size	mm																			
2	a/2	9x12	●	●	●		●	●	●	●	●					●	●	●			
4	a/4	9x12	●	●	●		●	●	●	●	●					●	●	●			
5	a/5	9x12	●	●	●		●	●	●	●	●					●	●	●			
10	a/10	9x12		●	●					●	●						●	●			
12	a/12	14x18				●						●	●		●				●	●	
20	a/20	14x18				●						●	●		●				●	●	
30	-	14x18				●						●	●						●	●	
40	a/40	14x18										●	●							●	●
65	-	14x18										●	●								●
80	-	24.5x28												●							●

No			734F	734L/5	731/10	731/40	731/80	732/10	732/40	732/80	732aL/10	732G/10	732TX/10	732TX/40	733/10	736/10	736/40	737/10	737/40	7370/80	
size	size	mm																			
2	a/2	9x12	●	●	●				●		●	●	●		●	●		●	●		
4	a/4	9x12	●	●	●				●		●	●	●		●	●		●	●		
5	a/5	9x12	●	●	●				●		●	●	●		●	●		●	●		
10	a/10	9x12	●	●	●				●		●	●	●		●	●		●	●		
12	a/12	14x18				●			●					●			●		●		
20	a/20	14x18				●			●					●			●		●		
30	-	14x18				●			●					●			●		●		
40	a/40	14x18				●			●					●			●		●		
65	-	14x18				●			●					●			●		●		
80	-	24.5x28					●			●											●

71 Torque Wrenches MANOSKOP®, indicating



No			725QR/4	725QR/5	725QR/10	725QR/20	725B	725L/5	725/4	735/5	735/10	735/20	735/40	735/80	739/20H	734/4	734/5	734/10	734/20	734/40	734/80
size	size	mm																			
2	a/2	9x12	●	●	●		●	●	●	●	●					●	●	●			
5	a/5	9x12	●	●	●		●	●	●	●	●					●	●	●			
10	a/10	9x12		●	●					●	●						●	●			
20	a/20	14x18				●						●	●		●				●	●	
40	a/40	14x18				●						●	●		●				●	●	
80	a/80	24.5x28					●							●							●

No			734F	734L/5	731/10	731/40	731/80	732/10	732/40	732/80	732aL/10	732G/10	732TX/10	732TX/40	733/10	736/10	736/40	737/10	737/40	7370/80	
size	size	mm																			
2	a/2	9x12	●	●	●				●		●	●	●		●	●		●	●		
5	a/5	9x12	●	●	●				●		●	●	●		●	●		●	●		
10	a/10	9x12	●	●	●				●		●	●	●		●	●		●	●		
20	a/20	14x18				●			●					●			●		●		
40	a/40	14x18				●			●					●			●		●		
80	a/80	24.5x28					●			●											●

712R Electronic Torque Wrenches Sensotork

713R Electronic angle-controlled Torque Wrenches Sensotork


No		725QR/4	725QR/5	725QR/10	725QR/20	725B	725L/5	725/4	735/5	735/10	735/20	735/40	739/20H	734/4	734/5	734/10	734/20	734/40	
size	mm																		
6	9x12	●	●	●		●	●	●	●	●				●	●	●			
20	14x18				●						●	●	●					●	●
40	14x18											●							●

No		734F	734L/5	731/10	731/40	732/10	732/40	732aL/10	732G/10	732TX/10	732TX/40	733/10	736/10	736/10-1	736/40	737/10	737/40	
size	mm																	
6	9x12	●	●	●		●		●	●	●		●	●			●	●	
20	14x18				●		●				●				●		●	
40	14x18				●		●				●				●		●	

716R/20 GRADOSKOP® Torque-Angle Wrench


No		739/20	734/20	731/40	732/40	732TX/40	
size	mm						
20	14x18	●	●	●	●	●	

Maximum continuous loads of square drive and ratchet insert tools are limited to: 734/4 – 40 Nm, 734/5 – 80 Nm, 734/10 – 100 Nm, 734/20 – 300 Nm, 734/40 – 400 Nm.
 The maximum torque for open-ended, ring, open-ring and TORX® insert tools varies according to their individual size. This can be below the maximum capacity of the torque wrench used.


STAHLWILLE is an accredited calibrating laboratory.

Controlled tightening is a must in terms of safety and the lifetimes of the screws and bolts.

STAHLWILLE has been awarded accreditation as a calibrating laboratory for torque by the German Calibration Service ("DKD") because of the Company's skills in the field of torque controlled tightening.

STAHLWILLE's calibration service

The STAHLWILLE calibration service is in a position to offer both the usual works calibration certificate and the "DKD" certificate.

Included in the price of calibration of STAHLWILLE products are the costs of any adjustment required and a second calibration operation.

In addition, the STAHLWILLE calibration service provides complete monitoring, documentation archiving and follow-up timing for torque wrenches and testers.

Additional information on these services is available on request.

Service MANOSKOP® 730N

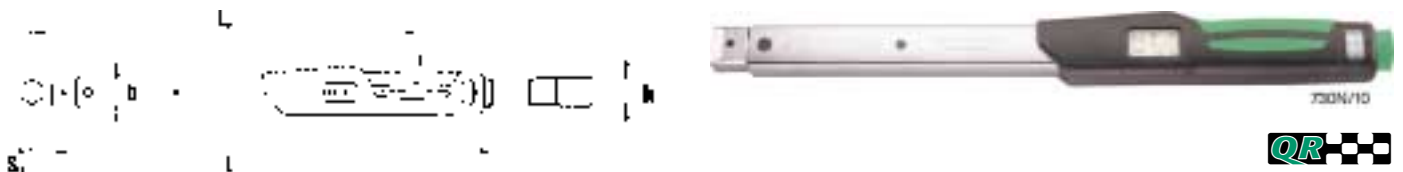
Clicking torque wrench with mount for interchangeable socket tools, rapid, accurate setting using QuickSelect quick-action adjuster, with QuickRelease safety lock, double stop signals, very clear twin scales with colour coded N m/ft.lb and ft.lb/inch.lb. markings and long-term repeated accuracy.

The measuring element is only under load while force is being applied, no need for manual reset to zero. All the sensitive components are protected by the sturdy housing. The 2-component handle with its ergonomically designed green softer layers is resistant to oils, grease, fuels, brake fluids and Skydrol. Any force applied to the tool after the “click” or applied in the opposite direction to the current function – e.g. forcible loosening of a jammed screw – does not act on the trigger mechanism and cannot cause damage to it. The swap-over inserts can also be used to apply torque in an anticlockwise direction. Easily adjustable without disassembly, e.g. using testers No 798, No 799 or No 7707 W.

Guaranteed maximum accuracy deviation $\pm 3\%$. With certificate.

(Inserts see pages 181-185)

730N Basic wrenches with tool carrier for insert tools



Code	size					Fine scale 		b mm	h mm	L mm	L _F mm	S _F mm	Δ g
50181005	5	10 – 50 N m	7 – 37 ft.lb	5 N m	1 ft.lb	0.25 N m	9 x 12	28	23	330	280.5	17.5	1054
50181010	10	20 – 100 N m	15 – 75 ft.lb	10 N m	2.5 ft.lb	0.5 N m	9 x 12	28	23	386	336	17.5	1210
50181012	12	25 – 130 N m	20 – 95 ft.lb	10 N m	2.5 ft.lb	0.5 N m	14 x 18	28	23	421	379	25	1356
50181020	20	40 – 200 N m	30 – 150 ft.lb	10 N m	5 ft.lb	1 N m	14 x 18	28	23	467	424.5	25	1489
50181040	40	80 – 400 N m	60 – 300 ft.lb	20 N m	10 ft.lb	2 N m	14 x 18	28	23	607	564.5	25	1888
50181065	65	130 – 650 N m	100 – 480 ft.lb	50 N m	20 ft.lb	2.5 N m	14 x 18	30.6	25.6	890	848	25	3400
50581005	a/5	7 – 37 ft.lb	90 – 450 in.lb	1 ft.lb	50 in.lb	2.5 in.lb	9 x 12	28	23	330	280.5	17.5	1054
50581010	a/10	15 – 75 ft.lb	180 – 900 in.lb	2.5 ft.lb	100 in.lb	5 in.lb	9 x 12	28	23	386	336	17.5	1210
50581020	a/20	30 – 150 ft.lb	350 – 1800 in.lb	5 ft.lb	100 in.lb	10 in.lb	14 x 18	28	23	467	424.5	25	1489
50581040	a/40	60 – 300 ft.lb	800 – 3600 in.lb	20 ft.lb	100 in.lb	2 ft.lb	14 x 18	28	23	607	564.5	25	1888

Mechanical torque wrench 730N for rapid, accurate and safe working.



QuickRelease safety lock

Firm locking and rapid change of insert tools thanks to the QuickRelease safety lock.



QuickSelect Rapid setting

Rapid, accurate, safe setting action: pull out the knob, turn it to the required reading with just a few revolutions and push it in again to lock it.



No need for manual reset to zero

thanks to the tried-and-tested wear-free triggering cam system

Ring scale

Fine setting for the black measuring range on the double scale

Easily readable double scale

The colour differentiation between the Nm and ft.lb scales simplifies fine setting.

Service MANOSKOP® 730

Torque wrenches offering quick adjustment, with cut-out, with QuickRelease safety lock (size 5-65) dual signal (size 2-40), dual scale N m/ft.lb. resp. N m/inch.lb. (size 5-80), long term accuracy and facility to accept insert/shell tools.

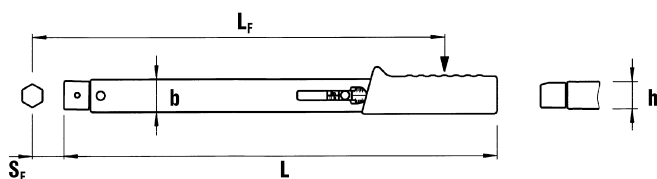
The robust steel tube completely encloses all working parts. Any force applied to the tool after the “click” or applied in the opposite direction to the current function – e.g. forcible loosening of a jammed screw – does not act on the trigger mechanism and cannot cause damage to it. Reversible insert/shell tools allow anticlockwise operation.

Recalibration, without dismantling, with the aid of checking gauges No 798, No 799 or No 7707 W.

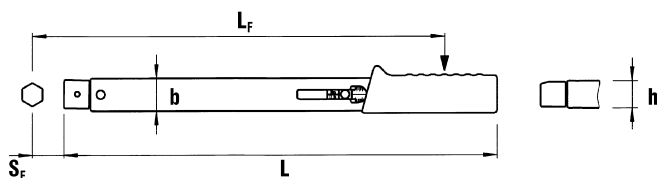
Guaranteed accuracy $\pm 4\%$. With certificate.

Insert/shell tools see pages 181-185.

730 Basic wrenches with tool carrier for insert tools

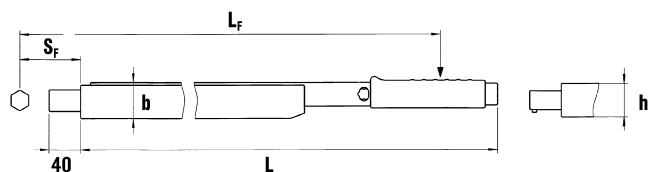


Code	size				mm	b mm	h mm	L mm	L _F mm	S _F mm	Δg
50 18 0002	2	4 – 20 N m	0.5 N m		9 x 12	27.5	23	178.5	174	17.5	315
50 18 0004	4	8 – 40 N m	1 N m		9 x 12	27.5	23	222	218	17.5	395
50 58 0002	a/2	30 – 175 in.lb	5 in.lb		9 x 12	27.5	23	178.5	174	17.5	315
50 58 0004	a/4	70 – 350 in.lb	10 in.lb		9 x 12	27.5	23	222	218	17.5	395



Code	size					mm	b mm	h mm	L mm	L _F mm	S _F mm	Δg
50 18 0005	5	6 – 50 N m	5 – 36 ft.lb			9 x 12	28	23	315	288	17.5	805
50 18 0010	10	20 – 100 N m	15 – 72.5 ft.lb			9 x 12	28	23	370	343	17.5	1020
50 18 0012	12	25 – 130 N m	20 – 95 ft.lb			14 x 18	28	23	410	390	25	1100
50 18 0020	20	40 – 200 N m	30 – 145 ft.lb			14 x 18	28	23	455	435	25	1250
50 18 0040	40	80 – 400 N m	60 – 300 ft.lb			14 x 18	28	23	590	570	25	1655
50 18 0065	65	130 – 650 N m	100 – 480 ft.lb			14 x 18	30.6	25.6	875	855	25	3480
50 58 0005	a/5	6 – 50 N m	50 – 440 in.lb			9 x 12	28	23	315	288	17.5	805
50 58 0010	a/10	20 – 100 N m	180 – 880 in.lb			9 x 12	28	23	370	343	17.5	965
50 58 0012	a/12	25 – 130 N m	225 – 1150 in.lb			14 x 18	28	23	410	390	25	1100
50 58 0020	a/20	40 – 200 N m	350 – 1750 in.lb			14 x 18	28	23	455	435	25	1250

730 Basic wrench with tool carrier for shell tools, registered design



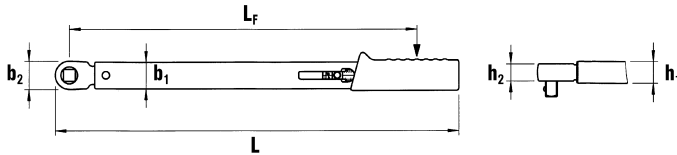
Code	size					mm	b mm	h mm	L mm	L _F mm	S _F mm	Δg
50 18 0080	80	160 – 800 N m	120 – 600 ft.lb			24.5 x 28	46	43	970	990	95	4925

Use shell adaptor No 7370/80 to make 14 x 18 mm insert tools fit.

Standard MANOSKOP® 720

Torque wrenches with dual "Stop" signal and cut-out, rapid adjustment, dual scale N m/ft.lb and long service life. Robust steel tube protects all working parts. Any force applied to the tool after the "click" or applied in the opposite direction to the current function – e.g. forcible loosening of a jammed screw – does not act on the trigger mechanism and cannot cause damage to it. Recalibration, without dismantling, with the aid of checking gauges No 798, No 799 or No 7707 W. Guaranteed accuracy $\pm 4\%$. With certificate.

720* Torque wrenches with square drive



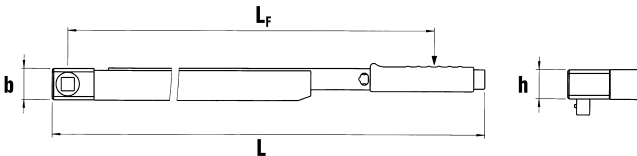
Code	size					"	b ₁ mm	b ₂ mm	h ₁ mm	h ₂ mm	L mm	L _F mm	S _F mm	Δ g
50190015	15	30 – 150 N m	25 – 110 ft.lb	5 N m	5 ft.lb	1/2	28	30	23	18	430	370	0	1175
50190030	30	60 – 300 N m	50 – 220 ft.lb	10 N m	10 ft.lb	1/2	28	30	23	18	545	485	0	1470

* to be discontinued

Standard MANOSKOP® 720Nf

Torque wrenches with dual "Stop" signal and cut-out, micrometer type adjustment, dual scale N m/ft.lb and long service life. Robust steel tube and light alloy "U"-profile protect all working parts. Push through square drive for right and left hand tightening. Recalibration without dismantling. Guaranteed accuracy $\pm 4\%$. With certificate.

720Nf Torque wrench with square drive



Code	size					"	b mm	h mm	L mm	L _F mm	S _F mm	Δ g
50190081	80	160 – 800 N m	120 – 600 ft.lb	20 N m	20 ft.lb	3/4	45	42	1034	938	0	5650

Plastic case, empty

for safe storage and transport of torque wrenches (please order inlays separately). Supplied without torque wrench.



Code	No	for torque wrenches No	L mm	Δ g
81370002	7301	720/15; 721/5; 721/15; 730/5; 730/10; 730/12; 730/20; 730a/5; 730a/10; 730a/12; 730a/20; 730N/5; 730N/10; 730N/12; 730N/20; 730Na/5; 730Na/10; 730Na/20	550	425
81370003	7302	720/30; 721/30; 730/40; 730N/40; 730Na/40	680	535

Inlays for plastic case

Code	for torque wrenches No	Δ g
83071004	720/15; 721/5; 721/15; 730/5; 730/10; 730/12; 730/20; 730a/5; 730a/10; 730a/12; 730a/20; 730N/5; 730N/10; 730N/12; 730N/20; 730Na/5; 730Na/10; 730Na/20	88
83071002	720/30; 721/30; 730/40; 730N/40; 730Na/40	113

1299 BITS

for inside hexagon screws, for operating the adjusting screws on torque wrenches No 720, 721, 730 and 730N.



Code		outside mm	"	L mm	Δ g	
08090002	2	C 6.3	1/4	34	4	10

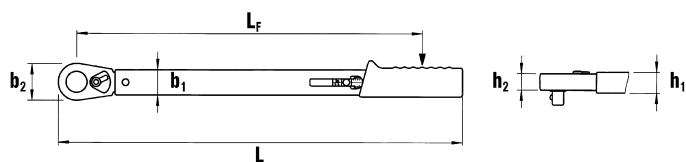
outside DIN 3126/ISO 1173

Standard MANOSKOP® 721

Torque wrenches with dual "Stop" signal and cut-out, rapid adjustment, dual scale N m/ft.lb and long service life. Robust steel tube protects all working parts. Any force applied to the tool after the "click" or applied in the opposite direction to the current function – e.g. forcible loosening of a jammed screw – does not act on the trigger mechanism and cannot cause damage to it. Recalibration, without dismantling, with the aid of checking gauges No 798, No 799 or No 7707 W.

Guaranteed accuracy $\pm 4\%$. With certificate.

721 Torque wrenches with reversible ratchet



Code	size					"	b ₁ mm	b ₂ mm	h ₁ mm	h ₂ mm	L mm	L _F mm	$\Delta\Delta$ g
50 20 00 05	5	6 – 50 N m	5 – 36 ft.lb	2 N m	1 ft.lb	$\frac{3}{8}$	28	27.5	23	14.5	352	293	900
50 20 00 15	15	30 – 150 N m	25 – 110 ft.lb	5 N m	5 ft.lb	$\frac{1}{2}$	28	41	23	18	452	387	1305
50 20 00 30	30	60 – 300 N m	50 – 220 ft.lb	10 N m	10 ft.lb	$\frac{1}{2}$	28	44	23	27.5	553	486	1720

size 30 with push through square drive

721/15/5 Torque wrench set

for wheel assembly
on automobiles.

Content:

1 Torque wrench No 721/15

4 sockets $\frac{1}{2}$ " with hexagon No 51S

sizes 17; 19; 20.8; 22 mm

1 Balance weight pliers No 10599/2



Code	$\Delta\Delta$ g
96 50 20 73	2720

Standard MANOSKOP® 721Nf

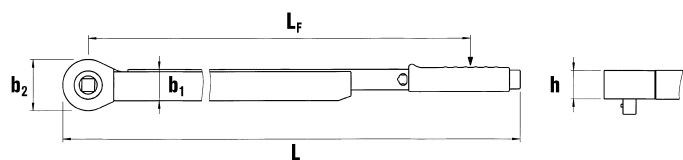
Torque wrenches with dual "STOP" signal and cut-out, micrometer type adjustment, dual scale N m/ft.lb and long service life.

Robust steel tube and light alloy "U"-profile protect all working parts.

Push through square drive for right and left hand tightening. Recalibration without dismantling.

Guaranteed accuracy $\pm 4\%$. With certificate.

Torque wrenches with ratchet



Code	size					"	b ₁ mm	b ₂ mm	h mm	L mm	L _F mm	$\Delta\Delta$ g
50 20 00 81	80	160 – 800 N m	120 – 600 ft.lb	20 N m	20 ft.lb	$\frac{3}{4}$	46.5	76	42	1051	938	6770
96 50 20 01	100	200 – 1000 N m	150 – 725 ft.lb	25 N m	25 ft.lb	$\frac{3}{4}$	46.5	76	42	1504	1365	6970

Industrial MANOSKOP® 755

Torque wrenches with tool carrier for interchangeable insert tools, dual stop signal and cut-out.

Especially light and handy because of patented design.

Robust steel tube encloses all working parts. Any force applied to the tool after the “click” or applied in the opposite direction to the current function – e.g. forcible loosening of a jammed screw – does not act on the trigger mechanism and cannot cause damage to it. Reversible insert tools enable anti-clock wise operation. Guaranteed accuracy $\pm 4\%$.

Industrial Manoskop No 755 is designed for continuous production work. Supplied without quick adjustment facility, the cut-out value has to be set with aid of STAHLWILLE Setting Gauges No 792, No 798, No 799 or No 7707 W.

If required, can be supplied with a preset trigger setting (price on application).

(Inserts see pages 181 - 185)

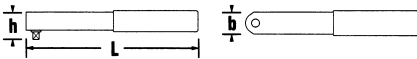
755R/1 Industrial MANOSKOP

Torque wrench with built-in ratchet, irrespective of the point of application of force,

dual stop signal and cut-out.

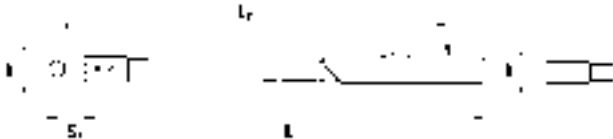
Guaranteed accuracy $\pm 4\%$.

Cut-out setting with aid of Setting Gauge.



Code			"	b mm	h mm	L mm	Δ g
50100001	1.5 – 12.5 N m	1.0 – 9.0 ft.lb	1/4	22	18	173.5	335

755 Basic wrenches with tool carrier for insert tool



Code	size				b mm	h mm	L mm	L _F mm	S _F mm	Δ g
50010004	4	4 – 40 N m	4 – 30 ft.lb	9 x 12	22	18	201	172	17.5	522
50010010	10	20 – 100 N m	15 – 74 ft.lb	9 x 12	28	24	318	289	17.5	635
50010020	20	40 – 200 N m	30 – 147 ft.lb	14 x 18	28	24	457	435	25	1060
50010030	30	60 – 300 N m	40 – 220 ft.lb	14 x 18	28	24	609	587	25	1210



TORSIOMAX 775

Torque Screwdriver with cut-out for controlled tightening in cN m and in.lb

With 1/4" inside hexagon (F 6.3 DIN 3126/ISO 1173), with cut-out, for one-off jobs and production runs, disengaging clutch coupling, clockwise and counterclockwise operation, DIN EN ISO 6789, Type II, Category D.

775 Torque screwdriver "TORSIOMAX"

The measuring element:

The measuring element is a screw compression spring.

Adjustment:

The level is set steplessly via a rotary micrometer scale.

Safe working methods:

These clicking torque screwdrivers are equipped with a ratchet which disengages when the preset torque level is reached – preventing excessive torque being applied. Guaranteed maximum accuracy deviation $\pm 6\%$. With certificate.

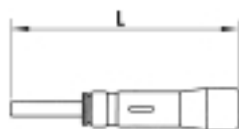
A firm grip:

The shape of the handle and its surface texture ensure safe and accurate transfer of torque.

Insert tools (bits):

For all 1/4" hex E 6.3, Phillips-head screws, POZIDRIV/SUPADRIV®, straight-slot, TORX®, hex bits (see pp. 159, 160).

For very small joints, bits with a 4 mm hex drive and an adaptor No 3115/2 for BITS screwdriver inserts, Type C4, and external hex 1/4" (E 6.3 DIN 3126/ISO 1173) are required (see pp. 154, 155, 158).



Code	size			inside ○	L mm	Δ g
51 06 00 03	3 ¹⁾	2 – 30 cN m	0.2 cN m	F 6.3	105	210
51 06 00 12	12 ²⁾	20 – 120 cN m	1 cN m	F 6.3	157	195
51 06 00 30	30 ²⁾	40 – 300 cN m	1 cN m	F 6.3	160	215
51 06 00 50	50 ²⁾	100 – 500 cN m	2.5 cN m	F 6.3	205	455
51 06 01 00	100 ³⁾	200 – 1000 cN m	5 cN m	F 6.3	235	770
51 46 00 03	a/3 ¹⁾	0.2 – 3 in.lb	0.02 in.lb	F 6.3	105	210
51 46 00 12	a/12 ²⁾	2 – 12 in.lb	0.1 in.lb	F 6.3	157	350
51 46 00 50	a/50 ²⁾	10 – 50 in.lb	0.25 in.lb	F 6.3	205	606

¹⁾ with a swivelling handle-end to improve tool control; and with a clamping screw for locking the preset.

²⁾ with an additional locking mechanism to prevent the selected torque being inadvertently adjusted.

³⁾ with screw-on handles for increasing the force applied for large torques.

Torque limiter for spark plugs

Torque limiters with cut-out measure directly on spark plug, thus ensuring high accuracy even when used with several accessory tools.

When the pre-set torque is reached the cut-out operates – “Pull-on” is impossible.

Pre-set value remains with these tools.

Due to the built-in left hand lock, spark plugs can be tightened as well as loosened.

Small overall dimensions avoid access problems.

Universal Torque Limiter No 7600 is set to required cut-on by means of pin.

ES 7600 Adjustment pin

for No 7600.

Code	$\Delta\Delta$ g	
59 13 10 01	15	10

7620 Torque limiter

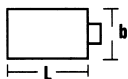
with built-in universal joint,
cut-out set at 20 N m, left hand lock.



Code	N m	■ "	○ "	b mm	L mm	$\Delta\Delta$ g
50 17 00 20	20	$\frac{3}{8}$	$\frac{3}{8}$	28	103	313

7600 Universal torque limiter for spark plugs

capacity 15-35 N m, with direct adjustment and left hand lock,
with adjustment pin.



Code			■ "	○ "	b mm	L mm	$\Delta\Delta$ g
50 16 00 35	15 – 35 N m	5 N m	$\frac{3}{8}$	$\frac{3}{8}$	28	53	236

with in-built torque trip value if requested (price available on request)

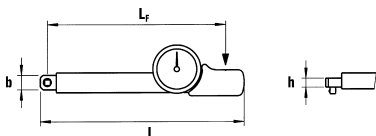
5

Indicating torque wrenches

Can be calibrated with testers No 792, No 798, No 799 or No 7707 W.

71 MANOSKOP® 71

Indicating torque wrench with a permanent square drive tool carrier and pointer follower. Scale is made of luminescent light yellow special film enabling clear readings even in poor light conditions, dual scale N m/in.lb. Measuring element is a deflection bar, with overload cut-out, can be subjected to load against the measuring direction, anticlockwise by turning over. Guaranteed accuracy $\pm 4\%$. With certificate.



Code	size					■ "	b mm	h mm	L mm	L _F mm	S _F mm	$\Delta\Delta$ g	$\Delta\Delta$ g with box
96 50 04 01	V/1	2.6 – 12.6 N m	22 – 110 in.lb	0.2 N m	2 in.lb	$\frac{1}{4}$	16	10	230	200	0	365	1068

71 MANOSKOP® 71

Indicating torque wrench with pointer follower and carrier for interchangeable insert tools. Scale is made of luminescent light yellow special film enabling clear readings even in poor light conditions, dual scale N m/in.lb.

Measuring element is a deflection plate in the handle, with overload cut-out. Can be subjected to load against the measuring direction, anticlockwise by turning over, supplied in sturdy metal box.

Guaranteed accuracy $\pm 4\%$. With certificate. Insert tools see pages 181-185.



Code	size						b mm	h mm	L mm	L _F mm	S _F mm	$\Delta\Delta$ g	$\Delta\Delta$ g with box
96 50 13 02	2	5 – 25 N m	45 – 225 in.lb	0.25 N m	2.5 in.lb	9 x 12	22	18	253	250	17.5	540	1103

71 MANOSKOP® 71 with integrated force compensator

Indicating torque wrench with pointer follower and carrier for interchangeable insert tools. Scale is made of luminescent light yellow special film enabling clear readings even in poor light conditions, dual scale N m/ft.lb. or N m/in.lb. Handle with integrated force compensator. Measuring element is a deflection plate in the handle, with overload cut-out. Can be subjected to load against the measuring direction, anticlockwise by turning over, supplied in sturdy metal box. Guaranteed accuracy $\pm 4\%$. With certificate. Insert tools see pages 181-185.

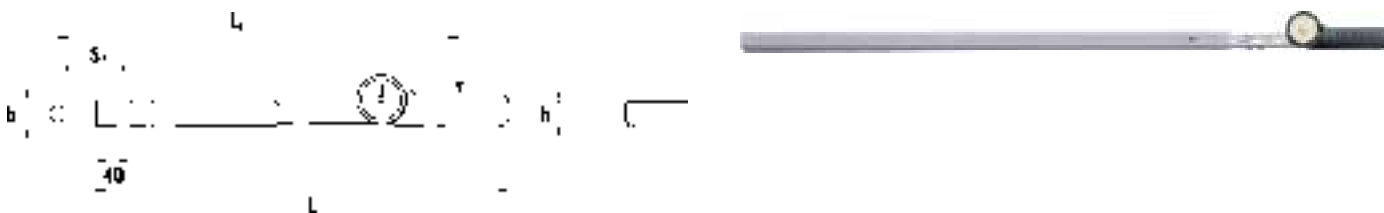


Code	size						b mm	h mm	L mm	L _F mm	S _F mm	Δ g	Δ g with box
96501305	5	10 – 50 N m	90 – 440 in.lb	0.5 N m	5 in.lb	9 x 12	22	18	322	284	17.5	645	2420
96501310	10	20 – 100 N m	180 – 880 in.lb	1 N m	10 in.lb	9 x 12	22	18	418	380	17.5	750	2550
96501320	20	40 – 200 N m	360 – 1760 in.lb	2 N m	20 in.lb	14 x 18	28	24	552	522	25	980	3335
96501340	40	80 – 400 N m	60 – 300 ft.lb	5 N m	5 ft.lb	14 x 18	28	24	778	748	25	1685	5350

71/80 MANOSKOP® 71 with integrated force compensator

Torque wrench, indicating, with carrier for interchangeable shell tools, registered design, use shell adaptor No 7370/80 to make 14 x 18 mm insert tools fit (max. 400 N m), with pointer follower, scale is made of luminescent light yellow special film enabling clear readings even in poor light conditions, dual scale N m/ft.lb.

Handle with integrated force compensator. Measuring element is a deflection plate in the handle, with overload cut-out, anticlockwise by turning over. Guaranteed accuracy $\pm 4\%$. With certificate. Insert tools see pages 181-185.



Code					mm	b mm	h mm	L mm	L _F mm	S _F mm	Δ g
50030080	160 – 800 N m	120 – 600 ft.lb	10 N m	10 ft.lb	24.5 x 28	28	24	1048	1050	95	2030

71aR/80 MANOSKOP® 71 with integrated force compensator

Indicating torque wrench with a permanent ratchet and pointer follower. Scale is made of luminescent light yellow special film enabling clear readings even in poor light conditions.

Twin scales ft.lb/Nm. Dial gauge has a protective ring as additional protection against knocks. Not for anticlockwise measurements. Boxed.

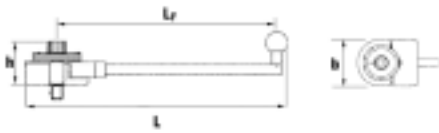
Guaranteed accuracy $\pm 4\%$. With certificate.



Code					"	b mm	h mm	L mm	L _F mm	Δ g
50450080	100 – 600 ft.lb	160 – 800 N m	10 ft.lb	10 N m	3/4	70	30	1152	1060	4280

73Nm/15 Friction gauge

Indicating torque wrench with permanently attached square drive and trailing pointer dial. No needle wobble during measurements. Lightweight construction through use of aluminium. Guaranteed maximum accuracy deviation $\pm 4\%$. With certificate.



Code			"	b mm	h mm	L mm	L _F mm	S _F mm	Δ g
50240015	2 – 15 N m	0.5 N m	1/2	72	50	298.5	250	0	676

TORSIOMETER 760

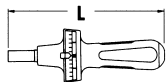
Indicating Torque Screwdriver with measuring element = torsional leaf spring, for right hand tightening (with pointer follower) and for left hand tightening.

760 Torque screwdrivers TORSIOMETER

With 1/4" inside hexagon (F 6.3 DIN 3126), with comparison scale in.lb.
Guaranteed accuracy $\pm 4\%$.

Insert tools:

All tools and accessories with hexagon drive shaft E 6.3 (1/4") DIN 3126/ISO 1173 are safely held in tool carrier.
BITS screwdrivers (see page 159, 160). For use with 1/4"-sockets, please order adaptor No 3115 (see page 158).



Code	size				inside O	L mm	Δ g
51040007	7.5	15 – 75 cN m	1.5 – 6.5 in.lb	2.5 cN m	F 6.3	185	231
51040015	15	30 – 150 cN m	3 – 13 in.lb	5 cN m	F 6.3	185	435
51040030	30	60 – 300 cN m	6 – 26 in.lb	10 cN m	F 6.3	185	231
51040060	60	120 – 600 cN m	12 – 52 in.lb	20 cN m	F 6.3	185	440



Electronic angle-controlled torque wrench Sensotork 713

Simple, flexible operation thanks to operator guidance on large-format display.

Very broad measuring range (5 % to 100 % of rated value) with display deviation value of ± 1 % of the current reading. Display deviation value of angle is ± 1 %.

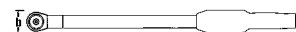
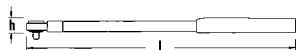
Repeated joint can be collated to form a single menu-guided sequence.

Insert tools see pages 181-185.

713R Electronic angle-controlled torque wrenches Sensotork



Electronic angle-controlled torque wrench with insert tool pawl-action ratchet, with QuickRelease safety lock, for clockwise and anticlockwise use, readings independent of point of application of force, units of measurement: N m, ft.lb, in.lb, advance warning points for visual, tactile and acoustic signals, torque and angle are simultaneously visible, convenient angle measurement across a very wide angle range without a reference arm, choice of individual insert lengths, maintenance friendly due to easy adjustment and automatic reminder of next calibration date, individual identification possible, tamper-proof due to password protection, meets requirements of DKD-R 3-7, Class 2 and DIN EN ISO 6789, with works certificate in accordance with DIN EN 10204, supplied in sturdy plastic case (size 40 in sturdy steel case). Included are 3 rechargeable cells, AA/LR6 RAM, 1.5 V, 1800 mAh. However, other batteries and cells may also be used: AA/LR6, 1.5 V batteries or AA/LR6, 1.2 V rechargeable cells.



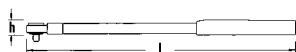
Code	size	N m	ft.lb	"	mm	b mm	h mm	L mm	g	g with box
96 50 16 06	6	3 – 60	2.5-44	$\frac{3}{8}$	9 x 12	50	33.5	378	856	1500
96 50 16 20	20	10 – 200	7-148	$\frac{1}{2}$	14 x 18	50	33.5	608	1552	2430
96 50 16 40	40	20 – 400	15-296	$\frac{3}{4}$	14 x 18	50	33.5	838	2332	5555

Electronic torque wrench Sensotork 712

712R Electronic torque wrench Sensotork



Electronic torque wrench with option of attaching interchangeable insert tools, same design as No 713 but without angle function.



Code	size	N m	ft.lb	"	mm	b mm	h mm	L mm	g	g with box
96 50 15 06	6	3 – 60	2.5-44	$\frac{3}{8}$	9 x 12	50	33.5	378	856	1500
96 50 15 20	20	10 – 200	7-148	$\frac{1}{2}$	14 x 18	50	33.5	608	1552	2430
96 50 15 40	40	20 – 400	15-296	$\frac{3}{4}$	14 x 18	50	33.5	838	2332	5555

Accessories for electronic angle-controlled torque wrench No 713 and electronic torque wrench No 712

7757+7052 USB cable and software for No 712R, 713R

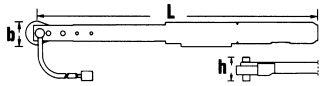
for statistical analysis of torque readings and recording series of readings on the PC.



Code	L m	g
96 58 36 22	1.5	100

716R/20 GRADOSKOP® torque angle wrench

Indicating Torque-Angle Wrench for speedy, safe and simple mechanical tightening of bolts by torque-angle method. The insert ratchet with 1/2" □-drive may be exchanged for STAHLWILLE insert tools with tang dimensions 14 x 18 mm (No 731/40 O/E, No 732/40 Ring, No 734/20 Sq.Drive), with snug-torque cut-out and signal attachment. On reaching required rotation angle, red warning signal lights up. In sturdy metal box.



Code					Torque-Angle double scale		b mm	h mm	L mm	Δ g	Δ g with box
96502820	20 – 100 N m	10 N m	1/2	14 x 18	0°-360°/360°-0°	5°	43	40	510	1980	4435

Caution! Maximum torque transmission = 200 N m (30% overload protected)

7386* Rotational angle measuring head

registered design, for torque wrenches with insert tool attachment 14 x 18 mm, for angle controlled tightening. Removable magnet for attaching sockets with 1/2" internal square drive. The tenon of the rotational angle measuring head is attached to the insert head of the torque wrench No 730 (size 12, 20 or 40). This turns the torque wrench into an angle-controlled wrench which is first used to torque up to the preset snug where the signal indicates that the preset has been attained, and then, after the rotational angle measuring head has been reset to zero, further force is applied until the required angle has been reached. The function of the wrench insert head remains unchanged. A range of insert tools can be used. The magnetic foot of the flexible reference arm has a universal joint mounting and can be attached at any suitable angle. Additionally, a signal emitter (No 7390) can be attached to the rotational angle measuring head and the red light will light up when the rotational angle measuring head, which has been set to the required angle, returns to zero during tightening.

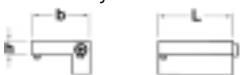


Code	b mm	L mm	h mm	Δ g
54020005	50	373	23.5	285

* to be discontinued

7390* Signal emitter

registered design, for rotational angle measuring head No 7386, with battery.

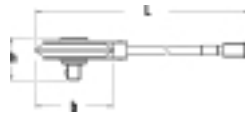


Code	b mm	L mm	h mm	Δ g
96582002	29	39.5	7	15

* to be discontinued

7380N/7385N Torque angle gauges

registered design, for angle controlled bolt/screw tightening, with static read-off point. Read-off possible from any angle thanks to a pair of angled scales. Removable magnet for attaching sockets with 1/2" internal square drive. For use in conjunction with tightening tools such as Service MANOSKOP® No 730. Since this tightening method requires a pre-determined snug torque to be applied, it is essential to choose a torque wrench covering both snug torque as well as maximum torque required to reach the degree of angle recommended. Whether 1/2" or 3/4" sq.dr. Torque Angle Gauge is used depends upon the square drive of the appropriate torque wrench employed.



Code	No					b mm	h mm	L mm	Δ g
54010001	7380N	1/2	1/2	± 360°	2°	78	43	416	494
54010002	7385N	3/4	3/4	± 360°	2°	78	76	416	720

Note!

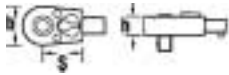
Torque tightening tools are measuring instruments. They must be regularly calibrated with suitable instruments and adjusted accordingly (see EN ISO 6789, 5.3 Recalibrating).

Insert/shell tools for torque wrenches

725QR QuickRelease ratchet insert tool



reversible, with QuickRelease safety lock.



Code	size	"	mm	b mm	h mm	S mm	ΔΔ g
58 25 30 04	4	1/4	9 x 12	22	14.5	17.5	60
58 25 30 05	5	3/8	9 x 12	29	14.5	28*	130
58 25 30 10	10	1/2	9 x 12	29	14.5	28*	141
58 25 30 20	20	1/2	14 x 18	41	18	38.5*	325

Maximum continuous loads of ratchet insert tools are limited to:
725QR/4 - 40 N m, 725QR/5 and 725QR/10 - 100 N m,
725QR/20 - 250 N m.

Limits must not be exceeded when these insert tools are used with torque wrenches of larger capacity.

* Caution! Modified settings on torque wrench (refer to note on page 192)

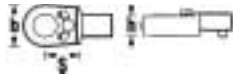
725/B Ratchet insert tool

reversible, with inside hexagon,
1/4" or 5/16", DIN 3126/ISO 1173 D 6.3 or D8 for
direct acceptance of bits 1/4" or 5/16"

outside hexagon C 6.3 (size 4: 22 teeth, size 5: 30 teeth).

Internal hex drive with a collar-thrust spring (registered design).

Bits are easy to insert, lock securely in position and can be removed just as easily; even hex bits with a wide groove (Type E, DIN 3126/ISO 1173).



Code	size	inside O "	mm	b mm	h mm	S mm	ΔΔ g
58 25 50 04	4	1/4	9 x 12	22	14	17.5	54
58 25 50 05	5	5/16	9 x 12	29	14.5	28*	117

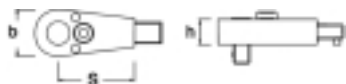
* Caution! Modified settings on torque wrench (refer to note on page 192)

725L/5 Ratchet insert tool

reversible.

Caution! Modified settings on torque wrench (refer to note on p. 192).

This ratchet insert tool has the same extension length as ring insert tool No 732G/10 (see p. 184) and square drive insert tool No 734L/5 (see p. 182)



Code	"	mm	b mm	h mm	S mm	ΔΔ g
58 15 10 05	3/8	9 x 12	27.5	14.5	45	164

725/4 Ratchet insert tool

reversible.



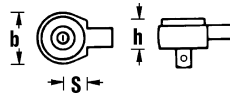
Code	"	mm	b mm	h mm	S mm	ΔΔ g
58 25 40 04	1/4	9 x 12	22	14.5	17.5	62

Maximum continuous loads of ratchet insert tools are limited to:
725/4 - 40 N m.

Limits must not be exceeded when these insert tools are used with torque wrenches of larger capacity.

735 Ratchet insert tools

reversible.



Code	size	"	mm	b mm	h mm	S mm	ΔΔ g
58 25 00 05	5	3/8	9 x 12	33	24	17.5	136
58 25 00 10	10	1/2	9 x 12	33	28.3	17.5	147
58 25 00 20	20	1/2	14 x 18	43	26.2	25	302
58 25 00 40	40	3/4	14 x 18	50	30.7	25	467

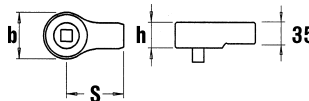
Maximum continuous loads of ratchet insert tools are limited to:

735/5 and 735/10 - 100 N m, 735/20 - 300 N m, 735/40 - 650 N m.

Limits must not be exceeded when these insert tools are used with torque wrenches of larger capacity.

735/80 Ratchet shell tool

registered design.



Code	"	mm	b mm	h mm	S mm	ΔΔ g
58 25 00 80	3/4	24.5 x 28	76	43	95	2000

739/20 Ratchet insert tool

for Torque-Angle Wrench

No 716/R20



Code	"	mm	ΔΔ g
58 28 00 20	1/2	14 x 18	272

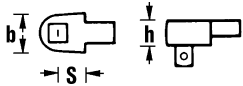
739/20H Ratchet insert tool

axially drilled pinion, locking facility for sockets.
For use on Hi-Lok bolts in the aerospace industry.



Code	"	mm	Δ	∇
5828 1020	1/2	14 x 18	g	260

734 Square drive insert tools



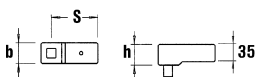
Code	size	"	mm	b mm	h mm	S mm	Δ	∇
5824 0004	4	1/4	9 x 12	20	14	17.5	71	
5824 0005	5	3/8	9 x 12	20	14	17.5	76	
5824 0010	10	1/2	9 x 12	20	14	17.5	82	
5824 0020	20	1/2	14 x 18	27	18	25	203	
5824 0040	40	3/4	14 x 18	40	25	25	396	

Caution: Maximum continuous loads of square drive insert tools are limited to: 734/4 - 40 N m, 734/5 - 80 N m, 734/10 - 100 N m, 734/20 - 300 N m, 734/40 - 650 N m.

Limits must not be exceeded when these insert tools are used with torque wrenches of larger capacity.

734/80 Square drive shell tool

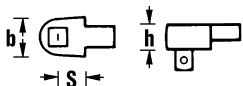
registered design.



Code	"	mm	b mm	h mm	S mm	Δ	∇
5824 0080	3/4	24.5 x 28	42	42	95	g	1200

734F Square drive insert tools

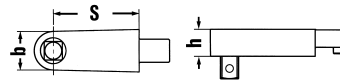
with permanently attached, captive square drive.



Code	size	"	mm	b mm	h mm	S mm	Δ	∇
5824 1004	4	1/4	9 x 12	22	14	17.5	72	
5824 1005	5	3/8	9 x 12	22	14	17.5	75	

734L/5 Square drive insert tool

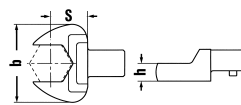
Caution! Modified settings on torque wrench (refer to note on p. 192). This square-drive insert tool has the same extension length as ring insert tool No 732G/10 (see p. 184) and ratchet insert tool No 725L/5 (see p. 181)



Code	"	mm	b mm	h mm	S mm	Δ	∇
5824 2005	3/8	9 x 12	20	14	45	g	141

731 Open ended insert tools

9 x 12 mm



Code	size	mm	b mm	h mm	S mm	Δ	∇
5821 1007	10	7	22	5	17.5	40	
5821 1008		8	22	5	17.5	39	
5821 1009		9	26	5.5	17.5	38	
5821 1010		10	26	5.5	17.5	42	
5821 1011		11	26	5.5	17.5	41	
5821 1012		12 ¹⁾	30	7	17.5	43	
5821 1013		13	30	7	17.5	48	
5821 1014		14	35	8	17.5	52	
5821 1015		15	35	8	17.5	51	
5821 1016		16	38	8.5	17.5	58	
5821 1017		17	38	8.5	17.5	60	
5821 1018		18	42	9	20*	71	
5821 1019		19	42	9	20*	74	

¹⁾ For flare nuts of hydraulic pipes on French vehicles

9 x 12 mm

Code	size	"	b mm	h mm	S mm	Δ	∇
5861 1016	a/10	1/4	22	5	17.5	36	
5861 1020		5/16	22	5	17.5	53	
5861 1024		3/8	26	5.5	17.5	38	
5861 1028		7/16	26	5.5	17.5	37	
5861 1032		1/2	30	7	17.5	44	
5861 1034		9/16	35	8	17.5	49	
5861 1036		5/8	38	8.5	17.5	64	
5861 1038		11/16	42	9	20*	76	
5861 1040		3/4	42	9	20*	73	

* Caution! Modified settings on torque wrench (refer to note on page 192)



14 x 18 mm

Code	size	mm	b mm	h mm	S mm	g
58214013	40	13	30	7	25	128
58214014		14	35	8	25	129
58214015		15	35	8	25	132
58214016		16	38	9	25	140
58214017		17	38	9	25	136
58214018		18	42	10	25	147
58214019		19	42	10	25	147
58214021		21	50	11	25	171
58214022		22	50	11	25	165
58214024		24	53	12	25	167
58214025		25	53	12	25	175
58214027		27	60	13	30*	219
58214030		30	66	14	30*	245
58214032		32	66	14	32.5*	246
58214034		34	66	14	32.5*	239
58214036		36	74	15	32.5*	275
58214038		38	74	15	32.5*	265
58214041		41	82	15	36.5*	307

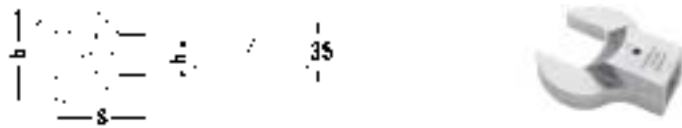
14 x 18 mm.

Code	size	"	b mm	h mm	S mm	g
58614028	a/40	7/16	30	7	25	127
58614032		1/2	30	7	25	125
58614034		9/16	35	8	25	129
58614036		5/8	38	9	25	136
58614038		11/16	42	10	25	148
58614040		3/4	42	10	25	144
58614042		13/16	50	11	25	171
58614044		7/8	50	11	25	165
58614046		15/16	53	12	25	177
58614048		1	60	13	30*	224
58614052		1 1/8	66	14	30*	258

* Caution! Modified settings on torque wrench (refer to note on page 192)

731 Open ended shell tools

registered design.
24.5 x 28 mm



Code	size	mm	b mm	h mm	S mm	g
58218024	80	24	50	13	95	601
58218027		27	56	14	95	620
58218030		30	63	15	95	655
58218032		32	67	15	95	670
58218034		34	72	15	95	699
58218036		36	74	15	95	740
58218041		41	84	16	95	810
58218046		46	94	17	95	867
58218050		50	104	18	95	1013
58218055		55	114	19	95	1150
58218060		60	124	20	95	1330

732 Ring insert tools

AS-drive

9 x 12 mm



Code	size	mm	b mm	h mm	S mm	g
58221007	10	7	13	8	17.5	37
58221008		8	14.2	8	17.5	40
58221010		10	17.2	9	17.5	44
58221011		11	18.5	9	17.5	41
58221012		12	20.5	11	17.5	49
58221013		13	21.5	11	17.5	56
58221014		14	22.5	11	17.5	52
58221015		15	24.5	12	17.5	52
58221016		16	26	12	17.5	54
58221017		17	27	13	17.5	59
58221018		18	28	13	17.5	56
58221019		19	30.5	13	17.5	65
58221021		21	33	15	17.5	71
58221022		22	34.5	15	17.5	74

9 x 12 mm

Code	size	"	b mm	h mm	S mm	g
58621016	a/10	1/4	13	8	17.5	36
58621020		5/16	14.2	8	17.5	37
58621024		3/8 1)	17.2	9	17.5	37
58621028		7/16	18.5	9	17.5	40
58621032		1/2	21.5	11	17.5	53
58621034		9/16	22.5	11	17.5	52
58621036		5/8	26	12	17.5	54
58621038		11/16	28	13	17.5	58
58621040		3/4	30.5	13	17.5	58
58621042		13/16	33	15	17.5	68
58621044		7/8	34.5	15	17.5	69

1) For Volvo aero-engines, types "JAS"

14 x 18 mm

Code	size	mm	b mm	h mm	S mm	g
58224013	40	13	22.5	11	25	130
58224014		14	23	11	25	123
58224015		15	24	11	25	128
58224016		16	25.5	12	25	133
58224017		17	27	12	25	135
58224018		18	29	13	25	134
58224019		19	30.5	13	25	138
58224021		21	33	15	25	144
58224022		22	34.5	15	25	145
58224024		24	37.5	15	25	153
58224027		27	42.5	17	25	162
58224028		28	45.5	19	25	175
58224030		30	46	19	25	182
58224032		32	47.5	19	25	181
58224034		34	52	19	28*	210
58224036		36	54	19	28*	203
58224041		41	60	20	30*	240

* Caution! Modified settings on torque wrench (refer to note on page 192)

14 x 18 mm

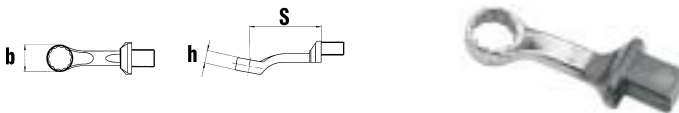
Code	size	"	b mm	h mm	S mm	△△ g
58624032	a/40	1/2	22.5	11	25	122
58624034		9/16	23	11	25	122
58624036		5/8	25.5	12	25	134
58624038		11/16	29	13	25	132
58624040		3/4	30.5	13	25	138
58624042		13/16	33	15	25	142
58624044		7/8	34.5	15	25	147
58624046		15/16	37.5	15	25	151
58624048		1	41	17	25	160

732 Ring insert tools



Caution! Modified settings on torque wrench (refer to note on page 192). HPQ high performance steel. Ring end is chrome plated, square drive is gunmetal finish.

9 x 12 mm



Code	size	"	b mm	h mm	S mm	△△ g
58621116	aL/10	1/4	10.2	5.2	50	42
58621120		5/16	11.8	6.4	50	43
58621124		3/8	14.6	7	50	46
58621128		7/16	16.7	8	50	48
58621132		1/2	18.5	8.7	50	42
58621134		9/16	20.7	9.5	50	60
58621136		5/8	22.6	10.5	50	62

For assembling and dismantling aero-engines.

732 Ring insert tools



9 x 12 mm

Caution! Modified settings on torque wrench (refer to note on p. 192). This insert tool has the same extension length as insert tool No 725L/5 (see p. 181) and square-drive insert tool No 734L/5 (see p. 182)



Code	size	mm	b mm	h mm	S mm	△△ g
58620007	G/10	7	11.5	6	45	31
58620008		8	12.4	6	45	33
58620009		9	14	8	45	40
58620010		10	15.6	8	45	44
58620013		13	19.3	9.2	45	60

Code	size	"	b mm	h mm	S mm	△△ g
58621216	aG/10	1/4	10.4	6	45	28
58621220		5/16	12.4	6	45	31
58621224		3/8	14.9	8	45	42
58621228		7/16	17	8	45	43
58621232		1/2	19	9.2	45	58
58621234		9/16	21	9.2	45	58
58621236		5/8	23	12	45	74

for assembling and dismantling aero-engines.

Tool holder

with tool carrier to receive insert tools (without torque function).



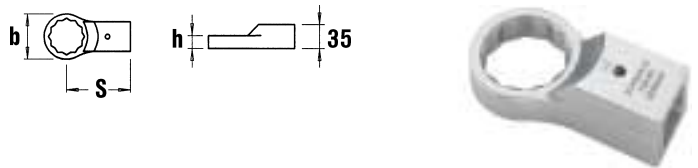
Code	No	mm	L mm	△△ g
18200001	1820	9 x 12	382.5	490
18210001	1821	14 x 18	575	720

732 Ring insert tools



registered design

24.5 x 28 mm



Code	size	"	b mm	h mm	S mm	△△ g
58228024	80	24	36	15	95	605
58228027		27	40.5	15	95	610
58228030		30	46	16	95	630
58228032		32	49	16	95	635
58228034		34	52	17	95	650
58228036		36	54	17	95	650
58228041		41	61	18	95	675
58228046		46	66	19	95	720
58228050		50	75	20	95	803
58228055		55	84	21	95	889
58228060		60	93	22	95	995

Code	size	"	b mm	h mm	S mm	△△ g
58628046	a/80	15/16 ¹⁾	36	14	95	604
58628050		1 1/16 ¹⁾	40.5	14	95	608

¹⁾ for jet engine pins (Airbus A320/A321)

732TX TORX® insert tools

9 x 12 mm



Code	size	size	b mm	h mm	S mm	△△ g
58291006	10	E6	13	8	17.5	40
58291008		E8	14.2	8	17.5	45
58291010		E10	17.2	9	17.5	45
58291012		E12	18.5	9	17.5	50
58291014		E14	21.5	11	17.5	60

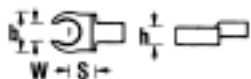
14 x 18 mm

Code	size	size	b mm	h mm	S mm	△△ g
58294014	40	E14	22.5	11	25	130
58294018		E18	24	11	25	135
58294020		E20	29	13	25	150
58294024		E24	30.5	13	25	150

733 Open ring insert tools

AS-drive

9 x 12 mm



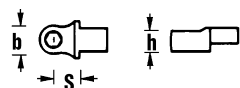
Code	size	mm	b mm	h mm	W mm	S mm	Δg
5823 1010	10	10	21.5	11	7.1	17.5	57
5823 1011	11	11	22.5	11	8.6	17.5	55
5823 1012	12	12	24.5	12	9	17.5	59
5823 1013	13	13	26	12	10	17.5	55
5823 1014	14	14	27	13	11	17.5	60
5823 1016	16	16	30.5	13	13	17.5	65
5823 1017	17	17	31.5	13	14	17.5	64
5823 1018	18	18	33	15	14.8	17.5	74
5823 1019	19	19	34	15	15.8	17.5	80
5823 1021	21	21	37.5	15	16.2	20*	88
5823 1022	22	22	38.5	15	17	20*	92
5823 1024	24	24	40	15	18	20*	75

* Caution! Modified settings on torque wrench (refer to note on page 192)

Code	size	"	b mm	h mm	W mm	S mm	Δg
5863 1024	a/10	3/8	21.5	11	7.1	17.5	55
5863 1028		7/16	22.5	11	8.6	17.5	56
5863 1032		1/2	26	12	9.5	17.5	58
5863 1034		9/16	27.5	13	11	17.5	59
5863 1036		5/8	30.5	13	12.7	17.5	61
5863 1038		11/16	33	15	14	17.5	48
5863 1040		3/4	34	15	15.8	17.5	76

736 BIT holder insert tools

Internal hex drive with a collar-thrust spring (registered design). Bits are easy to insert, lock securely in position and can be removed just as easily; even hex bits with a wide groove (Type E, DIN 3126/ISO 1173).

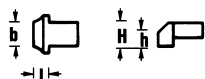


Code	inside size	mm	b mm	h mm	S mm	Δg	
5826 1010	10 D 8	5/16	9 x 12	16	12.5	17.5	47
5826 2610	10-1 D 6.3	1/4	9 x 12	14	10	17.5	45
5826 1040	40 D 8	5/16	14 x 18	16	12.5	25	112

inside ○ DIN 3126/ISO 1173

737 Blank end insert tools

gun finish.

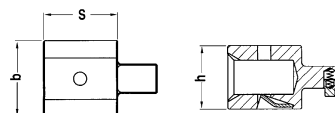


Code	size	Welding surface h x b mm	mm	H mm	L mm	Δg
5827 0010	10	8 x 14	9 x 12	14.5	8	30
5827 0040	40	11 x 25	14 x 18	21.5	12	98

7370/10 Adaptor



for using insert tools with an outer square drive of 14 x 18 mm on torque wrenches with an internal square drive of 9 x 12 mm. Long-term loading of the adaptor is restricted to 100 N m. Caution! Modified settings on torque wrench (refer to note on p. 192).

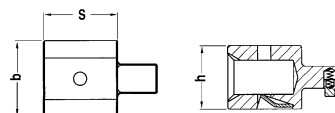


Code	mm	mm	b mm	h mm	S mm	Δg
5829 0010	9 x 12	14 x 18	31	26	30.5	114

7370/40 Adaptor



for using insert tools with an outer square drive of 9 x 12 mm on torque wrenches with an internal square drive of 14 x 18 mm. Long-term loading of the adaptor is restricted to 100 N m. Caution! Modified settings on torque wrench (refer to note on p. 192).

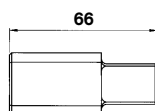


Code	mm	mm	b mm	h mm	S mm	Δg
5829 0040	14 x 18	9 x 12	28	21	21.5	115

7370/40-1 Adaptor



for using shell tools with an internal square drive of 24.5 x 28 mm on torque wrenches with an internal square drive of 14 x 18 mm. Long-term loading of the adaptor is restricted to 650 N m. Caution! Modified settings on torque wrench (refer to note on p. 192).



Code	mm	mm	b mm	h mm	Δg
5829 0041	14 x 18	24.5 x 28	28	24	251

7370/80 Shell adaptor

registered design, for attaching 14 x 18 mm insert tools. Load capacity up to 650 N m. Caution! Modified settings on torque wrench (refer to note on p. 192).



Code	mm	mm	b mm	h mm	S mm	Δg
5829 0080	24.5 x 28	14 x 18	36	26	70	281

Electronic torque tester for torque wrenches Sensotork 7707 W For complete calibration systems, see p. 167.

Compact workshop-based torque tester for easy adaptation by replacement of the transducers. High degree of accuracy (from 20-100 % of the rated value ± 0.25 % display deviation from actual measured value, up to 20 % of rated value ± 1 %) thanks to flat transducer and conversion and digitalisation of readings within the transducer.

High degree of safety through display showing actual torque read-off where clicking torque wrenches are used.

7707 W Workshop torque tester Sensotork

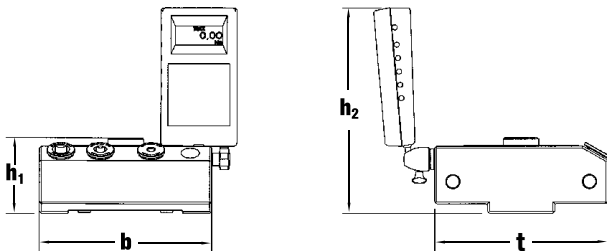


Electronic workshop torque tester for torque wrenches, consisting of:

- transducer (registered design)
- holder
- display unit (registered design)
- tripod for display unit (with 1.5 m cable)
- spiral cable
- mains adaptor (230 V) or direct connection to 12 V in-car supply is possible
- square drive adaptor (No 7707-2W, No 7707-3W)
- kit for attaching the unit to a workbench or wall in a horizontal or vertical testing position

for clockwise and anticlockwise use. Units of measurement: N m, ft.lb, in.lb. The easily interchangeable transducers are attached to the holder by means of a QuickRelease safety lock. Low lateral forces thanks to low-profile transducers, automatic detection of the transducer, flexible and user friendly because the unit can be used horizontally or vertically and the display unit can be placed in many positions, additional tripod with 1.5 m cable for mounting the display unit to facilitate visual monitoring when using longer torque wrenches, especially broad measuring range from 2% to 100% of rated value (< 1% at 1100 N m). Readings can be transferred to PC via the USB cable (no separate power supply needed, power comes from PC). While individual transducers are being recalibrated, the torque tester itself remains on-site for further use. Wide range of application (-20°C to +60°C). Meets DIN 51309, Class 2. With certificate. Supplied in sturdy plastic case.

5



Code	No	Capacity N m	Capacity ft.lb	Capacity in.lb	Ø "	b mm	h ₁ mm	h ₂ mm	t mm	ΔΔ g	ΔΔ g with box
9652 1071	7707-1W	0.2 – 10	0.15 – 7.4	1.8 – 88.5	1/4	180	79	215	180	6255	8255
9652 1072	7707-2W ¹⁾	2 – 100	1.5 – 74	17.7 – 885	3/8	180	79	215	180	7025	10000
9652 1073	7707-3W ²⁾	10 – 1100	7.4 – 811.5	88.5 – 9736	3/4	180	79	215	180	7495	10610

¹⁾ with square drive adaptor No 409M (1/4" ○ x 3/8" ■)

²⁾ with square drive adaptors No 7787 (1/4" ○ x 3/4" ■), No 7788 (3/8" ○ x 3/4" ■), No 7789 (1/2" ○ x 3/4" ■)

Accessories for workshop torque tester

7721-7723 Transducers



registered design, high degree of accuracy thanks to conversion and digitalisation of readings within the transducer itself. Not susceptible to lateral forces due to low-profile construction. Within the range of 20-100 % of rated value ± 0.25 % display deviation value from actual torque reading, up to 20 % of rated value, ± 1 %.

Can also be used as part of a calibration system (see p. 167).



Code	No	Capacity N m	Capacity ft.lb	Capacity in.lb	Ø "	ΔΔ g
52 10 00 21	7721	0.2 - 10	0.15 - 7.4	1.8 - 88.5	1/4	1735
52 10 00 22	7722	2 - 100	1.5 - 74	17.7 - 885	3/8	2486
52 10 00 23	7723	10 - 1100	7.4 - 811.5	88.5 - 9736	3/4	3100

7750 Display unit

registered design, for displaying the actual torque as measured. Units of measurement: N m, ft.lb, in.lb. Modes of operation: track, peak hold, first peak (only with manual operation), additional display of actual torque applied with clicking torque wrenches. Swivels to any desired position thanks to universal ball-joint.



Code	ΔΔ g
52 10 00 50	325

7757+7731 USB cable and software

Connection between transducer and PC, for evaluating data on the PC.



Code	L m	ΔΔ g
96 58 36 23	1.5	210

7751 Jack cable

Connection between transducer and USB adaptor or display unit.



Code	L m	ΔΔ g
52 11 00 51	1.5	50

7753 USB adaptor with USB cable

For connecting up to 5 transducers to the PC for evaluating your data



Code	L mm	b mm	h mm	ΔΔ g
52 11 00 53	125	65	41	230

7752 Spiral cable

Connection between transducer and display unit or USB adaptor with jacks at both ends, 90° angled.



Code	ΔΔ g
52 11 00 52	35

7755 Mains adaptor

Input:
230 V AC (No 7755/1)
110 V AC (No 7755/2)
Output: 12 V DC



Code	No	Volt	ΔΔ g
52 11 00 54	7755/1	230	385
52 11 00 55	7755/2	110	357

409M Square drive adaptor

1/4" socket x 3/8" plug (6.3 x 10 mm).



Code	L mm	Ø mm	ΔΔ g	Box
11 03 00 10	13	25	14	1

7787 Square drive adaptor

1/4" socket x 3/4" plug (6.3 x 20 mm).



Code	ΔΔ g
58 52 10 87	41

7788 Square drive adaptor

3/8" socket x 3/4" plug
(10 x 20 mm).



Code	ΔΔ g
58 52 10 88	52

7789 Square drive adaptor

1/2" socket x 3/4" plug
(12.5 x 20 mm).



Code	ΔΔ g
58 52 10 89	42

Mechanical loaders

for torque wrenches, ensure uniform loading and precise application of exact forces. First peak is not displayed if display unit No 7750 is used.
Supplied without torque wrench and transducer.



Code	No	Capacity N m	b mm	h mm	L mm	ΔΔ kg
52 11 10 24	7540N	0.15 – 400	450	405	968	60
52 11 00 25	7541	2.5 – 1100	470	400	1170	54.5
52 11 00 26	7542	20 – 2000	600	450	2410	130
52 11 00 27	7543	20 – 2700	600	560	2600	105

7785 Adaptor flange

for mounting transducers (quick and easy change of transducers of various sizes), complements mechanical loaders for torque wrenches No 7540-7541.



Code	for transducer No	for mechanical loader No	∅ mm	h mm	ΔΔ g
58 52 10 85	7721; 7722; 7723	7540N; 7541	120	104	2715

7790-1 Testing mount

for calibrating torque screwdrivers No 760, with a swivelling steady.
Can be bolted to mechanical loader for torque wrenches No 7540N and No 7541.



Code	for mechanical loader No	L mm	b mm	h mm	ΔΔ g
58 52 10 22	7540N, 7541	178	180	400-500	6685

Mechanical torque wrench checking gauges

792 Checking Gauges for torque screwdrivers and small capacity torque wrenches

Designed for testing torque screwdriver and torque wrenches with low capacity ranges to close tolerances.

Fitted with torsion bar as measuring element and available in 3 different capacity ranges.

The easy-to-read dial gauge is protected by extended side pillars.

Guaranteed accuracy $\pm 1\%$ of highest individual capacity. With certificate.



Code	size			⌀ "	b mm	h mm	t mm	Δ g
52060001	1000	0 – 1000 cN m	10 cN m	1/4	120	175	120	5534
52060002	2000	0 – 2000 cN m	20 cN m	1/4	120	175	120	5534
52060004	4000	0 – 4000 cN m	40 cN m	1/4	120	175	120	5534

798/400 Torque wrench tester

Mechanical tester for torque wrenches, robust and inexpensive; for regular checks on torque wrenches in workshops.

Large torque range, clockwise measuring.

Measuring element: precision leaf spring.

Clear display on recessed dial gauge with fine-resolution scale.

Overload cut-out. For horizontal or vertical use.

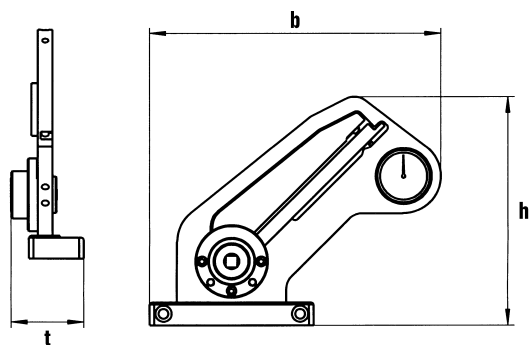
Unit can be clamped in a vice using the special foot, or screwed to a wall or workbench using the screw holes.

Guaranteed accuracy:

from 20 N m to 80 N m $\pm 1\%$ + 1 scale division

from 80 N m to 400 N m $\pm 1\%$.

Supplied in sturdy steel case, with certificate.



Code			⌀ "	b mm	h mm	t mm	Δ g
96521540	20 – 400 N m	0.5 N m	1/2	320	252	80	9240

799/400**Tester with mechanical loader for torque wrenches**

Torque wrench tester similar to No 798/400, but with an integrated mechanical loader. Allows precisely the right force to be applied to the torque wrench in an exactly tangential direction and with minimum effort, clockwise measurement.

Force is applied via a handwheel and threaded spindle acting on a tensioning arm pivoted about the centre of the point of measurement.

Carrier pin is adjustable along the arm using the adjustable handle-rest.

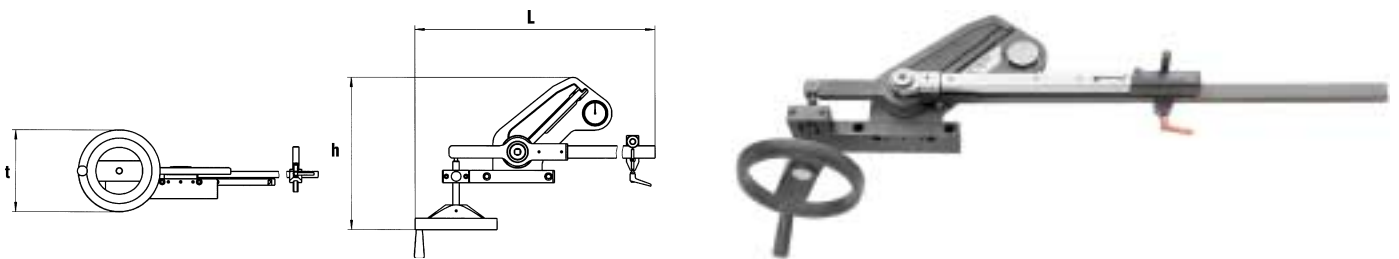
Carrier pin radius is between 140 and 760 mm. Max. pivot angle is 32°.





Unit can be clamped in a vice using the special foot, or screwed to a horizontal surface using the screw holes.

Guaranteed accuracy: from 20 N m to 80 N m $\pm 1\%$ + 1 scale division
from 80 N m to 400 N m $\pm 1\%$.

Supplied in sturdy wooden box, with certificate.

Supplied without torque wrench



Code				L mm	h mm	t mm	 kg
52 1600 40	20 – 400 N m	0.5 N m	1/2	1035	372	200	30.8

Note!

Torque testers are measuring instruments! They have to be regularly calibrated and, where necessary, adjusted, using suitable calibration equipment. We recommend recalibrating every 12 months.

5

MULTIPOWER

Makes child's play of the largest torques.

Multipower – for really “tough work”.

STAHLWILLE Multipower torque multipliers with planetary gears take the fatigue out of tightening or loosening stiff or large bolt connections. A long lever is not necessary.

STAHLWILLE Multipower multiplies human strength; steady torque transfer is easy on nuts and bolts.

Even the largest torques are transferred with ease and precision over long periods (guaranteed limit $\pm 5\%$).

Accordingly, construction materials and workmanship are extremely robust.

When combined with STAHLWILLE torque wrenches, Multipower really shows its strength.

The Multipower range extends to 5000 N m/3687 ft.lb.

Multipower tools are also available on request up to 12000 N m/8850 ft.lb.

The largest Multipower units are fitted with an anti-backlash device.

MULTIPOWER

with overload protection and planetary gears, in carrying case, with spare hex. for overload device, guaranteed accuracy $\pm 5\%$.



Code	No	N m ¹⁾	ft.lb ¹⁾	N m ²⁾	ft.lb ²⁾	Gear ratio	Torque ratio	⌀ ³⁾	■	b	h	L	ΔΔ
								"	"	mm	mm	mm	g
53 03 29 00	STW 290N	800	590	229	169	4 : 1	1 : 3.5	1/2	3/4	66	84	215	5355
53 03 29 50	STW 295N	1350	996	386	285	4 : 1	1 : 3.5	3/4	3/4	84	100	265	7020
53 03 39 10	STW 391N [*]	2000	1475	167	123	16 : 1	1 : 12	1/2	1	89	140	330	9065
53 03 39 20	STW 392N [*]	3000	2212	250	184	16 : 1	1 : 12	3/4	1	89	150	330	10200
53 03 39 30	STW 393N [*]	5000	3687	312	230	20 : 1	1 : 16	3/4	1 1/2	114	182	400	12890

^{*}) with anti-backlash device

¹⁾ max. output

²⁾ max. input

Spares for Multipower

Sun wheel with overload cutout



Code	for No	ΔΔ
		g
59 30 00 39	STW 290N	41
59 30 00 67	STW 295N	95
59 30 00 68	STW 391N	95
59 30 00 69	STW 392N	105
59 30 00 70	STW 393N	105

Replacement square drives

drilled, for STAHLWILLE-Multipower STW 390-STW 393 (until 1996).

Code	No	ΔΔ
		g
59 30 39 11	STW 391-700 [*]	89
59 30 39 21	STW 392-70	232
59 30 39 31	STW 393-70	252

^{*} also for STW 390

STW 7381* Protractor

for tightening nuts and bolts to specific angles with Multipower torque multiplier No STW 391N and STW 392N.

The protractor is attached between the Multipower torque multiplier and an IMPACT socket.

With a torque wrench, the compact unit allows angle-specific tightening of even large sized bolts with little effort.

Packaging contains: protractor, rubber ring and adaptor pin for STAHLWILLE IMPACT sockets with 1" recessed square drive.



Code	⌀	Height	ΔΔ	📦
	mm	mm	g	
54 03 00 01	88	40	145	1

^{*} to be discontinued

Note! This is how to achieve the correct tightening torque – even if you are using inserts with an extension

When you tighten fasteners using inserts whose extension length S deviates from the standard length S_F , it is necessary to recalculate the setting/display value for the torque wrench in use. Caution! If adapters are combined with inserts or special tools, use the sum of the extensions = ΣS . Where the special tool is angled to the side, W_K will have to be determined empirically.

$$W_K = \frac{M_A \times L_F}{L_K} \left[\frac{N \text{ m} \times \text{mm}}{\text{mm}} \right]$$

$$W_K = \frac{M_A \times L_F}{L_F - S_F + S \text{ (or } \Sigma S)}$$

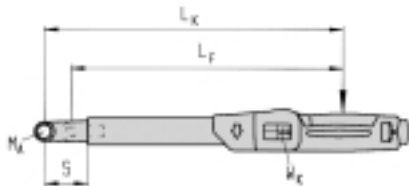
- M_A = desired tightening torque
- W = reading/setting $W = M_A$
- W_K = adjusted reading or setting value $W_K \neq M_A$
- L_F = functional length (see dimension table for torque wrenches)
- L_K = adjusted functional length $L_K = L_F - S_F + S$ (or ΣS)
- S = extension of STAHLWILLE inserts or special tools (see dimension table for inserts)
- S_F = standard extension (see dimension table for torque wrenches)
- ΣS = total of all extensions of the attached inserts $S_{\text{adapter}} + S_{\text{insert}} + \dots$

Example 1: adjusted setting value (1 insert tool)

Torque wrench No 730N/20 combined with ring insert tool No 732/40 size 36 mm

Required tightening torque for the screw $M_A = 190 \text{ N m}$

Dimension table for torque wrenches: $L_F = 424.5 \text{ mm}$, $S_F = 25 \text{ mm}$
 Dimension table for ring insert tools: $S = 28 \text{ mm}$



→ $S \neq S_F$
 → $W \neq M_A$

$$W_K = \frac{M_A \times L_F}{L_F - S_F + S} = \frac{190 \text{ N m} \times 424.5 \text{ mm}}{424.5 \text{ mm} - 25 \text{ mm} + 28 \text{ mm}} = \frac{190 \text{ N m} \times 424.5 \text{ mm}}{427.5 \text{ mm}}$$

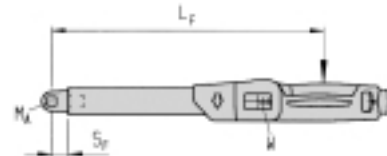
Adjusted setting value $W_K = 188.7 \text{ N m}$ → value to set = 189 N m

Normal situation

Torque wrench No 730N/10 combined with square drive insert tool No 734/5 and socket size 13 mm.

Required tightening torque for the screw $M_A = 40 \text{ N m}$

Dimension table for torque wrenches: $L_F = 336 \text{ mm}$, $S_F = 17.5 \text{ mm}$
 Dimension table for square drive insert tools: $S = 17.5 \text{ mm}$



→ $S = S_F$
 → $W = M_A$

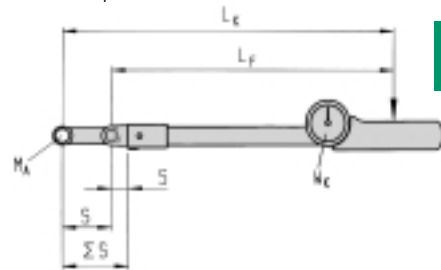
No adjustment to setting value required on torque wrench.

Example 2: adjusted reading (insert tool and adapter)

Torque wrench No 71/2 combined with square drive insert tool No 734/5 and adapter No 447 size 10 mm

Required tightening torque for the screw $M_A = 25 \text{ N m}$

Dimension table for torque wrenches: $L_F = 250 \text{ mm}$, $S_F = 17.5 \text{ mm}$
 Dimension table for square drive insert tools: $S = 17.5 \text{ mm}$
 Dimension table for adapters: $S = 50.8 \text{ mm}$



→ $\Sigma S \neq S_F$
 → $W \neq M_A$

$$W_K = \frac{M_A \times L_F}{L_F - S_F + \Sigma S} = \frac{25 \text{ N m} \times 250 \text{ mm}}{250 \text{ mm} - 17.5 \text{ mm} + 17.5 \text{ mm} + 50.8 \text{ mm}} = \frac{25 \text{ N m} \times 250 \text{ mm}}{300.8 \text{ mm}}$$

Adjusted reading $W_K = 20.8 \text{ N m}$

... and this is what it looks like in the catalogue.

730N Basic wrenches with tool carrier for Insert tools

Code	size	range	range	range	range	range	range	range	range	range	range		
50 18 10 05	5	10 - 50 N m	7 - 37 ft.lb	5 ft.in	1 ft.lb	0.25 N m	9 x 12	20	23	330	280.0	17.5	106
50 18 10 10	10	20 - 100 N m	15 - 75 ft.lb	10 ft.in	2.5 ft.lb	0.5 N m	9 x 12	28	33	386	336	17.5	121
50 18 10 12	12	25 - 130 N m	20 - 95 ft.lb	13 ft.in	3 ft.lb	0.5 N m	14 x 18	25	33	421	379	25	136
50 18 10 20	20	40 - 200 N m	30 - 150 ft.lb	10 ft.in	3 ft.lb	1 N m	14 x 18	28	35	467	424.5	25	143
50 18 10 40	40	80 - 400 N m	60 - 300 ft.lb	20 ft.in	15 ft.lb	2 N m	14 x 18	28	33	607	564.5	25	168
50 18 10 80	80	160 - 800 N m	100 - 600 ft.lb	20 ft.in	30 ft.lb	2.5 N m	14 x 18	30	35	691	648	25	180
50 06 10 06	a/5	7 - 37 ft.lb	90 - 450 in.lb	1 ft.lb	50 in.lb	2.5 in.lb	9 x 12	28	33	330	280.0	17.5	106
50 06 10 10	a/10	15 - 75 ft.lb	180 - 900 in.lb	2.5 ft.lb	100 in.lb	5 in.lb	9 x 12	28	33	386	336	17.5	121
50 06 10 20	a/20	30 - 150 ft.lb	360 - 1800 in.lb	5 ft.lb	100 in.lb	10 in.lb	14 x 18	28	35	467	424.5	25	143
50 06 10 40	a/40	60 - 300 ft.lb	720 - 3600 in.lb	20 ft.lb	100 in.lb	3 ft.lb	14 x 18	28	33	607	564.5	25	168

732 Ring insert tools

Code	size	OC mm	h mm	h mm	S mm	W g
50 22 40 13	40	13	22.5	11	25	127
50 22 40 14	40	14	23	11	25	129
50 22 40 15	40	15	24	11	25	130
50 22 40 16	40	16	25.5	12	25	135
50 22 40 17	40	17	27	13	25	136
50 22 40 18	40	18	28	13	25	144
50 22 40 19	40	19	30.5	15	25	145
50 22 40 20	40	20	31.5	15	25	153
50 22 40 21	40	21	34.5	15	25	162
50 22 40 22	40	22	37.5	17	25	175
50 22 40 24	40	24	42.5	19	25	182
50 22 40 27	40	27	45.5	19	25	191
50 22 40 30	40	30	46	19	25	210
50 22 40 32	40	32	47.5	19	25	210
50 22 40 34	40	34	50	18	25	233
50 22 40 36	40	36	54	18	25	253
50 22 40 41	40	41	60	20	30*	240

Required tightening torque for the screw $M_A = 190 \text{ N m}$
 Required setting value W_K

$$W_K = \frac{M_A \times L_F}{L_F - S_F + S} = \frac{190 \text{ N m} \times 424.5 \text{ mm}}{424.5 \text{ mm} - 25 \text{ mm} + 28 \text{ mm}}$$

$W_K = 188.7 \text{ N m}$
 Adjusted setting value on torque wrench No 730N/20: 189 N m

Ratchet spare parts sets for torque wrenches 721/15-80

Code	No	Content	g
59 19 1005	7210/5	For ratchet/torque wrench No 721/5 1 Pinion, 1 Pawl, 1 switch-over button and pin, 1 Ball, 1 Compression Spring, 2 Screws	53
19040000	5120 + 7210/15	For ratchet/torque wrench No 721/15 1 Pinion, 1 Pawl, 1 Lever, 1 Lever Pin, 1 Ball, 1 Compression Spring, 2 Screws	127
59 19 1030	7210/30	For ratchet/torque wrench No 721/30 1 Pinion, 1 Pawl, 1 Lever, 1 Lever Pin, 1 Ball, 1 Compression Spring, 2 Screws	134
59 19 1080	7210/80	For ratchet/torque wrench No 721Nf/80, 721Nf/100, 735/80 1 Pinion, 2 Pawls, 2 spring contact points, 2 Compression Springs	448

Sets of spare parts for ratchet insert tools No 735

7350/5 Set of spare parts

Content:
1 Pinion, 1 Pawl, 1 Switching disk, 1 Spring, 3 Screws

Code	for No	g	g	g
59 25 1005	735/5	85	1	

for ratchets from 12/97

7350/10 Set of spare parts

Content:
1 Pinion, 1 Pawl, 1 Switching disk, 1 Spring, 3 Screws

Code	for No	g	g	g
59 25 1010	735/10	96	1	

for ratchets from 12/97

7350/20 Set of spare parts

Content:
1 Pinion, 1 Pawl, 1 Switching disk, 1 Spring, 3 Screws

Code	for No	g	g	g
59 25 1020	735/20	146	1	

for ratchets from 4/96

7350/40 Set of spare parts

Content:
1 Pinion, 1 Pawl, 1 Switching disk, 1 Spring, 3 Screws

Code	for No	g	g	g
59 25 1040	735/40	219	1	

for ratchets from 5/97

70V Square drive units

for torque wrenches and insert tools.



Code	size	for No	a "	b "	L mm	g	g	g
59010001	1	71...V/1	1/4	1/4	17.5	5	5	
59010014	11	734/4	3/8	1/4	22	12	5	
59010003	3	734/5	3/8	3/8	25.8	17	5	
59010005	5	734/10	3/8	1/2	30	28	5	
59010011	502 1/2	720/30; 734/20	1/2	1/2	33.5	39	5	
59010007	7	721/30	1/2	1/2	44.3	52	5	
59010008	8	734/40	3/4	3/4	52.2	138	5	
59010015	12	720Nf/80; 721Nf/80+100	3/4	3/4	65	179	1	

Friction coefficient classes with guide values for different materials/surfaces and lubrication states in bolted joints

Friction coefficient class	Range for μ_G and μ_K	Selection of typical examples for	
		Material/surfaces	Lubricants
A	0.04 to 0.10	metallically bright, black oxide, phosphated, galvanic coatings such as Zn, Zn/Fe, Zn/Ni, Zinc laminated coatings	solid lubricants, such as MoS ₂ , graphite, PTFE, PA, PE, PI in lubricating varnishes, as top coats or in pastes; liquefied wax, wax dispersions
		metallically bright, black oxide, phosphated, galvanic coatings such as Zn, Zn/Fe, Zn/Ni, Zinc laminated coatings, Al and Mg alloys	solid lubricants, such as MoS ₂ , graphite, PTFE, PA, PE, PI in lubricating varnishes, as top coats or in pastes; liquefied wax, wax dispersions, greases; oils; delivery state
B	0.08 to 0.16	hot-galvanized	MoS ₂ ; graphite; wax dispersions
		organic coatings	with integrated solid lubricant or wax dispersion
		austenitic steel	solid lubricants or waxes; pastes
C	0.14 to 0.24	austenitic steel	wax dispersions, pastes
		metallically bright, phosphated	delivery state (lightly oiled)
		galvanic coatings such as Zn, Zn/Fe, Zn/Ni, Zinc laminated coatings, adhesive	none
D	0.20 to 0.35	austenitic steel	oil
		galvanic coatings such as Zn, Zn/Fe, hot-galvanized	none
E	≥ 0.30	galvanic coatings such as Zn, Zn/Fe, austenitic steel, Al, Mg alloys	none

Approximate values for static friction coefficients μ_T at the interface

Material combination	Static friction coefficient in the state	
	dry	lubricated
Steel – steel/cast steel	0.1 to 0.23	0.07 to 0.12
Steel – gray cast iron	0.12 to 0.24	0.06 to 0.1
Gray cast iron – gray cast iron	0.15 to 0.3	0.2
Bronze – steel	0.12 to 0.28	0.18
Gray cast iron – bronze	0.28	0.15 to 0.2
Steel – copper alloy	0.07	
Steel – aluminum alloy	0.1 to 0.28	0.05 to 0.18
Aluminum – aluminum	0.21	

Assembly preload F_{MTab} and tightening torque M_A with $v = 0.9$ for **shank bolts** with metric standard thread according to DIN ISO 262; head dimensions of hexagonal bolts according to DIN EN ISO 4014 to 4018, hexalobular external driving head bolts according to DIN 34 800 or cylindrical bolts according to DIN EN ISO 4762 and hole "medium" according to DIN EN 20 273

Size	Strength Grade	Assembly preload F_{MTab} in kN for $\mu_G =$							Tightening torque M_A in Nm for $\mu_K = \mu_G =$						
		0.08	0.10	0.12	0.14	0.16	0.20	0.24	0.08	0.10	0.12	0.14	0.16	0.20	0.24
M 4	8.8	4.6	4.5	4.4	4.3	4.2	3.9	3.7	2.3	2.6	3.0	3.3	3.6	4.1	4.5
	10.9	6.8	6.7	6.5	6.3	6.1	5.7	5.4	3.3	3.9	4.6	4.8	5.3	6.0	6.6
	12.9	8.0	7.8	7.6	7.4	7.1	6.7	6.3	3.9	4.5	5.1	5.6	6.2	7.0	7.8
M 5	8.8	7.6	7.4	7.2	7.0	6.8	6.4	6.0	4.4	5.2	5.9	6.5	7.1	8.1	9.0
	10.9	11.1	10.8	10.6	10.3	10.0	9.4	8.8	6.5	7.6	8.6	9.5	10.4	11.9	13.2
	12.9	13.0	12.7	12.4	12.0	11.7	11.0	10.3	7.6	8.9	10.0	11.2	12.2	14.0	15.5
M 6	8.8	10.7	10.4	10.2	9.9	9.6	9.0	8.4	7.7	9.0	10.1	11.3	12.3	14.1	15.6
	10.9	15.7	15.3	14.9	14.5	14.1	13.2	12.4	11.3	13.2	14.9	16.5	18.0	20.7	22.9
	12.9	18.4	17.9	17.5	17.0	16.5	15.5	14.5	13.2	15.4	17.4	19.3	21.1	24.2	26.8
M 7	8.8	15.5	15.1	14.8	14.4	14.0	13.1	12.3	12.6	14.8	16.8	18.7	20.5	23.6	26.2
	10.9	22.7	22.5	21.7	21.1	20.5	19.3	18.1	18.5	21.7	24.7	27.5	30.1	34.7	38.5
	12.9	26.6	26.0	25.4	24.7	24.0	22.6	21.2	21.6	25.4	28.9	32.2	35.2	40.6	45.1
M 8	8.8	19.5	19.1	18.6	18.1	17.6	16.5	15.5	18.5	21.6	24.6	27.3	29.8	34.3	38.0
	10.9	28.7	28.0	27.3	26.6	25.8	24.3	22.7	27.2	31.8	36.1	40.1	43.8	50.3	55.8
	12.9	33.6	32.8	32.0	31.1	30.2	28.4	26.6	31.8	37.2	42.2	46.9	51.2	58.9	65.3
M 10	8.8	31.0	30.3	29.6	28.8	27.9	26.3	24.7	36	43	48	54	59	68	75
	10.9	45.6	44.5	43.4	42.2	41.0	38.6	36.2	53	63	71	79	87	100	110
	12.9	53.3	52.1	50.8	49.4	48.0	45.2	42.4	62	73	83	93	101	116	129
M 12	8.8	45.2	44.1	43.0	41.9	40.7	38.3	35.9	63	73	84	93	102	117	130
	10.9	66.3	64.8	63.2	61.5	59.8	56.3	52.8	92	108	123	137	149	172	191
	12.9	77.6	75.9	74.0	72.0	70.0	65.8	61.8	108	126	144	160	175	201	223
M 14	8.8	62.0	60.6	59.1	57.5	55.9	52.6	49.3	100	117	133	148	162	187	207
	10.9	91.0	88.9	86.7	84.4	82.1	77.2	72.5	146	172	195	218	238	274	304
	12.9	106.5	104.1	101.5	98.8	96.0	90.4	84.8	171	201	229	255	279	321	356
M 16	8.8	84.7	82.9	80.9	78.8	76.6	72.2	67.8	153	180	206	230	252	291	325
	10.9	124.4	121.7	118.8	115.7	112.6	106.1	99.6	224	264	302	338	370	428	477
	12.9	145.5	142.4	139.0	135.4	131.7	124.1	116.6	262	309	354	395	433	501	558
M 18	8.8	107	104	102	99	96	91	85	220	259	295	329	360	415	462
	10.9	152	149	145	141	137	129	121	314	369	421	469	513	592	657
	12.9	178	174	170	165	160	151	142	367	432	492	549	601	692	769
M 20	8.8	136	134	130	127	123	116	109	308	363	415	464	509	588	655
	10.9	194	190	186	181	176	166	156	438	517	592	661	725	838	933
	12.9	227	223	217	212	206	194	182	513	605	692	773	848	980	1092
M 22	8.8	170	166	162	158	154	145	137	417	495	567	634	697	808	901
	10.9	242	237	231	225	219	207	194	595	704	807	904	993	1151	1284
	12.9	283	277	271	264	257	242	228	696	824	945	1057	1162	1347	1502
M 24	8.8	196	192	188	183	178	168	157	529	625	714	798	875	1011	1126
	10.9	280	274	267	260	253	239	224	754	890	1017	1136	1246	1440	1604
	12.9	327	320	313	305	296	279	262	882	1041	1190	1329	1458	1685	1877
M 27	8.8	257	252	246	240	234	220	207	772	915	1050	1176	1292	1498	1672
	10.9	367	359	351	342	333	314	295	1100	1304	1496	1674	1840	2134	2381
	12.9	429	420	410	400	389	367	345	1287	1526	1750	1959	2153	2497	2787
M 30	8.8	313	307	300	292	284	268	252	1053	1246	1428	1597	1754	2031	2265
	10.9	446	437	427	416	405	382	359	1500	1775	2033	2274	2498	2893	3226
	12.9	522	511	499	487	474	447	420	1755	2077	2380	2662	2923	3386	3775
M 33	8.8	389	381	373	363	354	334	314	1415	1679	1928	2161	2377	2759	3081
	10.9	554	543	531	517	504	475	447	2015	2392	2747	3078	3385	3930	4388
	12.9	649	635	621	605	589	556	523	2358	2799	3214	3601	3961	4598	5135
M 36	8.8	458	448	438	427	415	392	368	1825	2164	2482	2778	3054	3541	3951
	10.9	652	638	623	608	591	558	524	2600	3082	3535	3957	4349	5043	5627
	12.9	763	747	729	711	692	653	614	3042	3607	4136	4631	5089	5902	6585
M 39	8.8	548	537	525	512	498	470	443	2348	2791	3208	3597	3958	4598	5137
	10.9	781	765	748	729	710	670	630	3345	3975	4569	5123	5637	6549	7317
	12.9	914	895	875	853	831	784	738	3914	4652	5346	5994	6596	7664	8562

Initial (Tension) load and Tightening Torque

Initial (Tension) load F_M and Tightening Torque M_A for bolts with standard metric thread according to DIN 13, Page 43 (M 1.6–M 2.5–M 3 to M 39) and washer face dimensions as DIN 912 (DIN EN ISO 4762), DIN 931 (DIN EN 24014), DIN 934 (DIN EN 24032), DIN 912, DIN 984, DIN 7990. The values F_M and M_A shown in the tables are based on the SI-Unit N (Newton). 1 N = 0.102 kp, 1 Ncm = 0.102 kp·cm, 1 Nm = 0.102 kp·m, 1 kp = 9.81 N, 1 kp·cm = 9.81 Ncm, 1 kp·m = 9.81 Nm. The tension loads F_M shown in the above table refer to 90% utilisation of the yield limit $\delta_{0.2}$ (DIN

ISO 898 Part 1) based on tensional comparison δ_{red} , relative to appropriate thread co-efficient of friction μ_G . The Initial (Tension) load table helps to determine which quality of screw, under a given co-efficient of friction, is required to obtain a recommended initial (Tension) load F_M . To determine the Tightening Torque M_A based on 90% utilisation of the yield limit on bolts of given quality and dimension, refer to the table on the right, dependent upon bolt head friction (μ_K). To arrive at the final torque tightening figure, deduct from the tabulated figure M_A obtained, half the known tolerance of the torque wrench used. Compilation of tables and directions for their use, according to VDI 2230, Page 1.



It's all in the handle – 3KDRALL screwdrivers

The efficiency with which you use a screwdriver in your daily work, and the safety with which you work, depend to a large extent on the quality of the tool. It is not just the use of high-grade materials but also the shape that matters – in particular the shape of the handles – if you want

to stay in control. The new STAHLWILLE generation of 3KDRALL screwdrivers unites these positive qualities in a manner which is close to perfect. The result is a long-life, ergonomically designed tool providing easy working combined with maximum force transmission and safety.



3KDRALL handles are made up of three components:

- A highly resistant core
- A soft, heat-bonded inlay
- Two large contact areas with a permanent, solvent-resistant special fibre coating

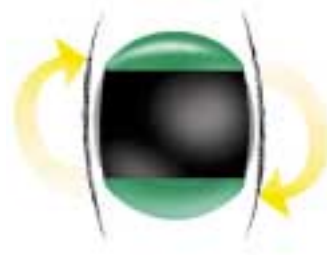
Together, these features make the 3KDRALL tools very pleasant to handle and prevent your hands from slipping off the handles or twisting, even if your hands are damp or oily.

Blade

Made of high-grade chrome alloy steel. Through-hardened and chrome-plated over nickel. Anchored firmly in the haft due to the extra-wide, forged tang. High resistance to bending.

The tip of the blade

Black, extremely tough, retains its shape. Whether you use the straight-bladed or Phillips type – the crosshatched blade tip will accurately transmit maximum force to the screw head.



The cross-sectional view shows the ergonomically-sculpted, almost square handle shape designed for maximum contact with the hand, greatest possible leverage and, as a result, maximum non-slip, positive torque transfer to the tip.



3KDRALL screwdrivers are available in sets conveniently positioned in plastic inlays or TCS safety inlays, designed for use with STAHLWILLE Tool Trolleys and Tool Boxes.



The ergonomic handles provide ease of use coupled with maximum force transmission and safety.

1st component:

Extremely resistant, impact-safe core made of black polypropylene (PPC)



2nd component:

Soft, heat-bonded inlay made of easy-to-grip thermoplastic elastomer (TPE).

3. component:

Two large gripping surfaces coated with special fibre material, permanently resistant to solvents, provide a high degree of improvement when it comes to force transmission and safety in the workplace.



Additional tommy-bar hole

When things get really tough, the additional tommy-bar hole will cope with a fair amount of torque.

4891 3K DRALL set of screwdrivers

Set of six 3K DRALL screwdrivers.

Content:

⊖ 4820: 0.6 x 3.5 x 75 mm



0.8 x 4 x 100 mm

1 x 5.5 x 125 mm

1.2 x 6.5 x 150 mm

⊕ 4830: size 1; size 2



Code	 g	
964891 10	615	1

4892 3K DRALL set of screwdrivers

Set of eight 3K DRALL screwdrivers.

Content:

⊖ 4820: 0.6 x 3.5 x 75 mm

0.8 x 4 x 100 mm


1 x 5.5 x 125 mm

1.2 x 6.5 x 150 mm

1.6 x 8 x 175 mm

⊕ 4830: size 1; size 2; size 3



Code	 g	
964892 10	745	1

4899 3K DRALL set of TORX® screwdrivers



Set of nine 3K DRALL screwdrivers for TORX® screws (TORX® TAMPER RESISTANT).

Content:

⊕ 4856: T8, T9, T10, T15, T20, T25, T27, T30, T40


(with hollow point)





Code	 g	
964899 10	513	1

TCS 4820/4830

175 x 350 x 35 mm, 7 pieces

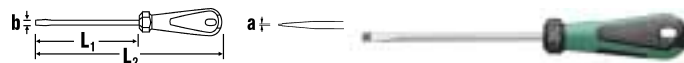
Code	 g
968381 84	555



 **No 4820** 0.6 x 3.5 x 75 mm;
0.8 x 4 x 100 mm;
1 x 5.5 x 125 mm;
1.2 x 6.5 x 150 mm

 **No 4830** sizes 1; 2; 3

4820 3K DRALL workshop screwdrivers

DIN 5265, ISO 2380, Chrome Alloy Steel, matt chrome plated, black tips.





Code	a mm	b mm	L ₁ mm	L ₂ mm	 g	
4820 1035	0.6	3.5	75	170	23	10
4820 1040	0.8	4	100	195	32	10
4820 2055	1	5.5	125	220	54	10
4820 1065	1.2	6.5	150	265	81	10
4820 1080	1.6	8	175	290	118	10
4820 1100	1.6	10	200	315	158	5
4820 2100	2	12	250	375	218	5
4820 3100	2.5	14	250	375	311	5

4830 3K DRALL cross-head screwdrivers

Phillips-Recess®, DIN 5262, ISO 8764, Chrome Alloy Steel, matt chrome plated, black tips.





Code	PH size	L ₁ mm	L ₂ mm	 g	
4830 1000	0	60	155	16	10
4830 1001	1	80	175	33	10
4830 1002	2	100	215	70	10
4830 1003	3	150	275	126	5
4830 1004	4	200	325	251	5

4840 3K DRALL cross-head screwdrivers

POZIDRIV/SUPADRIV®, DIN 5262, ISO 8764, Chrome Alloy Steel, matt chrome plated, black tips.



Code	PZ size	L ₁ mm	L ₂ mm	 g	
4840 1000	0	60	155	16	10
4840 1001	1	80	175	33	10
4840 1002	2	100	215	70	10
4840 1003	3	150	275	126	5
4840 1004	4	200	325	251	5

4856 3K DRALL TORX® screwdrivers

with hollow point
(TORX® TAMPER RESISTANT),
Chrome Alloy Steel,
matt chrome plated, black tips.



Code	size	mm	L ₁ mm	L ₂ mm	△△ g	📦
48560006	T6*	1.6	50	145	14	5
48560007	T7	2.0	50	145	14	5
48560008	T8	2.3	60	155	21	5
48560009	T9	2.5	60	155	21	5
48560010	T10	2.7	80	175	26	5
48560015	T15	3.3	80	175	28	5
48560020	T20	3.8	100	215	32	5
48560025	T25	4.4	100	215	55	5
48560027	T27	5.0	115	230	58	5
48560030	T30	5.5	115	230	63	5
48560040	T40	6.6	115	240	86	5
48560045	T45	7.8	130	255	107	5

* without hollow point

4791 DRALL set of screwdrivers

Set of seven DRALL
screwdrivers.

Content:
⊖ 4720: size 1 (0.6 x 3.5 x 75 mm)
size 2 (0.8 x 4 x 100 mm)
size 4 (1 x 5.5 x 125 mm)
size 5 (1.2 x 6.5 x 150 mm)
⊖ 4728: size 1 (0.4 x 2.5 x 50 mm)
⊕ 4730: size 1; size 2



Code	△△ g	📦
96479110	417	1

4792 DRALL set of screwdrivers

Set of nine DRALL
screwdrivers.

Content:
⊖ 4722: size 1 (1 x 5.5 x 100 mm)
size 2 (1.2 x 6.5 x 125 mm)
size 3 (1.2 x 8 x 150 mm)
size 4 (1.6 x 10 x 175 mm)
⊖ 4724: size 2 (1 x 5.5 x 25 mm)
⊖ 4728: size 1 (0.4 x 2.5 x 50 mm)
⊕ 4730: size 1
⊕ 4732: size 2
⊕ 4734: size 2



Code	△△ g	📦
96479210	745	1

4793 DRALL set of screwdrivers

Set of five DRALL
screwdrivers.

Content:
⊖ 4720: size 2 (0.8 x 4 x 100 mm)
⊖ 4722: size 1 (1 x 5.5 x 100 mm)
size 2 (1.2 x 6.5 x 125 mm)
⊕ 4730: size 1
⊕ 4732: size 2



Code	△△ g	📦
96479310	387	1

4794 DRALL set of TORX® screwdrivers

Set of nine DRALL
screwdrivers for
TORX® screws

Content: ⊕ 4750: T8, T9, T10, T15,
T20, T25, T27, T30, T40



Code	△△ g	📦
96479410	513	1

4799 DRALL set of TORX® screwdrivers

Set of seven DRALL
screwdrivers for
TORX® screws

(TORX® TAMPER RESISTANT).
Content: ⊕ 4756: T10, T15, T20,
T25, T30, T40, T45
(with hollow point)



Code	△△ g	📦
96479910	475	1

ES 4720/4730/7



175 x 350 x 33 mm, 7 pieces



Code	△△ g
96838116	544

⊖ No 4720 size 1 (0.6 x 3.5 x 75 mm);
size 2 (0.8 x 4 x 100 mm);
size 4 (1 x 5.5 x 125 mm);
size 5 (1.2 x 6.5 x 150 mm)




⊖ No 4730 sizes 1; 2; 3

83812026	Empty tray	111
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ES 4720/4722/4732/7



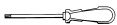
175 x 350 x 35 mm, 7 pieces

Code	g
96838133	575
 No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm)
 No 4722	size 1 (1 x 5.5 x 100 mm); size 2 (1.2 x 6.5 x 125 mm)
 No 4732	sizes 1; 2; 3
83 81 20 26 Empty tray	111

ES 4756/7





175 x 350 x 39 mm, 7 pieces

Code	g
96838118	500
 No 4756	sizes T10; T15; T20; T25; T30; T40; T45
83 81 20 39 Empty tray	110

TCS 4720/4730












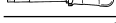
175 x 350 x 35 mm, 7 pieces

Code	g
96838178	475
 No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm); size 4 (1 x 5.5 x 125 mm); size 5 (1.2 x 6.5 x 150 mm)
 No 4730	sizes 1; 2; 3

TCS 4720/4760VDE+10767



530 x 350 x 30 mm, 27 pieces

Code	g
96830168	1925
 No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm); size 5 (1.2 x 6.5 x 150 mm); size 6 (1.6 x 8 x 175 mm); size 7 (1.6 x 10 x 200 mm); size 8 (2 x 12 x 200 mm)
 No 4724	size 2 (1 x 5.5 x 25 mm)
 No 4728	size 1 (0.4 x 2.5 x 50 mm)
 No 4730	sizes 1; 2; 3
 No 4732	size 4
 No 4734	size 2
 No 4740	sizes 0; 1; 2
 No 4744	size 1
 No 4760 VDE	size 1 (0.4 x 2.5 x 75 mm)
 No 10767/9	sizes 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm

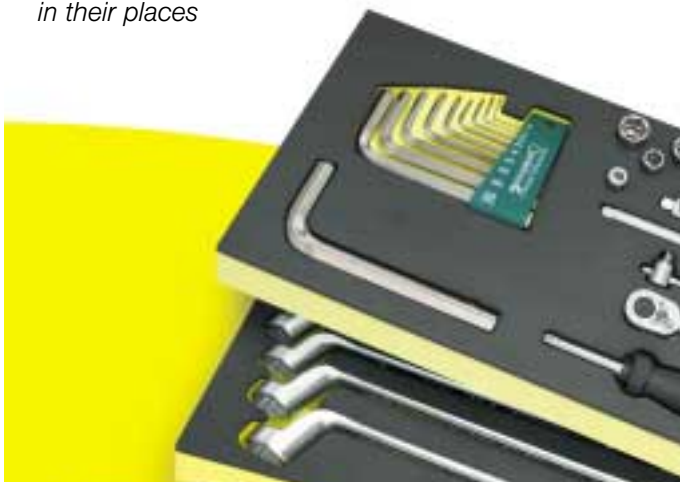
6



Tool Control System

The safety inlay system

- Designed to fit our Tool Trolleys and Tool Boxes
- With yellow signal cut-outs to show whether all tools are in their places



TCS 4720/4760VDE



530 x 350 x 40 mm, 18 pieces

Code	Δ g
96830179	1510
No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm); size 5 (1.2 x 6.5 x 150 mm); size 6 (1.6 x 8 x 175 mm); size 7 (1.6 x 10 x 200 mm); size 8 (2 x 12 x 200 mm)
No 4724	size 2 (1 x 5.5 x 25 mm)
No 4728	size 1 (0.4 x 2.5 x 50 mm)
No 4730	sizes 1; 2; 3
No 4732	size 4
No 4734	size 2
No 4740	sizes 0; 1; 2
No 4744	size 1
No 4760 VDE	size 1 (0.4 x 2.5 x 75 mm)

ST DRALL 7/104

Display stand for DRALL screwdrivers

with 104 screwdrivers DRALL.

B x H x T

410 x 220 x 370 mm

4 each \ominus No 4720:

size 7 (1.6 x 10 x 200)

size 6 (1.6 x 8 x 175)

5 each \ominus No 4720:

size 5 (1.2 x 6.5 x 150)

size 4 (1 x 5.5 x 125)

size 2 (0.8 x 4 x 100)

4 each \ominus No 4722:

size 5 (2 x 12 x 200)

size 4 (1.6 x 10 x 175)

size 3 (1.2 x 8 x 150)

5 each \ominus No 4722:

size 2 (1.2 x 6.5 x 125)

size 1 (1 x 5.5 x 100)

5 each \ominus No 4724:

size 2 (1 x 5.5 x 25)

size 1 (0.6 x 3.5 x 25)

5 each \ominus No 4728:

size 5 (1 x 5.5 x 150)

size 4 (0.8 x 4 x 125)

size 2 (0.6 x 3.5 x 75)

size 1 (0.4 x 2.5 x 50)

5 each \oplus No 4730: size 2; size 1

4 each \oplus No 4732: size 3

5 each \oplus No 4732: size 2

5 each \oplus No 4734: size 2; size 1

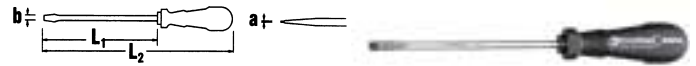


Code	Δ kg	
96820703	11.9	1

4720

\ominus Workshop screwdrivers DRALL

DIN 5263/5264, ISO 2380, Chrome Alloy Steel, chrome plated, black tips.



Code	size	a mm	b mm	L ₁ mm	L ₂ mm	Δ g	
4720 1035	1	0.6	3.5	75	160	23	10
4720 1040	2	0.8	4	100	195	32	10
4720 1055	3	1	5.5	100	195	50	10
4720 2055	4	1	5.5	125	220	54	10
4720 1065	5	1.2	6.5	150	255	81	10
4720 1080	6	1.6	8	175	290	118	10
4720 1100	7	1.6	10	200	315	169	5
4720 2100	8	2	12	250	375	218	5

4721

\ominus Workshop screwdrivers DRALL

parallel blades, as per VSM (Swiss Standard), Chrome Alloy Steel, chrome plated, black tips.



Code	size	a mm	b mm	L ₁ mm	L ₂ mm	Δ g	
4721 1025	0	0.4	2.5	80	165	22	10
4721 1035	1	0.5	3.5	90	175	24	10
4721 1040	2	0.6	4	100	185	28	10
4721 1055	3	0.8	5.5	120	215	43	10
4721 1065	4	1	6.5	140	245	79	10
4721 1080	5	1.2	8	160	275	115	10
4721 1100	6	1.6	10	180	305	162	10
4721 1130	7	2	13	200	325	193	10
4721 1160	8	2.5	16	220	345	231	10
4721 1180	9	3	18	240	365	276	10

4722

\ominus Workshop screwdrivers DRALL

DIN 5265, ISO 2380, with hexagon, Chrome Alloy Steel, chrome plated, black tips.



Code	size	a mm	b mm	L ₁ mm	L ₂ mm	Δ g	
4722 1055	1	1	5.5	100	195	55	10
4722 1070	2	1.2	6.5	125	230	84	10
4722 1090	3	1.2	8	150	265	127	10
4722 1100	4	1.6	10	175	290	158	10
4722 1120	5	2	12	200	325	231	5
4722 1130	6	2.5	14	250	375	311	5

4724**⊖ Carburettor screwdrivers DRALL**

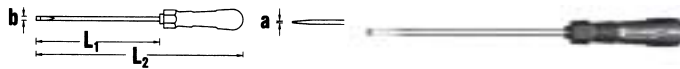
DIN 5265, ISO 2380, stubby, Chrome Alloy Steel, chrome plated, black tips.



Code	size	a mm	b mm	L ₁ mm	L ₂ mm	△▽ g	
4724 1045	1	0.6	3.5	25	80	27	10
4724 1060	2	1	5.5	25	80	32	10
4724 1080	3	1.2	8	25	80	39	10

4728**⊖ Electricians screwdrivers DRALL**

DIN 5265, ISO 2380, Chrome Alloy Steel, chrome plated, black tips.



Code	size	a mm	b mm	L ₁ mm	L ₂ mm	△▽ g	
4728 1025	1	0.4	2.5	50	125	25	10
4728 1035	2	0.6	3.5	75	160	25	10
4728 1040	3	0.6	3.5	100	185	26	10
4728 2040	4	0.8	4.0	125	210	31	10
4728 1050	5	1	5.5	150	245	53	10
4728 2050	6	1	5.5	200	295	62	10

4729**⊖ Electricians screwdrivers DRALL**

DIN 5265, ISO 2380, sleeved blades, Chrome Alloy Steel, chrome plated, black tips.



Code	size	a mm	b mm	L ₁ mm	L ₂ mm	△▽ g	
4729 1025	1	0.4	2.5	50	125	14	10
4729 1035	2	0.6	3.5	75	160	26	10
4729 2035	3	0.6	3.5	100	185	26	10
4729 1040	4	0.8	4	125	210	33	10
4729 1055	5	1	5.5	150	245	55	10
4729 3055	6	1	5.5	200	295	68	10

4730**⊕ Cross-head screwdrivers DRALL**

Phillips-Recess®, DIN 5262, ISO 8764, Chrome Alloy Steel, chrome plated, black tips.



Code	PH size	L ₁ mm	L ₂ mm	△▽ g	
4730 1000	0	60	135	16	10
4730 1001	1	80	175	33	10
4730 1002	2	100	205	70	10
4730 1003	3	150	265	126	10

4731**⊕ Cross-head screwdrivers DRALL**

Phillips-Recess®, extra long, DIN 5262, ISO 8764, Chrome Alloy Steel, chrome plated, black tips.



Code	PH size	L ₁ mm	L ₂ mm	△▽ g	
4731 1001	1	250	345	66	1
4731 1002	2	250	355	103	1

4732**⊕ Cross-head screwdrivers DRALL**

with hexagon, Phillips-Recess®, DIN 5262, ISO 8764, Chrome Alloy Steel, chrome plated, black tips.



Code	PH size	L ₁ mm	L ₂ mm	△▽ g	
4732 1001	1	80	175	36	10
4732 1002	2	100	205	81	10
4732 1003	3	150	265	144	5
4732 1004	4	200	325	251	5

4734**⊕ Cross-head screwdrivers DRALL**

Phillips-Recess®, DIN 5262, ISO 8764, stubby, Chrome Alloy Steel, chrome plated, black tips.



Code	PH size	L ₁ mm	L ₂ mm	△▽ g	
4734 1001	1	25	80	27	10
4734 1002	2	25	80	31	10

4735**⊕ Screwdrivers DRALL**

TRI-WING®, hexagonal blade, phosphatized.



Code	No	L ₁ mm	L ₂ mm	outside ● mm	△▽ g	
4735 0002	2	80	175	1/4	60	5
4735 0003	3	100	205	1/4	77	5
4735 0004	4	100	205	1/4	76	5
4735 0005	5	100	205	1/4	98	5

4736 Screwdrivers DRALL

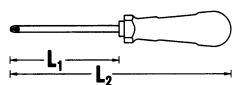
TORQ-SET®, hexagonal blade, phosphatized.



Code	No	L ₁ mm	L ₂ mm	outside "●"	△△ g	
47360002	2	80	175	1/4	59	5
47360004	4	80	175	1/4	58	5
47360006	6	100	205	1/4	76	5
47360008	8	100	205	1/4	76	5
47360010	10	100	205	1/4	77	5
47360016	1/4	150	265	5/16	133	5

4740 Cross-head screwdrivers DRALL

POZIDRIV/SUPADRIV®, DIN 5262, ISO 8764, Chrome Alloy Steel, chrome plated, black tips.



Code	PZ size	L ₁ mm	L ₂ mm	△△ g	
47401000	0	60	135	16	10
47401001	1	80	175	34	10
47401002	2	100	205	72	10
47401003	3	150	265	128	5
47401004	4	200	325	221	5

4744 Cross-head screwdrivers DRALL

POZIDRIV/SUPADRIV®, DIN 5262, ISO 8764, stubby, Chrome Alloy Steel, chrome plated, black tips.



Code	PZ size	L ₁ mm	L ₂ mm	△△ g	
47441001	1	25	80	28	10
47441002	2	25	80	34	10

4748 Ball ended hexagon drivers DRALL

for use on hexagon socket head screws, swivel angle up to 25° each side, Chrome Alloy Steel, chrome plated, black tips.



Code	mm	L ₁ mm	L ₂ mm	△△ g	
47481030	3	100	185	29	10
47481040	4	100	185	30	10
47481050	5	100	195	54	10
47481060	6	125	230	82	10
47481080	8	150	265	143	10
47481100	10	150	275	209	10
47481120	12	150	275	268	10

10507KK Ball ended hexagon drivers DRALL

for use on hexagon socket head screws, swivel angle up to 25° each side, Chrome Alloy Steel, chrome plated, black tips.



Code	mm	L ₁ mm	L ₂ mm	△△ g	
73100002	3	300	385	40	10
73100005	5	300	385	89	10

4750 TORX® screwdrivers DRALL

for inside TORX® screws, Chrome Alloy Steel, chrome plated, black tips.



Code	size	mm	L ₁ mm	L ₂ mm	△△ g	
47501006	T6	1.6	50	125	14	5
47501007	T7	2.0	50	125	14	5
47501008	T8	2.3	60	145	21	5
47501009	T9	2.5	60	145	21	5
47501010	T10	2.7	80	175	26	5
47501015	T15	3.3	80	175	28	5
47501020	T20	3.8	100	195	32	5
47501025	T25	4.4	100	195	55	5
47501027	T27	5.0	115	210	58	5
47501030	T30	5.5	115	210	63	5
47501040	T40	6.6	115	220	86	5
47501045	T45	7.8	130	235	107	5

4750L TORX® screwdrivers DRALL

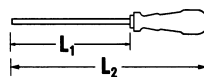
for inside TORX® screws, extra long, Chrome Alloy Steel, chrome plated, black tips.



Code	size	mm	L ₁ mm	L ₂ mm	△△ g	
47501115	T15	3.3	250	345	42	5
47501120	T20	3.8	250	345	49	5
47501125	T25	4.4	250	345	56	5
47501130	T30	5.5	250	345	94	5

4756 TORX® screwdrivers DRALL

with hollow point (TORX® TAMPER RESISTANT), Chrome Alloy Steel, chrome plated, black tips.



Code	size	mm	L ₁ mm	L ₂ mm	△△ g	
47560010	T10	2.7	80	175	27	5
47560015	T15	3.3	80	175	29	5
47560020	T20	3.8	100	195	35	5
47560025	T25	4.4	100	195	38	5
47560030	T30	5.5	115	210	60	5
47560040	T40	6.6	115	220	86	5
47560045	T45	7.8	130	235	107	5

4798 Set of reversible screwdrivers

11 pieces
 Content:
 ⊖ 0.6 x 3.5; 0.8 x 4.0; 1.0 x 5.5;
 1.2 x 6.5 mm
 ⊕ sizes 1; 2
 ⊕ sizes 3; 4; 5; 6 mm
 ⊕ sizes 3; 4; 5; 6 mm (ball end)
 ⊕ T10; T15; T20; T25; T30; T40



Code	⚖ g	📦
96479801	675	1

Electronics Screwdrivers

4797 Electronics screwdrivers set

7 pieces
 Content:
 ⊖ 4751:
 size 4 (0.3 x 1.5 x 40 mm)
 size 6 (0.4 x 2 x 60 mm)
 size 7 (0.4 x 2.5 x 75 mm)
 size 8 (0.5 x 3 x 75 mm)
 ⊕ 4752: size 00, size 0, size 1



Code	⚖ g	📦
96479710	302	1

4751 Screwdrivers for slotted screws



Code	size	a mm	b mm	L ₁ mm	L ₂ mm	⚖ g	📦
47510001	1	0.16	0.8	40	140	12	5
47510002	2	0.18	1	40	140	12	5
47510003	3	0.25	1.2	40	140	12	5
47510004	4	0.3	1.5	40	140	12	5
47510005	5	0.3	1.8	60	160	13	5
47510006	6	0.4	2	60	160	13	5
47510007	7	0.4	2.5	75	175	14	5
47510008	8	0.5	3	75	175	16	5
47510010	10	0.6	3.5	100	200	20	5
47510012	12	0.8	4	100	200	23	5

4752 Cross-head screwdrivers

Phillips-Recess®.



Code	size	L ₁ mm	L ₂ mm	⊕ M	americ. No.	∅ mm	⚖ g	📦
47520000	000	40	140	-	-	2	13	5
47520010	00	40	140	-	-	2.5	14	5
47520020	0	60	160	-2	0-1	3	16	5
47520001	1	80	180	2-3	2-4	4.5	24	5
47520011	11	150	250	2-3	2-4	4.5	33	5

4753 Hexagon socket screwdrivers



Code	⊖ mm/"	L ₁ mm	L ₂ mm	⚖ g	📦
47530007	0.7 / 0.028	40	140	14	5
47530009	0.9 / 0.035	40	140	14	5
47530013	1.3 / 0.050	40	140	14	5
47530015	1.5	50	150	14	5
47530020	2	50	150	14	5
47530025	2.5	60	160	14	5
47530030	3	60	160	16	5



VDE-insulated Screwdrivers

to DIN IEC 78 (CO) 11/VDE 0680 part 201/07.83
resp. IEC 900 1987

AC 1000 V

High quality materials and stringent tests guarantee safe use on "live" lines up to 1000 V or 1500 V DC. Individually tested at 10 000 V.

4795 VDE Screwdriver set DRALL

Set with 6 screwdrivers DRALL, safety insulated.

AC 1000 V
VDE 680 part 201

Content:

⊖ 4760 VDE:

size 1 (0.4 x 2.5 x 75 mm)

size 3 (0.6 x 3.5 x 100 mm)

size 5 (1 x 5.5 x 125 mm)

size 6 (1.2 x 6.5 x 150 mm)

⊕ 4765 VDE:

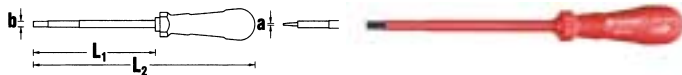
size 1, size 2



Code		
96479510	440	1

4760 VDE ⊖ Electricians screwdrivers DRALL

DIN 7437, DIN EN 60900, safety insulated, blade gun finished, Chrome Alloy Steel.



Code	size	a mm	b mm	L ₁ mm	L ₂ mm		
47601001	1	0.4	2.5	75	150	16	10
47601002	2	0.5	3	100	175	20	10
47601003	3	0.6	3.5	100	185	28	10
47601004	4	0.8	4	100	195	36	10
47601005	5	1	5.5	125	230	76	10
47601006	6	1.2	6.5	150	255	93	10
47601007	7	1.2	8	175	290	147	10
47601008	8	1.6	10	200	315	219	10

4765 VDE ⊕ Cross-head screwdrivers DRALL

Phillips-Recess®, DIN 7438, DIN EN 60900, safety insulated, blade gun finished, Chrome Alloy Steel.



Code	PH size	L ₁ mm	L ₂ mm		
47651000	0	60	135	17	10
47651001	1	80	175	36	10
47651002	2	100	205	76	10
47651003	3	150	265	134	10
47651004	4	200	325	234	10

4770 VDE ⊕ Cross-head screwdrivers DRALL

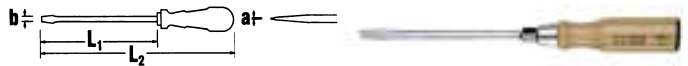
POZIDRIV/SUPADRIV®, DIN 7438, DIN EN 60900, safety insulated, blade gun finished, Chrome Alloy Steel.



Code	PZ size	L ₁ mm	L ₂ mm		
47701000	0	60	135	17	10
47701001	1	80	175	37	10
47701002	2	100	205	76	10
47701003	3	150	265	140	10
47701004	4	200	325	228	10

10541 ⊖ Engineers screwdrivers

with hexagon, DIN 475, hardwood, handle with leather cap, full length tang, Chrome Alloy Steel, chrome plated.



Code	size	a mm	b mm	L ₁ mm	L ₂ mm		
73113001	1	0.8	5.5	100	200	65	10
73113002	2	1	7	125	235	104	10
73113003	3	1.2	9	150	270	162	10
73113004	4	1.6	10	175	300	212	10
73113005	5	2	12	200	330	264	10
73113006	6	2.5	13	250	380	346	5

10554 ⊖ EURO voltage tester

built to conform to the new EN standard, tested to conform to the currently valid VDE GS standard, with plastic handle, AC 125 - 250 V.



Code	a mm	b mm	L mm		
77450001	1	3.5	190	37	10

ES 12500/7



175 x 350 x 30 mm, 7 pieces

Code		
96838170	969	
No 12500	sizes 7; 8; 9; 10; 11; 12; 13 mm	
83812085	Empty tray	103

12500

○ Nut spinners DRALL

DIN 3125 (metric),
Chrome Vanadium,
chrome plated.



Code	Ø mm	L ₁ mm	L ₂ mm	ΔΔ g	
43 09 00 03	3	125	230	68	10
43 09 00 35	3.5	125	230	72	10
43 09 00 04	4	125	230	72	10
43 09 00 45	4.5	125	230	71	10
43 09 00 05	5	125	230	73	10
43 09 00 55	5.5	125	230	73	10
43 09 00 06	6	125	230	74	10
43 09 00 07	7	125	240	106	10
43 09 00 08	8	125	240	109	10
43 09 00 09	9	125	240	110	10
43 09 00 10	10	125	240	138	10
43 09 00 11	11	125	250	169	5
43 09 00 12	12	125	250	172	5
43 09 00 13	13	125	250	173	5
43 09 00 14	14	125	250	181	5
43 09 00 15	15	125	250	192	5
43 09 00 16	16	125	250	189	5
43 09 00 17	17	125	250	199	5

12500a

○ Nut spinners DRALL

Code	Ø "	L ₁ mm	L ₂ mm	ΔΔ g	
43 49 00 08	1/8	125	230	68	10
43 49 00 10	5/32	125	230	70	10
43 49 00 12	3/16	125	230	73	10
43 49 00 14	7/32	125	230	75	10
43 49 00 16	1/4	125	240	103	10
43 49 00 18	9/32	125	240	101	10
43 49 00 20	5/16	125	240	108	10
43 49 00 22	11/32	125	240	106	10
43 49 00 24	3/8	125	240	113	10
43 49 00 28	7/16	125	250	159	5
43 49 00 32	1/2	125	250	176	5
43 49 00 34	9/16	125	250	169	5
43 49 00 36	5/8	125	250	185	5

12506

○ Nut spinners DRALL

flexible,
max. torque 8 N m.

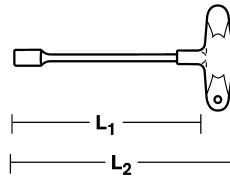


Code	Ø mm	L ₁ mm	L ₂ mm	ΔΔ g	
43 10 00 05	5	150	255	107	10
43 10 00 06	6	150	255	106	10
43 10 00 07	7	150	255	109	10
43 10 00 08	8	150	255	109	10
43 10 00 10	10	175	280	191	10

12507-2K

○ T-handled nut spinners

with 2-component T-handle, Chrome Vanadium, matt chrome plated.

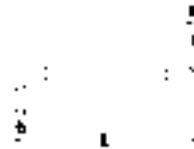


Code	Ø mm	L ₁ mm	L ₂ mm	ΔΔ g	
43 23 20 40	4	200	225	65	10
43 23 20 45	4.5	200	226	65	10
43 23 20 50	5	200	226	66	10
43 23 20 55	5.5	200	225	66	10
43 23 20 60	6	200	224	83	10
43 23 20 70	7	200	234	133	10
43 23 20 80	8	200	234	135	10
43 23 20 90	9	200	234	137	10
43 23 21 00	10	200	234	141	10
43 23 21 10	11	200	240	169	5
43 23 21 20	12	200	240	171	5
43 23 21 30	13	200	240	176	5

10546

⊖ Offset screwdrivers

DIN 5200, for slotted screws, centre handle covered with impact proof plastic, Chrome Vanadium, chrome plated.



Code	size	a mm	b mm	L mm	ΔΔ g	
73 27 20 01	1	0.6	3.5	90	8	10
73 27 20 02	2	0.8	4	100	12	10
73 27 20 03	3	1	5.5	125	29	10
73 27 20 04	4	1.2	8	150	69	10
73 27 20 05	5	1.6	10	175	105	10
73 27 20 06	6	2	12	200	149	10

10551

⊕ Offset screwdrivers

DIN 5208, for recessed head screws, Phillips-Recess®, centre handle covered with impact proof plastic, Chrome Vanadium, chrome plated.



Code	PH size	L mm	ΔΔ g	
73 28 20 12	1 x 2	125	30	10
73 28 20 23	2 x 3	150	72	10
73 28 20 34	3 x 4	200	148	10

Hexagon key wrenches

on ring, for socket head screws,
Chrome Vanadium, nickel-plated.



Code	No	g	
9643 1521	10760CV R/8 ¹⁾	260	1
9643 5521	10760aCV R/8 ²⁾	119	1

¹⁾ Content: 2; 2.5; 3; 4; 5; 6; 8; 10 mm

²⁾ Content: 1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4"

Hexagon key wrenches

in holder, for socket head screws,
Chrome Vanadium, nickel-plated.



Code	No	g	
9643 1501	10760CV/9 ¹⁾	245	1
9643 5501	10760aCV/10Pc ²⁾	269	1
9643 5502	10760aCV/13 ³⁾	124	1

¹⁾ Content: 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm

²⁾ Content: 1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4; 5/16; 3/8" (in plastic-wallet)

³⁾ Content (in two holders): 0.028; 0.035; 0.050; 1/16; 5/64; 3/32; 7/64; 1/8; 9/64; 5/32; 3/16; 7/32; 1/4"

TCS 10760/14; 1.5-22 mm



175 x 350 x 40 mm, 14 pieces

Code	g
96830175	2645

No 10760 sizes 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10; 12; 14; 17; 19; 22 mm

10760CV

Hexagon key wrenches

DIN ISO 2936 (metric), for socket head screws,
Chrome Vanadium, nickel-plated.



Code	mm/"	L ₁ mm	L ₂ mm	g	
43 150070	0.7/0.028	8	32	1	10
43 150090	0.9/0.035	10	32	1	10
43 150130	1.3/0.050	12	40	1	10
43 150150	1.5	14	45	1	10
43 150002	2	16	50	2	10
43 150250	2.5	18	56	3	10
43 150003	3	20	63	4	10
43 150350	3.5	22	66	7	10
43 150004	4	25	70	10	10
43 150005	5	28	80	18	10
43 150006	6	32	90	29	10
43 150007	7	34	95	42	10
43 150008	8	36	100	59	10
43 150009	9	38	105	80	10
43 150010	10	40	112	103	10
43 150011	11	42	119	130	10
43 150012	12	45	125	169	5
43 150014	14	56	140	261	5
43 150017	17	63	160	442	5
43 150019	19	70	180	603	5
43 150022	22	80	200	938	1
43 150024	24	90	224	1248	1
43 150027	27	100	250	1692	1
43 150030	30	112	280	2434	1
43 150032	32	125	315	3117	1
43 150036	36	140	355	4430	1

10760aCV

Hexagon key wrenches


Code	mm/"	L ₁ mm	L ₂ mm	g	
43 150070	0.7/0.028	8	32	1	10
43 150090	0.9/0.035	10	32	1	10
43 150130	1.3/0.050	12	40	1	10
43550003	3/64	14	45	1	10
43550004	1/16	15	45	1	10
43550005	5/64	16	50	2	10
43550006	3/32	17	51	3	10
43550007	7/64	20	54	4	10
43550008	1/8	22	57	5	10
43550009	9/64	23	63	7	10
43550010	5/32	25	65	10	10
43550012	3/16	29	70	15	10
43550014	7/32	32	80	23	10
43550016	1/4	32	87	32	10
43550018	9/32	35	95	45	10
43550020	5/16	40	98	59	10
43550022	11/32	41	105	75	10
43550024	3/8	45	110	95	10
43550028	7/16	48	124	143	10
43550032	1/2	50	133	200	5
43550034	9/16	57	152	380	5
43550036	5/8	59	160	380	5
43550040	3/4	70	180	605	5
43550044	7/8	80	200	945	1

10765/9 Hexagon key wrenches

for socket head screws,
DIN ISO 2936, extra long,
in holder, Chrome Vanadium,
nickel-plated.

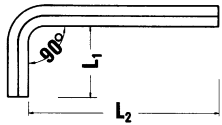
Content:
1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm




Code	g	
96432101	410	5

10765 Hexagon key wrenches

DIN ISO 2936, for socket head screws, extra long,
Chrome Vanadium, nickel-plated.




Code	mm	L ₁ mm	L ₂ mm	g	
43210015	1.5	14	90	3	10
43210002	2	16	100	3	10
43210025	2.5	18	112	5	10
43210003	3	20	126	9	10
43210004	4	25	140	17	10
43210005	5	28	160	31	10
43210006	6	32	180	50	10
43210007	7	34	190	74	10
43210008	8	36	200	100	10
43210009	9	38	210	135	10
43210010	10	40	224	179	10
43210012	12	45	250	287	5
43210014	14	56	280	440	5
43210017	17	63	320	742	5
43210019	19	70	360	1048	5

Key wrenches

for inside TORX® screws,
in holder,
Chrome Vanadium,
chrome plated.



Code	No	g	
96432201	10766/6 ¹⁾	101	1
96432202	10766/9 ²⁾	120	1


¹⁾ Content: sizes T15; T20; T25; T27; T30; T40

²⁾ Content: sizes T8; T9; T10; T15; T20; T25; T27; T30; T40

10766 Key wrenches

for inside TORX® screws,
Chrome Vanadium, chrome plated.



Code	size	mm	L ₁ mm	L ₂ mm	g	
43220006	T6	1.6	16	38	2	10
43220007	T7	2.0	16	41	2	10
43220008	T8	2.3	16	44	3	10
43220009	T9	2.5	16	48	3	10
43220010	T10	2.7	17	51	3	10
43220015	T15	3.3	18	54	5	10
43220020	T20	3.8	19	57	7	10
43220025	T25	4.4	20	60	9	10
43220027	T27	5.0	21	64	15	10
43220030	T30	5.5	24	70	20	10
43220040	T40	6.6	26	76	29	10
43220045	T45	7.8	29	83	42	10
43220050	T50	8.8	32	95	61	10
43220055	T55	11.2	35	108	122	10
43220060	T60	13.2	38	120	185	10

10771/6 Key wrenches

for inside TORX® screws,
extra long,
with ball end on long arm,
in holder,
Chrome Vanadium, gun finished.
Content:
sizes T15; T20; T25; T27; T30; T40




Code	g	
96432701	168	1

10771 Key wrenches

for inside TORX® screws,
extra long,
with ball end on long arm,
swivel angle up to 20° each side,
Chrome Vanadium,
gun finish.



Code	size	mm	L ₁ mm	L ₂ mm	g	
43270010	T10	2.7	17	73	10	5
43270015	T15	3.3	19	83	15	5
43270020	T20	3.8	20	94	20	5
43270025	T25	4.4	20	96	24	5
43270027	T27	5.0	22	106	28	5
43270030	T30	5.5	26	119	30	5
43270040	T40	6.6	28	137	35	5

Ball ended hexagon key wrenches

in holder,
Chrome Vanadium,
gunmetal finish.



Code	No	g	
96432601	10767/9¹⁾	420	5
96435701	10767a/8²⁾	283	1
96435702	10767a/13³⁾	455	1

¹⁾ Content: 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm

²⁾ Content: 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4; 5/16"

³⁾ Content: 0.050; 1/16; 5/64; 3/32; 7/64; 1/8; 9/64; 5/32; 3/16; 7/32; 1/4; 5/16; 3/8"

10767H/9

Set: Ball ended hexagon key wrenches

for recessed hexagonal screws,
swivel angle up to 25° each side,
from size 3 mm with ring,
with ball end on long arm,
facilitates quick, safe work in
awkward places, screws stay
on the head once attached,
in holder,
Chrome Vanadium,
gunmetal finish.
Content: 1.5; 2; 2.5; 3; 4; 5; 6; 8;
10 mm



Code	g	
96432602	401	5

10767H

Ball ended hexagon key wrenches

for hexagon key wrenches,
swivel angle up to 25° each side,
with ball end on long arm,
facilitates quick, safe work in
awkward places, screws stay
on the head once attached,
Chrome Vanadium,
gunmetal finish.



Code	mm	L ₁ mm	L ₂ mm	g	
46231003	3	127	23	8	10
46231004	4	141	28	17	10
46231005	5	165	34	30	10
46231006	6	185	38	50	5
46231008	8	205	45	100	5
46231010	10	232	51	175	5

10767

Ball ended hexagon key wrenches

for hexagon socket head
screws,
with ball end on long arm,
swivel angle up to 25° each side,
Chrome Vanadium, gunmetal finish.



Code	mm/"	L ₁ mm	L ₂ mm	g	
43570130	1.3/0.050	12	72	1	10
43260015	1.5	14	90	1.5	10
43260002	2	16	100	3	10
43260025	2.5	18	112	5.5	10
43260003	3	20	126	9	10
43260004	4	25	140	18	10
43260005	5	28	160	31	10
43260006	6	32	180	50	10
43260008	8	36	200	100	10
43260010	10	40	224	188	10
43260012	12	45	224	297	10

10767a

Ball ended hexagon key wrenches

Code	mm/"	L ₁ mm	L ₂ mm	g	
43570130	1.3/0.050	12	72	1	10
43570004	1/16	14	80	1.5	10
43570005	5/64	16	89	3	10
43570006	3/32	18	101	5	10
43570007	7/64	20	111	7	10
43570008	1/8	20	121	9.5	10
43570009	9/64	23	136	13	10
43570010	5/32	25	149	16	10
43570012	3/16	26	163	27	10
43570014	7/32	29	170	42	10
43570016	1/4	31	179	60	10
43570020	5/16	36	189	102	10
43570024	3/8	38	200	164	10



Angled key wrenches in a convenient holder



with various different drivers, internal hexagon, ball-end internal hexagon (metric), TORX®. Blades are crafted in high-alloy, corrosion-free, chrome nickel steel. Blade points on internal hexagons are chamfered to facilitate insertion into the screw head. 100% greater torque thanks to thickened neck area on ball-end. Holder made of fibreglass reinforced plastic, extremely heavy duty, with an ergonomically shaped grip. Blades are pivotable in the holder up to 270°, making them ideal for work in confined spaces.

10761a* inch

Content:

5/64; 3/32; 7/64; 1/8; 9/64; 5/32; 3/16; 7/32; 1/4"





Code		
43360002	g 108	1

* to be discontinued

10761TX* TORX®

Content:

T9; T10; T15; T20; T25; T27; T30; T40


Code		
43360003	g 148	1

* to be discontinued

10761KK* ball end metric

Content:

4; 5; 6; 8; 10 mm



Code		
43360004	g 230	1

* to be discontinued

ES 10768/6

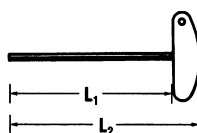





350 x 350 x 37 mm, 6 pieces

Code	
96838119	g 780
 No 10768	sizes 3; 4; 5; 6; 8; 10 mm
83 81 20 42	Empty tray 209

10768 T-handled screwdrivers

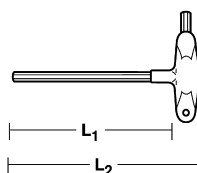
for socket head screws, Chrome Vanadium, matt chrome plated, black tips.






Code		L ₁	L ₂		
	mm	mm	mm	g	
43250020	2	100	116	10	10
43250025	2.5	100	116	10	10
43250030	3	150	166	20	10
43250040	4	150	175	40	10
43250050	5	200	225	60	10
43250060	6	200	225	80	10
43250080	8	200	235	150	5
43250100	10	200	235	210	5

10768-2K Hexagon key wrenches

with 2-component T-handle, for socket head screws, with two tips, Chrome Vanadium, matt chrome plated, black tips.



Code		L ₁	L ₂		
	mm	mm	mm	g	
43252020	2	100	125	33	10
43252025	2.5	100	125	42	10
43252030	3	150	174	42	10
43252040	4	150	176	51	10
43252050	5	200	227	73	10
43252060	6	200	228	92	10
43252080	8	200	235	178	5
43252100	10	200	235	247	5

ES 10769/7



175 x 350 x 35 mm, 7 pieces

Code	g
96838120	450
No 10769	sizes T10; T15; T20; T25; T27; T30; T40
83 81 20 43 Empty tray	116

10769 TORX® -T-handled screwdrivers

for inside TORX® screws,
shaft nickel-plated and
chrome plated,
tips hardened,
Chrome Vanadium,
matt chrome plated,
black tips.



Code	size	mm	L ₁ mm	L ₂ mm	g	g	g
43 29 00 06	T6	1.6	80	96	10	5	5
43 29 00 07	T7	2	80	96	10	5	5
43 29 00 08	T8	2.3	80	96	10	5	5
43 29 00 09	T9	2.5	80	96	10	5	5
43 29 00 10	T10	2.7	100	116	10	5	5
43 29 00 15	T15	3.3	100	116	20	10	10
43 29 00 20	T20	3.8	100	125	30	10	10
43 29 00 25	T25	4.4	110	135	40	10	10
43 29 00 27	T27	5	110	135	50	10	10
43 29 00 30	T30	5.5	130	155	60	10	10
43 29 00 40	T40	6.6	130	165	100	10	10
43 29 00 45	T45	7.8	130	165	120	10	10
43 29 00 50	T50	8.8	130	165	140	5	5
43 29 00 55	T55	11.2	130	165	190	5	5

ES 10769B/7



175 x 350 x 35 mm, 7 pieces

Code	g
96838129	450
No 10769B	sizes T10; T15; T20; T25; T27; T30; T40
83 81 20 43 Empty tray	116

10769B TORX® screwdrivers with T-handle

with hollow point
(TORX® TAMPER RESISTANT),
shaft nickel-plated and
chrome plated, tips hardened,
Chrome Vanadium,
matt chrome plated,
black tips.



Code	size	mm	L ₁ mm	L ₂ mm	g	g
43 30 00 10	T10	2.7	100	116	20	5
43 30 00 15	T15	3.3	100	116	20	5
43 30 00 20	T20	3.8	100	125	30	5
43 30 00 25	T25	4.4	110	135	40	5
43 30 00 27	T27	5.0	110	135	50	5
43 30 00 30	T30	5.5	130	155	50	5
43 30 00 40	T40	6.6	130	165	100	5
43 30 00 45	T45	7.8	130	165	110	5

10757 Four-sided bradawl

for punching and preparing
leather, plastics and other soft
materials and for marking holes
in wood to prevent wood screws
slipping off the mark.



Code	L mm	Blade mm	g	g
77 59 00 00	200	6 x 100	167	1

And certified to DIN EN ISO 9001

After STAHLWILLE was certified,
as one of the very first companies back in 1990,
to DIN EN ISO 9002, our Quality Assurance System
was also certified to DIN EN ISO 9001 in 1992.





STAHLWILLE pliers, cutters & wrenches

**for accurate work
and a powerful grip.**



The material

- STAHLWILLE pliers, cutters & wrenches are made of carefully selected steel grades to match the application concerned and forged in our own forging shop.

Machining processes

- State-of-the-art machines ensure that the stringent quality standards in force at STAHLWILLE and certified by DQS to DIN EN ISO 9001 are upheld. This guarantees the accuracy and consistency of our products. STAHLWILLE pliers, cutters & wrenches are hardened in oil, the cutting edges are subjected to additional induction heat-treatment to ensure durability and long service lifetimes, even under heavy working conditions.



Safe working

- STAHLWILLE pliers, cutters & wrenches cut accurately right to the tips and grip even the finest wires, oily steel sheets and heavy workpieces securely and without undue effort, thus contributing to efficient, safe working methods under all working conditions.



The handles

- STAHLWILLE pliers, cutters & wrenches fit snugly in the hand and distribute the force applied over a large area of the handle. The handles are, after all, the interface between the tool and the user. In this way, pliers, cutters & wrenches form a functional unit with the operator and provide that much more safety and force transmission.

Quality assurance

- STAHLWILLE pliers, cutters & wrenches are created in individual, quality-controlled production steps. These include, as one would expect, thorough tests of the hardening and of the cutting edges.



STAHlwILLE VDE pliers & cutters

STAHlwILLE VDE pliers & cutters are manufactured to meet the current demands of EN 60900 and are individually tested. They are designed to provide maximum possible protection when the user is working with voltages of 1,000 volts AC.

Voltage testing

All STAHlwILLE VDE pliers & cutters are tested to AC 10,000 volts and are certified up to 1,000 volts. In other words, with a tenfold safety margin.

Pressure tests

When they are subjected to a load of 20 N m and a temperature of 70°C, there must be no dielectric breakdown or arcing when the tools are subjected to 5,000 volts AC.

The electrical insulation

After being submerged in water for 24 hours, the pliers & cutters are subjected to 10,000 volts AC and, at the same time, the leakage current is measured for three minutes. There must be no dielectric breakdown or arcing.

Testing the adherence of the PVC coating

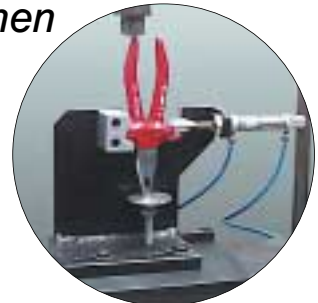
The handles must still be firmly attached to the tools after about 168 hours in a heat cabinet at 70°C. This stripping test on the PVC covers is carried out for three minutes at 500 N.

Cold impact tests

The insulating handles are subjected to 2 hours at -25°C in a freezer and must still be tough enough not to shatter or break when knocked.

Testing resistance to fire

The danger of fire can only be combatted through the use of non-flammable PVC. During the test, the flame on the handle must not exceed a height of 120 mm within 20 seconds.



Cold impact test



Testing resistance to fire



Testing adherence of the PVC coatings



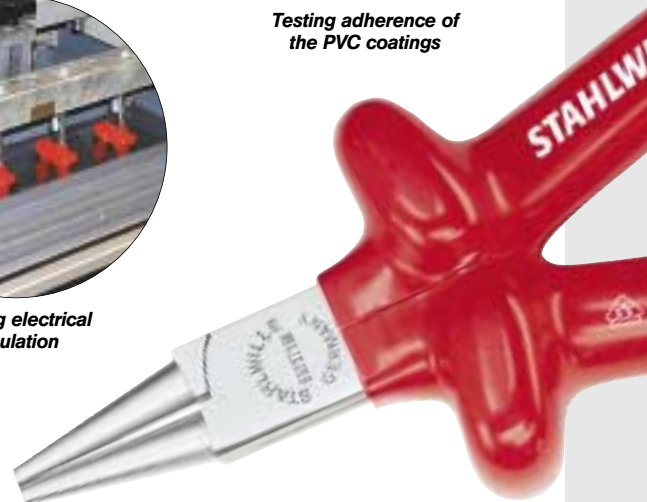
Voltage testing



Pressure testing and electrical voltage testing



Testing electrical insulation



Combination Pliers

6501 Combination pliers

DIN ISO 5746, precision cutter for all wires, incl. piano wire, induction hardened cutting edges, approx. 62 HRC, for long life.



Code	L mm	Head	Handles	③	④	⑤	⑥	$\Delta \triangle$ g
65014160	160	chrome plated	chrome plated, chequered	1.8	1.5	10	16	150
65014180	180			2	1.8	12	16	191
65014200	200			2.5	2	13	16	254
65015160	160	chrome plated	with H.D. sleeves	1.8	1.5	10	16	210
65015180	180			2	1.8	12	16	250
65015200	200			2.5	2	13	16	368
65016160	160	polished	dip-coated with sure-grip surface	1.8	1.5	10	16	163
65016180	180			2	1.8	12	16	190
65016200	200			2.5	2	13	16	263

③ cutting capacity in mm for hard wire

④ cutting capacity in mm for piano wire

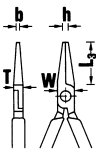
⑤ cutting capacity in mm for cable

⑥ cutting capacity in mm² for cable

Flat Nose Pliers

6508 Flat nose pliers, long

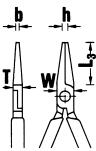
DIN ISO 5745, long, flat serrated jaws.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	$\Delta \triangle$ g
65085160	160	chrome plated	with H.D. sleeves	50	15	8	3	5	160
65086160	160	polished	dip-coated with sure-grip surface	50	15	8	3	5	113

6509 Flat nose pliers, long, with cutter

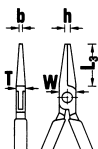
designed for gripping and manipulating electronic components, long, thin, flat serrated jaws, induction hardened cutting edges, approx. 60 HRC, for soft and hard wires.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	$\Delta \triangle$ g
65095140	140	chrome plated	with H.D. sleeves	41	14	7.5	2.5	4	105

6510 Mechanics flat nose pliers

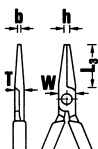
designed for use in fine mechanical and electronics industries, flat, slim, long serrated jaws, box joint, for long life, serrated gripping areas.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	△ g
65 105 145	145	chrome plated	dip-coated with sure-grip surface	39	11.5	7.5	2	4.5	80
65 105 170	170			64	13.5	8	2	4.5	122
65 105 190	190			75	13.5	8.5	2	4.5	128

6516 Mechanics flat nose pliers

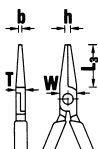
designed for use by instrument mechanics, flat blunt, serrated jaws, wear resistant.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	△ g
65 165 200	200	chrome plated	dip-coated with sure-grip surface	40	13.5	9.5	2.5	9.5	158

6511 Relay pliers

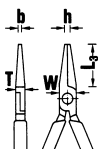
DIN 5235, Form A, flat pointed, for use on contact and relay springs and on small components, smooth jaws.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	△ g
65 115 135	140	chrome plated	dip-coated with sure-grip surface	33	13	7.5	1	1.5	75

6512 Relay pliers

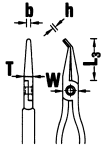
DIN 5235, Form B, flat blunt, for use on contact and relay springs and on small components, smooth jaws.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	△ g
65 125 135	140	chrome plated	dip-coated with sure-grip surface	33	13	7.5	1	3.5	81

6513 Relay pliers

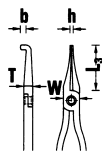
DIN 5235, Form C, flat bent, 45° in line with jaws, for use on contact and relay springs and on small components, smooth jaws.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	⊖ g
65 135 135	140	chrome plated	dip-coated with sure-grip surface	31	13	7.5	1	3.5	80

6514 Relay pliers

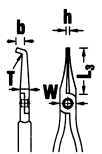
DIN 5235, Form E, flat bent, 90° angle to jaws, for use on contact and relay springs and on small components, smooth jaws.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	⊖ g
65 145 135	140	chrome plated	dip-coated with sure-grip surface	33	13	7.5	1	4	75

6515 Relay pliers

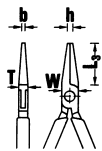
DIN 5235, Form D, flat bent, 75° angle to jaws, for use on contact and relay springs and on small components, smooth jaws.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	⊖ g
65 155 135	140	chrome plated	dip-coated with sure-grip surface	33	13	7.5	1	4	75

6518 Mechanics gripping pliers

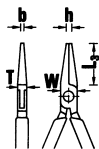
Form A, flat blunt, designed for use by instrument mechanics, wide precision jaws, smooth, tapering to 1.5 mm, box joint for precise movement.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	⊖ g
65 185 130	130	chrome plated	dip-coated with sure-grip surface	24	11.5	7	2	6.5	75

6519 Mechanics gripping pliers

Form B, flat pointed, designed for use by instrument mechanics, flat pointed precision jaws, smooth, tapering to 1.5 mm, box joint for precise movement.

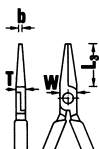


Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	Δ _g g
65 195 130	130	chrome plated	dip-coated with sure-grip surface	24	11.5	7	1.5	2	75

Round Nose Pliers

6523 Round nose pliers, short

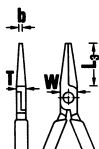
DIN ISO 5745, for bending wire loops and rings, short, round, ground jaws, fine serrations on gripping areas.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	b mm	Δ _g g
65 235 160	160	chrome plated	with H.D. sleeves	30	18	10	3	185

6524 Round nose pliers, long

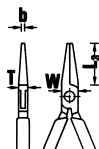
DIN ISO 5745, for bending wire loops and rings, long, round, ground jaws, fine serrations on gripping areas.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	b mm	Δ _g g
65 245 160	160	chrome plated	with H.D. sleeves	47	15.5	8.5	2.5	155

6525 Mechanics round nose pliers

for bending wire loops, round precision jaws, smooth, 1.0 point diameter, box joint for precise movement.

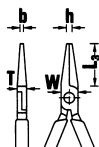


Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	b mm	Δ _g g
65 255 130	130	chrome plated	dip-coated with sure-grip surface	22	11.5	7	1	70

Snipe Nose Pliers

6529 Snipe nose pliers with cutter (radio- or telephone pliers)

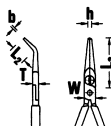
DIN ISO 5745, Form A (straight), half round, long tapering, serrated jaws, with burner hole, precision cutters for soft and hard wires, induction hardened cutting edges, approx. 60 HRC.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	Δ _g g
65294160	160	chrome plated	chrome plated, chequered	51	16	9	3	2.5	116
65294200	200			73	17	9	3	2.5	160
65295160	160	chrome plated	with H.D. sleeves	51	16	9	3	2.5	170
65295200	200			73	17	9	3	2.5	220
65296160	160	polished	dip-coated with sure-grip surface	51	16	9	3	2.5	148
65296200	200			73	17	9	3	2.5	187

6530 Snipe nose pliers with cutter (Radio- or Telephone Pliers)

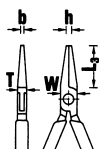
DIN ISO 5745, Form B, bent 45°, half round, long tapering, serrated jaws, with burner hole, precision cutters for soft and hard wires, induction hardened cutting edges, approx. 60 HRC.



Code	L mm	Head	Handles	L ₂ mm	L ₃ mm	W mm	D mm	h mm	b mm	Δ _g g
65304160	160	chrome plated	chrome plated, chequered	24	55	16	9	3	2.5	116
65304200	200			28	76	17	9	3.5	3	163
65305160	160	chrome plated	with H.D. sleeves	24	55	16	9	3	2.5	170
65305200	200			28	76	17	9	3.5	3	220
65306160	160	polished	dip-coated with sure-grip surface	24	55	16	9	3	2.5	146
65306200	200			28	76	17	9	3.5	3	178

6531 Mechanics snipe nose pliers

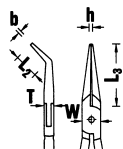
Form A (straight), designed for use on miniature electronic and mechanical components, haft round extra thin, long tapering jaws with fine serration, box joint for precise movement.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	Δ _g g
65315170	170	chrome plated	dip-coated with sure-grip surface	63	13.5	8	2.5	2	100
65315190	190			75	14	8.5	2.5	2	122

6532 Mechanics snipe nose pliers

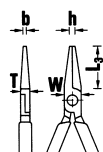
Form B, bent 45°, designed for use on miniature electronic and mechanical components, half round extra thin, long tapering jaws with fine serrations, box joint for precise movement.



Code	L mm	Head	Handles	L ₂ mm	L ₃ mm	W mm	D mm	h mm	b mm	Δg g
65325170	170	chrome plated	dip-coated with sure-grip surface	24	54	13.5	8	2.5	2	102
65325190	190			28	70	14	8	2.5	2	122

6533 Mechanics snipe nose pliers

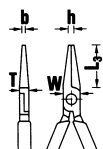
half round, long tapering, serrated jaws.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	Δg g
65335160	160	chrome plated	dip-coated with sure-grip surface	50	15	8	3	2.5	129

6534 Mechanics snipe nose pliers

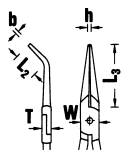
Form A (straight), half round, long tapering, serrated jaws.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	Δg g
65345200	200	chrome plated	with H.D. sleeves	76	16	10	3	2.5	220
65345280	280	chrome plated	dip-coated with sure-grip surface	73	20	9.5	3	2.5	255

6535 Mechanics snipe nose pliers

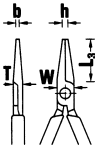
Form B (bent 45°), half round, long tapering, serrated jaws.



Code	L mm	Head	Handles	L ₂ mm	L ₃ mm	W mm	D mm	h mm	b mm	Δg g
65355200	200	chrome plated	with H.D. sleeves	28	68	17	9.5	3.5	3	220
65355280	280	chrome plated	dip-coated with sure-grip surface	28	66	20	9.5	3	2.5	255

6538 Mechanics snipe nose pliers

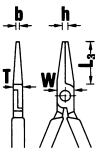
designed for use on miniature mechanical components half round tapering jaws, wear resisting serration.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	Δ g
65385200	200	chrome plated	dip-coated with sure-grip surface	38	13	9.5	2.5	2	157

6536 Snipe nose pliers (needle pliers)

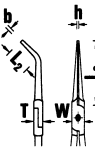
DIN ISO 9655, Form A (straight), designed for use on electronic components, half round, extra long tapering jaws, fine serration.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	Δ g
65365160	160	chrome plated	dip-coated with sure-grip surface	58	15	8.5	3	1	110

6537 Snipe nose pliers (needle pliers)

Form B, bent 45°, designed for use on electronic components, half round, extra long tapering jaws, fine serration.



Code	L mm	Head	Handles	L ₂ mm	L ₃ mm	W mm	D mm	h mm	b mm	Δ g
65375160	160	chrome plated	dip-coated with sure-grip surface	25	54	14	8	1	3	115

7

Circlip Pliers

6543 Circlip pliers for inside circlips

DIN 5256 C, straight, H.D. drop forged, precision points.



Code	size	L mm	tips Ø mm	for circlip sizes mm	Head	Handles	Δ g
65434000	J 0	140	0.9	8-13	matt chrome plated	chrome plated, chequered	90
65434001	J 1	140	1.3	12-25			90
65434002	J 2	180	1.8	19-60			135
65434003	J 3	225	2.3	40-100			195
65434004	J 4	320	3.2	85-140			419
65436000	J 0	140	0.9	8-13	polished	dip-coated with sure-grip surface	100
65436001	J 1	140	1.3	12-25			100
65436002	J 2	180	1.8	19-60			150
65436003	J 3	225	2.3	40-100			215
65436004	J 4	320	3.2	85-140			462

6544 Circlip pliers for inside circlips

DIN 5256 D, bent 90°, H.D. drop forged, precision points.



Code	size	L mm	tips Ø mm	for circlip sizes mm	Head	Handles	⚖ g
65444001	J 01	130	0.9	8-13	matt chrome plated	chrome plated, chequered	90
65444011	J 11	130	1.3	12-25			90
65444021	J 21	170	1.8	19-60			135
65444031	J 31	215	2.3	40-100			195
65444041	J 41	300	3.2	85-140			416
65446001	J 01	130	0.9	8-13	polished	dip-coated with sure-grip surface	100
65446011	J 11	130	1.3	12-25			100
65446021	J 21	170	1.8	19-60			150
65446031	J 31	215	2.3	40-100			215
65446041	J 41	300	3.2	85-140			432

6545 Circlip pliers for outside circlips

DIN 5254 A, straight, H.D. drop forged, precision points, with wear resistant compression spring.



Code	size	L mm	tips Ø mm	for circlip sizes mm	Head	Handles	⚖ g
65454000	A 0	140	0.9	3-10	matt chrome plated	chrome plated, chequered	95
65454001	A 1	140	1.3	10-25			95
65454002	A 2	180	1.8	19-60			145
65454003	A 3	210	2.3	40-100			205
65454004	A 4	315	3.2	85-140			437
65456000	A 0	140	0.9	3-10	polished	dip-coated with sure-grip surface	105
65456001	A 1	140	1.3	10-25			105
65456002	A 2	180	1.8	19-60			160
65456003	A 3	210	2.3	40-100			232
65456004	A 4	315	3.2	85-140			491

6546 Circlip pliers for outside circlips

DIN 5254 B, bent 90°, H.D. drop forged, precision points, with wear resistant compression spring.



Code	size	L mm	tips Ø mm	for circlip sizes mm	Head	Handles	⚖ g
65464001	A 01	125	0.9	3-10	matt chrome plated	chrome plated, chequered	95
65464011	A 11	125	1.3	10-25			95
65464021	A 21	170	1.8	19-60			145
65464031	A 31	200	2.3	40-100			111
65464041	A 41	290	3.2	85-140			431
65466001	A 01	125	0.9	3-10	polished	dip-coated with sure-grip surface	105
65466011	A 11	125	1.3	10-25			105
65466021	A 21	170	1.8	19-60			160
65466031	A 31	200	2.3	40-100			236
65466041	A 41	290	3.2	85-140			468

6547 Special circlip pliers for slotted circlips

for slotted circlips (as used on shafts of engines, gearboxes, differentials, clutches etc.), with wear resistant compression spring.



Code	L mm	Head	Handles	⚖ g
6547 4 170	170	matt chrome plated	chrome plated, chequered	154

Waterpump Pliers

6551 Waterpump pliers

DIN ISO 8976 (No 207 c), box joint, 7 adjustment positions, anti-squeeze protection, Chrome Vanadium.



Code	L mm	Jaw opening max. mm	Head	Handles	⚖ g
6551 5 240	240	43	chrome plated	with H.D. sleeves	365
6551 6 240	240	43	black lacquered, jaws polished	black lacquered, box frame polished, dip-coated	324
6551 6 300	300	51			364

6570 Waterpump pliers FIXGRIP

DIN ISO 8976 (No 207 c), with box joint and slot, 7-position rapid-adjustment via push-button, durable compression spring, protection against dirt due to fully enclosed adjustment mechanism, Chrome Vanadium.



Code	L mm	Jaw opening max. mm	Head	Handles	⚖ g
6570 6 250	250	35	polished	dip-coated with sure-grip surface	330

6554 Waterpump pliers, with rapid adjustment

DIN ISO 8976 (No 207 c), box joint "hook" adjustment, jaw with slot, Chrome Vanadium.



Code	L mm	Jaw opening max. mm	Head	Handles	⚖ g
6554 4 250	250 ¹⁾	50	chrome plated	chrome plated, chequered	476
6554 4 375	375	70			1066

¹⁾ anti-squeeze protection

Spare springs for No 6554

Code	Spare spring for No	⚖ g
6954 0 001	65544175	2
6954 0 002	65544250	3
6954 0 003	65544375	4

6555 MINI-waterpump pliers

Chrome Vanadium.



Code	L mm	Jaw opening max. mm	Head	Handles	⚖ g
6555 125	125	15	chrome plated	dip-coated	78

6550 Battery pliers

Chrome Vanadium.



Code	L mm	Head	Handles	⚖ g
6550 4200	200	chrome plated	chrome plated, chequered	220

6549* Pipe wrenches

Type B, 45°, DIN 5234.



65490315

Code	size	L mm	Jaw opening max. mm	Head	Handles	⚖ g
65490315	1	315	45	green lacquered	green lacquered	715
65490420	1 1/2	420	61			1300
65490555	2	560	82			2530

* to be discontinued

6556* Swedish pattern wrenches

Type A, 90°, DIN 5234.



65560310

Code	size	L mm	Jaw opening max. mm	Head	Handles	⚖ g
65560310	1	310	47	green lacquered	green lacquered	790
65560420	1 1/2	420	63			1390
65560560	2	560	82			2450

* to be discontinued

6557* S-shaped Swedish pattern wrenches

Type C, DIN 5234.



65570320

Code	size	L mm	Jaw opening max. mm	Head	Handles	⚖ g
65570320	1	320	47	green lacquered	green lacquered	815
65570416	1 1/2	416	66			1490
65570535	2	535	81			2550

* to be discontinued

6558 "Heavy Duty" pipe wrenches

US-standard GGG-W-651 Type II, category A.



Code	size	L mm	Jaw opening max. mm	Head	Handles	⚖ g
65580250	10"	250	49	black lacquered	red lacquered	805
65580300	12"	300	61			1255
65580350	14"	350	61			1655
65580450	18"	450	77			2660
65580600	24"	600	90			4295

6559 "Stillson" pipe wrenches

US-standard GGG-W-651 Type I, category A.



Code	size	L mm	Jaw opening max. mm	Head	Handles	⚖ g
65590250	10"	250	35	black lacquered	red lacquered	650
65590300	12"	300	43			750
65590350	14"	350	49			1080
65590450	18"	450	61			1850
65590600	24"	600	77			3000

Self Grip Wrenches

6561 Wide jaw self grip wrench

80 mm jaw width, quick release lever, Chrome Vanadium.



Code	L mm	S mm	Head	Handles	⚖ g
65612175	175	20	bright nickel-plated	bright nickel-plated	364

6562 Parallel jaw self grip wrench

forged jaws, quick release lever, Chrome Vanadium.



Code	L mm	S mm	Head	Handles	⚖ g
65622250	250	50	bright nickel-plated	bright nickel-plated	678

6562/1 Parallel jaw self grip wrenches

6562/2

forged jaws, quick release lever, for small, V-cutout in one jaw specially designed for gripping round parts firmly and securely and also suitable for larger workpieces, also ideal for gently gripping sensitive workpieces, Chrome Vanadium.



Code	L mm	S mm	Head	Handles	g
65622100	250	100	bright nickel-plated	bright nickel-plated	985
65622200	250	200			1154

Plastic protective jaws for parallel jaw self grip wrenches No 6562/1 and No 6562/2

1 pair, provides additional protection for clamped workpieces.

Code	g
69620001	14

6563 Universal self grip wrenches

forged jaws (one straight, one contoured), quick release lever, Chrome Vanadium.



Code	L mm	S mm	Head	Handles	g
65632175	175	25	bright nickel-plated	bright nickel-plated	320
65632250	250	30			500

6564 Self grip wrenches

forged contoured jaws, quick release lever, wire cutter, Chrome Vanadium.



Code	L mm	S mm	Head	Handles	g
65642145	145	14	bright nickel-plated	bright nickel-plated	175
65642175	175	30			323
65642250	250	40			528
65642300	300	65			977

6565 Welders self grip wrench

with quick release lever, Chrome Vanadium.



Code	L mm	S mm	Head	Handles	⚖ g
65652280	280	65	bright nickel-plated	bright nickel-plated	941

6566 Pipe welders self grip wrench

with quick release lever, Chrome Vanadium.



Code	L mm	S mm	Head	Handles	⚖ g
65662280	280	85	bright nickel-plated	bright nickel-plated	944

6567 C-Clamp self grip wrench

with quick release lever, Chrome Vanadium.



Code	L mm	S mm	Head	Handles	⚖ g
65672175	175	75	bright nickel-plated	bright nickel-plated	236
65672280	280	85	bright nickel-plated	bright nickel-plated	694

6568 Long reach grip wrenches

extra large capacity, quick release lever, Chrome Vanadium.



Code	L mm	S mm	Head	Handles	⚖ g
65682460	460	180	bright nickel-plated	bright nickel-plated	1100
65682600	600	240	bright nickel-plated	bright nickel-plated	1372

6571 Long nose self grip wrench

specially suitable for narrow, tapering access, with quick-release lever, Chrome Vanadium.



Code	L mm	S mm	Head	Handles	⚖ g
65712165	165	23	bright nickel-plated	bright nickel-plated	190

Various Gripping Pliers

6575 Wire twisting pliers

registered design, for wire locking of metal fasteners, with side cutter, serrated jaws for positive grip, jaws angled by 40°, suitable for locking wires up to \varnothing 1.6 mm (dec. in. 0.06), for clockwise and anti-clockwise use, with automatic return action, Chrome Vanadium.



Code	L mm	Head	Handles	⚖ g
65751220	230	gun finish, polished	gun finish	370
65751280	280			410

6576 Connector pliers

replaceable plastic jaws, 4 adj. positions, for use on screw connections incl. Canon-connectors, or any light alloy or other tube connections, surfaces of which must not be damaged, Chrome Vanadium.



Code	L mm	Head	Handles	⚖ g
65765230	230	chrome plated	dip-coated	299

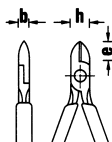
Loose plastic jaws for No 6576

Code	⚖ g
69760001	3

Side Cutters

6600 Side cutters

DIN ISO 5749, Form B, precision cutter for all wires incl. piano wire, high quality alloy steel, bevelled cutting edges induction hardened, approx. 63 HRC.



66004160



66005160



66006160

Code	L mm	Head	Handles	e mm	h mm	b mm	①	②	③	④	Δ g
66004160	160	chrome plated	chrome plated, chequered	29.5	22.5	9.5	3	2.8	2	1.6	150
66004180	180			32	23.5	11	3.8	3	2.5	2	200
66005130	125	chrome plated	with H.D. sleeves	24	17	8.6	2.8	2.3	1.5	1.25	105
66005145	140			25.7	18.5	8.2	3	2.5	1.8	1.6	160
66005160	160			29.5	22.5	9.5	3	2.8	2	1.6	205
66005180	180			32	23.5	11	3.8	3	2.5	2	325
66006160	160	polished	dip-coated with sure-grip surface	29.5	22.5	9.5	3	2.8	2	1.6	165
66006180	180			32	23.5	11	3.8	3	2.5	2	205

① Cutting capacity in mm for soft wire

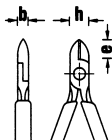
② Cutting capacity in mm for medium hard wire

③ Cutting capacity in mm for hard wire

④ Cutting capacity in mm for piano wire

6601 Side cutter

as No 6600, mini bevel, fitted with double leaf spring.



Code	L mm	Head	Handles	e mm	h mm	b mm	①	②	③	④	Δ g
66016110	110	polished	dip-coated with sure-grip surface	15	15	8.5	2.5	1.5	1.2	0.8	69

① Cutting capacity in mm for soft wire

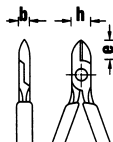
② Cutting capacity in mm for medium hard wire

③ Cutting capacity in mm for hard wire

④ Cutting capacity in mm for piano wire

6602 Heavy duty side cutters

DIN ISO 5749, Form A, precision cutter for all wires incl. piano wire, high quality alloy steel, bevelled cutting edges induction hardened, approx. 63 HRC.



Code	L mm	Head	Handles	e mm	h mm	b mm	①	②	③	④	△△ g
6602 4 140	140	chrome plated	chrome plated, chequered	23.5	20	9	4	3.1	2	1.5	120
6602 4 160	160			25.5	25	9.5	4	3.4	2.5	2	165
6602 4 180	180			27.5	26.5	10.5	4	3.8	2.7	2.2	200
6602 4 200	200			31	28	11.5	4	4	3	2.5	255
6602 5 140	140	chrome plated	with H.D. sleeves	23.5	20	9	4	3.1	2	1.5	145
6602 5 160	160			25.5	25	9.5	4	3.4	2.5	2	200
6602 5 180	180			27.5	26.5	10.5	4	3.8	2.7	2.2	290
6602 5 200	200			31	28	11.5	4	4	3	2.5	310
6602 6 140	140	polished	dip-coated with sure-grip surface	23.5	20	9	4	3.1	2	1.5	140
6602 6 160	160			25.5	25	9.5	4	3.4	2.5	2	170
6602 6 180	180			27.5	26.5	10.5	4	3.8	2.7	2.2	230
6602 6 200	200			31	28	11.5	4	4	3	2.5	260
6602 6 250	250			32	29.5	12	4	4	3.5	3	375

① Cutting capacity in mm for soft wire

② Cutting capacity in mm for medium hard wire

③ Cutting capacity in mm for hard wire

④ Cutting capacity in mm for piano wire

6608 Lever action side cutters

DIN ISO 5749, for piano wire, special steel.



Code	L mm	Head	Handles	②	④	△△ g
66080 190	190	polished	black lacquered	3.7	3	510
66080 225	225			4.2	3.5	555

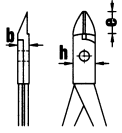
② Cutting capacity in mm for medium hard wire

④ Cutting capacity in mm for piano wire

Oblique Cutters

6612 Mechanics oblique cutters

suitable for use on miniature mechanical and electronic components, precision cutting edges for hard and soft wire head angled by 28°, Cu-wire 0.25 mm ϕ may be cut at tips, alloy steel of highest quality, induction hardened mini-bevelled cutting edges, approx. 60 HRC.



Code	L mm	Head	Handles	e mm	h mm	b mm	①	②	③	$\frac{\Delta}{g}$
66 125 185	185	chrome plated	dip-coated with sure-grip surface	14	13.5	9.5	2	1.8	1.5	145

① Cutting capacity in mm for soft wire

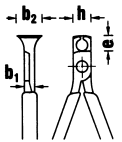
② Cutting capacity in mm for medium hard wire

③ Cutting capacity in mm for hard wire

Top Cutters

6618 Top cutters, heavy duty

DIN ISO 5748, precision cutting edges for all wires, incl. piano wire, alloy steel of highest quality, induction hardened bevelled cutting edges, approx. 63 HRC.



Code	L mm	Head	Handles	e mm	h mm	b ₁ mm	b ₂ mm	①	②	③	④	$\frac{\Delta}{g}$
66 185 160	160	chrome plated	with H.D. sleeves	17	26	11.5	24	3.8	3	2.5	2	240

① Cutting capacity in mm for soft wire

② Cutting capacity in mm for medium hard wire

③ Cutting capacity in mm for hard wire

④ Cutting capacity in mm for piano wire

6617 Lever action top cutters

DIN ISO 5748, for piano wire, special steel.



Code	L mm	Head	Handles	②	④	$\frac{\Delta}{g}$
66 170 180	180	polished	black lacquered	3.7	3.0	438
66 170 215	215			4.2	3.5	579
66 170 235	235			4.7	4.0	766

② Cutting capacity in mm for medium hard wire

④ Cutting capacity in mm for piano wire

Wire Stripping Pliers

6622 Wire stripping pliers

with adjustment screw to cut insulation only on wire or cable, max. 5 mm \varnothing 10 mm² conductor cross-section.



Code	L mm	Head	Handles	g
66225160	160	chrome plated	with H.D. sleeves	195

6623 Wire stripping pliers

for wires from 0.5 to 5 mm \varnothing , self adjusting, cutter hole for cutting wire or stranded wires up to 5 mm \varnothing , special steel.



Code	L mm	Head	Handles	g
66235160	160	chrome plated	with H.D. sleeves	180

Replacement stripping knives (1 pair) for No 6623

Code	g
69230001	11

6624 Wire stripping pliers

for wires from 0.3 to 1.2 mm \varnothing , self adjusting, cutter hole for cutting wire or stranded wires up to 5 mm \varnothing , special alloy steel.



Code	L mm	Head	Handles	g
66245160	160	chrome plated	with H.D. sleeves	180



Cable Shears

6630 Cable shears

for copper- and light alloy cables. Easy, single handed operation. Special cutter geometry to avoid pressure marks and frayed ends, adjustable joint, anti-squeeze protection, not suitable for steel- or armoured cables.



Code	L mm	Head	Handles	⑦	⑧	⑨	△▽ g
6630 1 220	220	gun finish	dip-coated with sure-grip surface	16	35	70	332

⑦ cutting capacity in mm² for single wire Al-/Cu-Cable

⑧ cutting capacity in mm² for multiple wire Al-/Cu-Cable

⑨ cutting capacity in mm² for thin wire Al-/Cu-Cable

Crimping Pliers

6634 Crimping pliers

for reliable crimping of terminal sleeves DIN 46228, 8 deep slots with tapering side walls, crimping within the size marked profiles in one operation.



Code	L mm	Head	Handles	crimping range mm ²	△▽ g
6634 5 220¹⁾	220	chrome plated	with H.D. sleeves	0.25; 0.5; 0.75; 1; 1.5; 2.5; 4; 6; 10; 16	325
6634 6 220²⁾	220	polished	dip-coated with sure-grip surface	0.25; 0.5; 0.75; 1; 1.5; 2.5; 4; 6; 10; 16	318

¹⁾ with trapezoidal profile

²⁾ with half round profile

7

Various Cutting Pliers

6660 Steel fixers pincers

DIN ISO 9242, quality steel.



Code	L mm	Head	Handles	△▽ g
6660 1 220	224	gun finish, polished	gun finish	318
6660 1 250	250			420
6660 1 280	280			434

6661 Pincers

DIN ISO 9243, quality steel.



66611180

Code	L mm	Head	Handles	⚖ g
6661 1 180	180	gun finish, polished	gun finish	322
6661 1 200	200			419

Sets of pliers in plastic inlays also suitable for Work Bench No 92, Tool Trolleys No 93, 97/6KM, 97/6M., 97/7, 97/8, Tool Boxes No 94, 94/6, Magazine Case No 920 and Wheely Box No 922 (Modular system see page 32-50)

6702 Set with 4 pliers, chrome plated

Handles chequered, in plastic inlay (modular system see page 32-41)



Code	Content	each 1 piece	⚖ g
96650004	6543	Circlip pliers, J2	590
	6544	Circlip pliers, J21	
	6545	Circlip pliers, A2	
	6546	Circlip pliers, A21	

6706 Set with 3 pliers, polished

dip-coated, in plastic inlay (modular system see page 32-41)



Code	Content	each 1 piece	⚖ g
96650008	6501	Combination pliers, 180 mm	750
	6602	Heavy duty side cutter, 160 mm	
	6529	Snipe nose pliers, 200 mm	

6703 Set with 3 pliers, chrome plated

with H.D. sleeves, in plastic inlay (modular system see page 32-41)



Code	Content	each 1 piece	g
96650005	6501	Combination pliers, 180 mm	810
	6602	Heavy duty side cutter, 160 mm	
	6529	Snipe nose pliers, 200 mm	

6705 Set with 3 pliers, polished

dip-coated, in plastic inlay (modular system see page 32-41)



Code	Content	each 1 piece	g
96650007	6551	Waterpump pliers, 240 mm, lacquered	880
	6501	Combination pliers, 180 mm	
	6602	Heavy duty side cutter, 160 mm	

6704 Set with 3 pliers, chrome plated

with H.D. sleeves (No 6501, 6602), in plastic inlay (modular system see page 32-41)



Code	Content	each 1 piece	g
96650006	6551	Waterpump pliers, 240 mm, lacquered	790
	6501	Combination pliers, 180 mm	
	6602	Heavy duty side cutter, 160 mm	

ES 6501-6602/7A



530 x 350 x 40 mm, 7 pieces

Code		g
96 83 8 121		2085
No 65 01 5 180		
No 65 29 5 200		
No 65 43 4 002		
No 65 45 4 002		
No 65 51 6 240		
No 65 64 2 250		
No 66 02 5 160		
83 81 20 21 Empty tray		307

ES 6501-6602/7B



530 x 350 x 40 mm, 7 pieces

Code		g
96 83 8 132		2055
No 65 01 5 200		
No 65 29 5 160		
No 65 43 4 002		
No 65 45 4 002		
No 65 51 6 240		
No 65 64 2 250		
No 66 02 5 160		
83 81 20 21 Empty tray		307

TCS 6501-6602/4



175 x 350 x 35 mm, 4 pieces

Code		g
96 83 8 179		1010
No 65 01 5 180		
No 65 29 5 200		
No 65 51 6 240		
No 66 02 5 160		

TCS 6543-6564/3



175 x 350 x 30 mm, 3 pieces

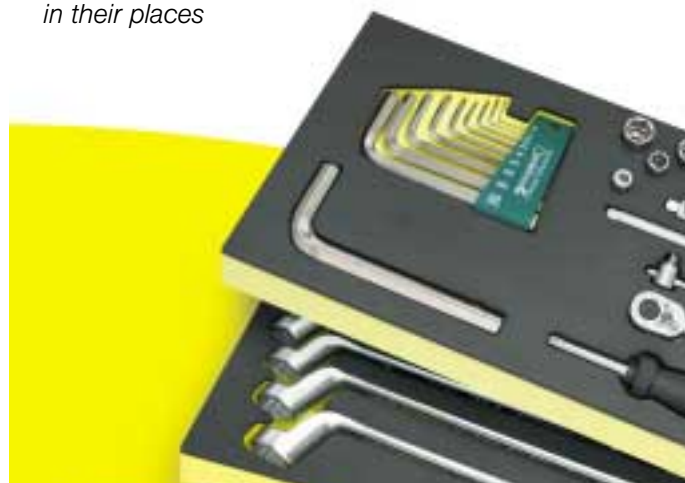
Code		g
96 83 8 180		815
No 65 43 4 002		



Tool Control System

The safety inlay system

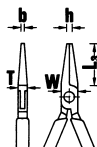
- Designed to fit our Tool Trolleys and Tool Boxes
- With yellow signal cut-outs to show whether all tools are in their places



Electronics Pliers

6517 Electronics flat nose pliers

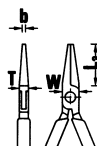
DIN ISO 9655, designed for use on miniature electronic and mechanical components, welded on double leaf spring, precision jaws, smooth, tapering to 1 mm, box joint for precise movement.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	Δ g
65176120	125	polished dip-coated with sure-grip surface		20	9	6.5	1.5	3	48
65179120	125	polished with dissipative sleeves, antistatic-dissipation > 1 x 10 ⁵ and < 1 x 10 ¹² Ω		20	9	6.5	1.5	3	55

6526 Electronics round nose pliers

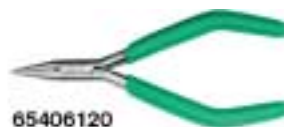
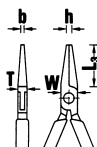
DIN ISO 9655, designed for use on miniature electronic and mechanical components, welded on double leaf spring, round precision jaws, smooth, thin, 1.25 mm point diameter, box joint for precise movement.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	b mm	Δ g
65266120	125	polished dip-coated with sure-grip surface		22	9	6.5	1.25	47
65269120	125	polished with dissipative sleeves, antistatic-dissipation > 1 x 10 ⁵ and < 1 x 10 ¹² Ω		22	9	6.5	1.25	55

6540 Electronics snipe nose pliers

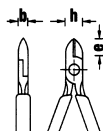
DIN ISO 9655, designed for use on miniature electronic and mechanical components, welded on double leaf spring, half round, smooth precision jaws tapering to 1 mm Ø, box joint for precise movement.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	Δ g
65406120	125	polished dip-coated with sure-grip surface		21	9	6.5	1	1	50
65409120	125	polished with dissipative sleeves, antistatic-dissipation > 1 x 10 ⁵ and < 1 x 10 ¹² Ω		21	9	6.5	1	1	56

6603 Electronics side cutters

strong, slim pattern, suitable for use on miniature electronic components precision cutting edges, mini bevel, suitable for soft and hard wire, incl. piano wire, Cu-wire of 0.2 mm \varnothing can be cut at the tips, welded on double leaf spring, alloy steel of highest quality, induction hardened cutting edges approx. 63 HRC.

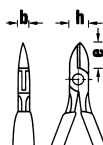


Code	L mm	Head	Handles	e mm	h mm	b mm	Cutting capacity				Δ g
							①	②	③	④	
66036115	115	polished dip-coated with sure-grip surface		14	11	6.5	1.5	1	0.8	0.5	60
66039115	115	polished with dissipative sleeves, antistatic-dissipation $> 1 \times 10^5$ and $< 1 \times 10^{12} \Omega$		14	11	6.5	1.5	1	0.8	0.5	60

- ① Cutting capacity in mm for soft wire
- ② Cutting capacity in mm for medium hard wire
- ③ Cutting capacity in mm for hard wire
- ④ Cutting capacity in mm for piano wire

6605 Electronics side cutters

DIN ISO 9654, with wire catch to prevent uncontrolled disposal of off-cuts, box joint for precise movement, precision cutting edges, mini bevel, suitable for soft and hard wire, welded on double leaf spring, alloy steel of highest quality, induction hardened cutting edges, approx. 63 HRC.

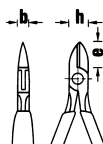


Code	L mm	Head	Handles	e mm	h mm	b mm	Cutting capacity				Δ g
							①	②	③	④	
66056110	112	polished dip-coated with sure-grip surface		13	10.5	7	1.5	1	0.8	0.6	64
66059110	112	polished with dissipative sleeves, antistatic-dissipation $> 1 \times 10^5$ and $< 1 \times 10^{12} \Omega$		13	10.5	7	1.5	1	0.8	0.6	69

- ① Cutting capacity in mm for soft wire
- ② Cutting capacity in mm for medium hard wire
- ③ Cutting capacity in mm for hard wire
- ④ Cutting capacity in mm for piano wire

6606 Electronics side cutters

DIN ISO 9654, strong model, box joint for precise movement, precision cutting edges, mini bevel, suitable for piano wire, Cu-wire 0.25 mm \varnothing , can be cut at tips, welded on double leaf spring, alloy steel of highest quality, induction hardened cutting edges, approx. 63 HRC.

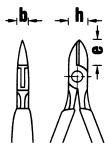


Code	L mm	Head	Handles	e mm	h mm	b mm	Cutting capacity				Δ g
							①	②	③	④	
66066110	112	polished dip-coated with sure-grip surface		13	12	7.5	1.5	1	0.8	0.6	66
66066130	125			18	16	10	1.7	1.2	1	0.8	104
66069110	112	polished with dissipative sleeves, antistatic-dissipation $> 1 \times 10^5$ and $< 1 \times 10^{12} \Omega$		13	12	7.5	1.5	1	0.8	0.6	70
66069130	125			18	16	10	1.7	1.2	1	0.8	110

- ① Cutting capacity in mm for soft wire
- ② Cutting capacity in mm for medium hard wire
- ③ Cutting capacity in mm for hard wire
- ④ Cutting capacity in mm for piano wire

6607 Electronics side cutters

DIN ISO 9654, slim tapered head for use in confined spaces, box joint for precise movement, precision cutting edges, no bevel suitable for flush cutting of soft and medium hard wire Cu- and diode wires, welded on double leaf spring, alloy steel of highest quality, induction hardened cutting edges, approx. 63 HRC.



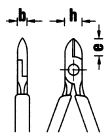
Code	L mm	Head	Handles	e mm	h mm	b mm	①	②	Δ g
66076110	112	polished dip-coated with sure-grip surface		13	12	7.5	1.5	1	64
66076130	125			18	16	10	1.5	1	104
66079110	112	polished with dissipative sleeves, antistatic-dissipation $> 1 \times 10^5$ and $< 1 \times 10^{12} \Omega$		13	12	7.5	1.5	1	70
66079130	125			18	16	10	1.5	1	110

① Cutting capacity in mm for soft wire

② Cutting capacity in mm for piano wire

6604 Mini-electronics side cutters

DIN ISO 9654, light, slim pattern, especially suitable for use on miniature electronic components, precision cutting edges, mini bevel, suitable for soft and hard wire, Cu-wire of 0.2 mm ϕ can be cut at the tips, welded on double leaf spring, alloy steel of highest quality, induction hardened cutting edges, approx. 63 HRC.



Code	L mm	Head	Handles	e mm	h mm	b mm	①	②	③	④	Δ g
66046110	112	polished dip-coated with sure-grip surface		11	9	6	1	0.8	0.6	0.4	47
66049110	112	polished with dissipative sleeves, antistatic-dissipation $> 1 \times 10^5$ and $< 1 \times 10^{12} \Omega$		11	9	6	1	0.8	0.6	0.4	53

① Cutting capacity in mm for soft wire

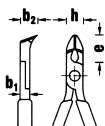
② Cutting capacity in mm for medium hard wire

③ Cutting capacity in mm for hard wire

④ Cutting capacity in mm for piano wire

6613 Electronics oblique cutters

DIN ISO 9654, tapered head for use in confined spaces, precision cutting edges for hard and soft wire, head angled by 55°, Cu-wire 0.25 mm ϕ may be cut at the tips, welded on double leaf spring, alloy steel of highest quality, induction hardened mini-bevelled cutting edges, approx. 62 HRC.



Code	L mm	Head	Handles	e mm	h mm	b ₁ mm	b ₂ mm	①	②	③	④	Δ g
66136115	112	polished dip-coated with sure-grip surface		11	11	7.5	10.5	1	0.8	0.6	0.4	54
66139115	112	polished with dissipative sleeves, antistatic-dissipation $> 1 \times 10^5$ and $< 1 \times 10^{12} \Omega$		11	11	7.5	10.5	1	0.8	0.6	0.4	66

① Cutting capacity in mm for soft wire

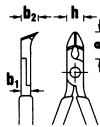
② Cutting capacity in mm for medium hard wire

③ Cutting capacity in mm for hard wire

④ Cutting capacity in mm for piano wire

6614 Electronics oblique cutters

DIN ISO 9654, as No 6613, but without bevelled cutting edges, for flush cutting of soft and medium hard Cu- and diode wires.



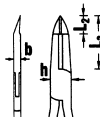
Code	L mm	Head	Handles	e mm	h mm	b ₁ mm	b ₂ mm	①	②	$\frac{\Delta}{g}$
66 146 115	112	polished dip-coated with sure-grip surface		11	11	7.5	10.5	1	0.6	55
66 149 115	112	polished with dissipative sleeves, antistatic-dissipation $> 1 \times 10^5$ and $< 1 \times 10^{12} \Omega$		11	11	7.5	10.5	1	0.6	65

① Cutting capacity in mm for soft wire

② Cutting capacity in mm for medium hard wire

6615 Electronics oblique cutters

DIN ISO 9654, slim, extended head for delicate cuts in confined spaces, box joint for precise movement, precision cutting edges with mini bevel for Cu- and diode wires, head angled by 30°, welded on double leaf spring, alloy steel of highest quality.



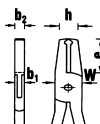
Code	L mm	Head	Handles	L ₂ mm	L ₃ mm	h mm	b mm	①	②	$\frac{\Delta}{g}$
66 156 115	112	polished dip-coated with sure-grip surface		8	18	8	6	0.6	0.3	48
66 159 115	112	polished with dissipative sleeves, antistatic-dissipation $> 1 \times 10^5$ and $< 1 \times 10^{12} \Omega$		8	18	8	6	0.6	0.3	54

① Cutting capacity in mm for soft wire

② Cutting capacity in mm for medium hard wire

6619 Electronics top cutters

DIN ISO 9654, slim long head for use in confined space, box joint for precise movement, precision cutting edges for Cu- and diode wires, mini-bevel, welded on double leaf spring, alloy steel of highest quality.



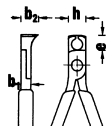
Code	L mm	Head	Handles	e mm	W mm	h mm	b ₁ mm	b ₂ mm	①	②	$\frac{\Delta}{g}$
66 196 115	112	polished dip-coated with sure-grip surface		15.5	8.5	5.5	6	5	0.6	0.3	65
66 199 115	112	polished with dissipative sleeves, antistatic-dissipation $> 1 \times 10^5$ and $< 1 \times 10^{12} \Omega$		15.5	8.5	5.5	6	5	0.6	0.3	55

① Cutting capacity in mm for soft wire

② Cutting capacity in mm for medium hard wire

6620 Electronics top cutters

DIN ISO 9654, precision cutting edges for soft and hard wires, mini-bevel, head angled 90°, pointed head, Cu-wire 0.25 mm \varnothing may be cut at the tips, welded on double leaf spring, alloy steel of highest quality, induction hardened cutting edges, mini bevel approx. 60 HRC.

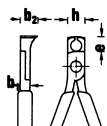


Code	L mm	Head	Handles	e mm	h mm	b ₁ mm	b ₂ mm	①	②	③	④	Δ g
66206 115	112	polished	dip-coated with sure-grip surface	6.5	11	7.5	11	1	0.8	0.6	0.4	82
66209 115	112	polished	with dissipative sleeves, antistatic-dissipation $> 1 \times 10^5$ and $< 1 \times 10^{12} \Omega$	6.5	11	7.5	11	1	0.8	0.6	0.4	62

- ① Cutting capacity in mm for soft wire
- ② Cutting capacity in mm for medium hard wire
- ③ Cutting capacity in mm for hard wire
- ④ Cutting capacity in mm for piano wire

6621 Electronics top cutters

DIN ISO 9654, as No 6620, but without bevelled cutting edge, for flush cutting of soft and medium hard Cu- and diode wires, alloy steel of highest quality, induction hardened cutting edges, approx. 60 HRC.



Code	L mm	Head	Handles	e mm	h mm	b ₁ mm	b ₂ mm	①	②	Δ g
66216 115	112	polished	dip-coated with sure-grip surface	6.5	11	7.5	11	1	0.6	82
66219 115	112	polished	with dissipative sleeves, antistatic-dissipation $> 1 \times 10^5$ and $< 1 \times 10^{12} \Omega$	6.5	11	7.5	11	1	0.6	62



- ① Cutting capacity in mm for soft wire
- ② Cutting capacity in mm for medium hard wire

VDE Pliers

6501 Combination pliers

DIN ISO 5746, precision cutter for all wires, incl. piano wire, induction hardened cutting edges, approx. 62 HRC, for long life.

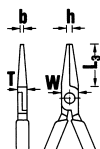


Code	L mm	Head	Handles	③	④	⑤	⑥	Δ g
65017 160	160	chrome plated	dip-coated insulation, DIN EN 60900,   AC/1000 V	1.8	1.5	10	16	202
65017 180	180			2	1.8	12	16	279
65017 200	200			2.5	2	13	16	359

- ③ cutting capacity in mm for hard wire
- ④ cutting capacity in mm for piano wire
- ⑤ cutting capacity in mm for cable
- ⑥ cutting capacity in mm² for cable

6508 Flat nose pliers, long

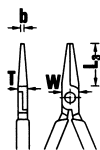
DIN ISO 5745, long, flat serrated jaws.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	⊖ g
65087 160	160	chrome plated	dip-coated insulation, DIN EN 60900, AC/1000 V	50	15	8	3	5	148

6523 Round nose pliers, short

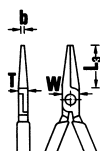
DIN ISO 5745, for bending wire loops and rings, short, round, ground jaws, fine serrations on gripping areas.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	b mm	⊖ g
65237 160	160	chrome plated	dip-coated insulation, DIN EN 60900, AC/1000 V	30	18	10	3	201

6524 Round nose pliers, long

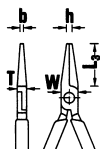
DIN ISO 5745, for bending wire loops and rings, long, round, ground jaws, fine serrations on gripping areas.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	b mm	⊖ g
65247 160	160	chrome plated	dip-coated insulation, DIN EN 60900, AC/1000 V	47	15.5	8.5	2.5	162

6529 Snipe nose pliers with cutter (radio- or telephone pliers)

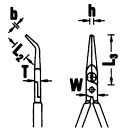
DIN ISO 5745, Form A (straight), half round, long tapering, serrated jaws, with burner hole, precision cutters for soft and hard wires, induction hardened cutting edges, approx. 60 HRC.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	⊖ g
65297 160	160	chrome plated	dip-coated insulation, DIN EN 60900, AC/1000 V	51	16	9	3	2.5	174
65297 200	200			73	17	9	3	2.5	226

6530 Snipe nose pliers with cutter (radio- or telephone pliers)

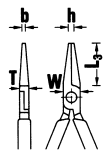
DIN ISO 5745, Form B, bent 45°, half round, long tapering, serrated jaws, with burner hole, precision cutters for soft and hard wires, induction hardened cutting edges, approx. 60 HRC.



Code	L mm	Head	Handles	L ₂ mm	L ₃ mm	W mm	D mm	h mm	b mm	⚖ g
65307 160	160	chrome plated	dip-coated insulation, DIN EN 60900, ⚡ AC/1000 V	24	55	16	9	3	2.5	185
65307 200	200			28	76	17	9	3.5	3	237

6533 Mechanics snipe nose pliers

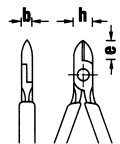
half round, long tapering, serrated jaws.



Code	L mm	Head	Handles	L ₃ mm	W mm	D mm	h mm	b mm	⚖ g
65337 160	160	chrome plated	dip-coated insulation, DIN EN 60900, ⚡ AC/1000 V	50	15	8	3	2.5	147

6600 Side cutters

DIN ISO 5749, Form B, precision cutter for all wires incl. piano wire, high quality alloy steel, bevelled cutting edges induction hardened, approx. 63 HRC.

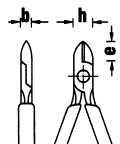


Code	L mm	Head	Handles	e mm	h mm	b mm	①	②	③	④	⚖ g
66007 160	160	chrome plated	dip-coated insulation, DIN EN 60900, ⚡ AC/1000 V	23.5	20	9	3	2.8	2	1.6	215
66007 180	180			25.5	25	9.5	3.8	3	2.5	2	270

- ① Cutting capacity in mm for soft wire
- ② Cutting capacity in mm for medium hard wire
- ③ Cutting capacity in mm for hard wire
- ④ Cutting capacity in mm for piano wire

6602 Heavy duty side cutters

DIN ISO 5749, Form A, precision cutter for all wires incl. piano wire, high quality alloy steel, bevelled cutting edges induction hardened, approx. 63 HRC.



Code	L mm	Head	Handles	e mm	h mm	b mm	①	②	③	④	⚖ g
66027 160	160	chrome plated	dip-coated insulation, DIN EN 60900, ⚡ AC/1000 V	25.5	25	9.5	4	3.4	2.5	2	220
66027 180	180			27.5	26.5	10.5	4	3.8	2.7	2.2	265
66027 200	200			31	28	11.5	4	4	3	2.5	325
66027 250	250			32	29.5	12	4	4	3.5	3	475

- ① Cutting capacity in mm for soft wire
- ② Cutting capacity in mm for medium hard wire
- ③ Cutting capacity in mm for hard wire
- ④ Cutting capacity in mm for piano wire

6622 Wire stripping pliers

with adjustment screw to cut insulation only on wire or cable, max. 5 mm \varnothing 10 mm² conductor cross-section.



Code	L mm	Head	Handles		g
66227160	160	chrome plated	dip-coated insulation, DIN EN 60900, AC/1000 V		180

6623 Wire stripping pliers

for wires from 0.5 to 5 mm \varnothing , self adjusting, cutter hole for cutting wire or stranded wires up to 5 mm \varnothing , special steel.



Code	L mm	Head	Handles		g
66237160	160	chrome plated	dip-coated insulation, DIN EN 60900, AC/1000 V		214

Replacement stripping knives (1 pair) for No 6623

Code		g
69230001		11

6624 Wire stripping pliers

for wires from 0.3 to 1.2 mm \varnothing , self adjusting, cutter hole for cutting wire or stranded wires up to 5 mm \varnothing , special alloy steel.



Code	L mm	Head	Handles		g
66247160	160	chrome plated	dip-coated insulation, DIN EN 60900, AC/1000 V		215

6630 Cable shears

for copper- and light alloy cables. Easy, single handed operation. Special cutter geometry to avoid pressure marks and frayed ends, adjustable joint, anti-squeeze protection, not suitable for steel- or armoured cables.



Code	L mm	Head	Handles					g
66307220	220	chrome plated	dip-coated insulation, DIN EN 60900, AC/1000 V		16	35	70	380

cutting capacity in mm² for single wire Al-/Cu-Cable

cutting capacity in mm² for multiple wire Al-/Cu-Cable

cutting capacity in mm² for thin wire Al-/Cu-Cable

And certified to DIN EN ISO 9001

After STAHLWILLE was certified,
as one of the very first companies back in 1990,
to DIN EN ISO 9002, our Quality Assurance System
was also certified to DIN EN ISO 9001 in 1992.





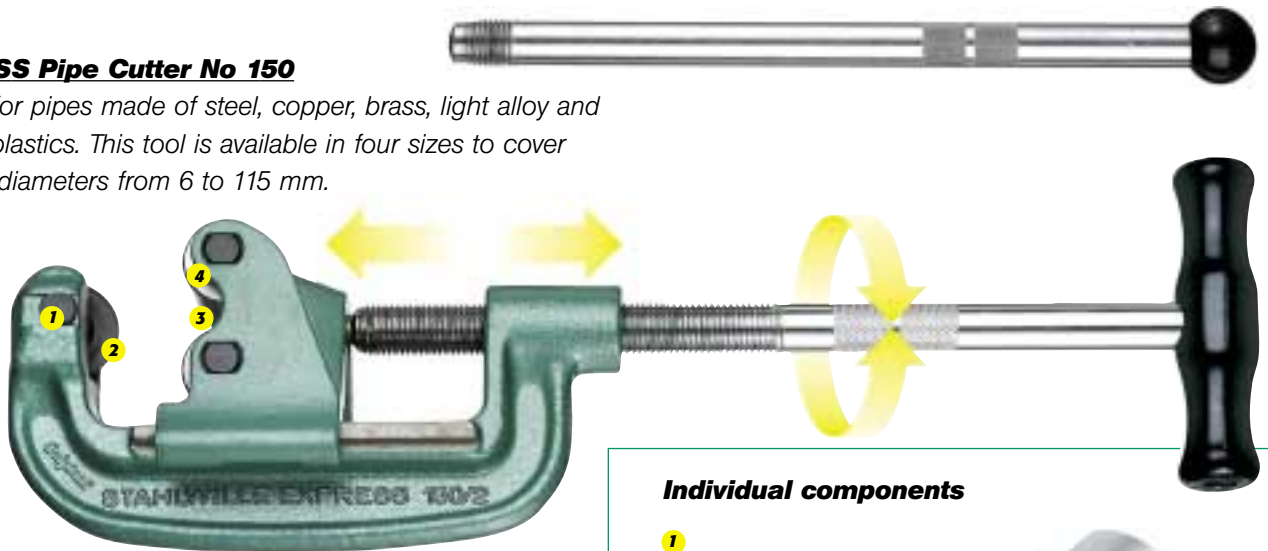
Original STAHLWILLE pipe and tube tools

These extremely robust pipe cutters guarantee accurate cutting without the danger of the cut running off at an angle. Pipes can be directly passed on to the next processing stage.

Tommy bar for applying maximum force and to aid multiple turns with No 150/4 and 151/4

EXPRESS Pipe Cutter No 150

- Ideal for pipes made of steel, copper, brass, light alloy and hard plastics. This tool is available in four sizes to cover outer diameters from 6 to 115 mm.



Essential product advantages when cutting pipes with STAHLWILLE pipe cutters:

Straight-line cutting

- STAHLWILLE EXPRESS pipe cutters ensure a perfectly perpendicular cut. The broad support rolls ensure that the cutting wheels are accurately guided throughout the cut. In this way, the cut cannot run off at an angle on the pipe surface or enter the pipe at a tilted angle. The robust drop forged upper-jaw section with its reinforced cutter-wheel guides prevents spiral cuts.

Deburring and chamfering

- The wide guide rolls flatten the burr created during the cutting process back into the material. Separate deburring is not required. The cut-to-length pipe is automatically chamfered and can be passed directly to the next processing step. The cut edge is angled in accordance with the cutting wheel geometry.

Universally applicable –

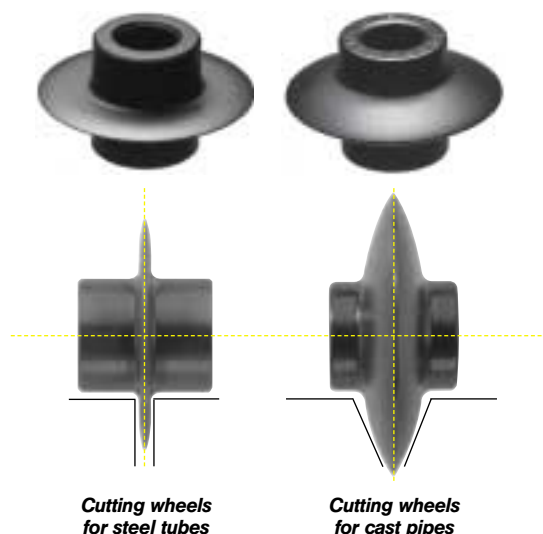
Work on pipes in situ

- STAHLWILLE EXPRESS pipe cutters can also be equipped with three cutting wheels. This enables extremely efficient work on pipes in situ involving only a small angle of movement.

STAHLWILLE cutting wheels for steel and cast pipes

- Especially high-grade, wear-resistant steel enables extraordinarily high cutting force. The cutting wheels are made of very tough special steel which guarantees long service lifetimes.

Individual components



METAL Pipe Cutter No 153

- This light-weight, extremely convenient tool is specially suitable for cutting tubes made of copper, brass, light alloy or hard plastics and for thin-walled steel tubes with outer diameters of from 3 to 35 mm and maximum cutting depths of 2.5 mm. The integrated internal three-bladed cutter in the handle removes burrs.



Midget tube cutter No 155

- For pipes and tubes made of copper, brass, light alloy, hard plastics and for thin-walled steel tubes with outer diameters of from 3 to 16 mm where the maximum cutting depth is 2.0 mm – we recommend this extremely compact and accurate tube cutter.



Chain Pipe Cutter No 157

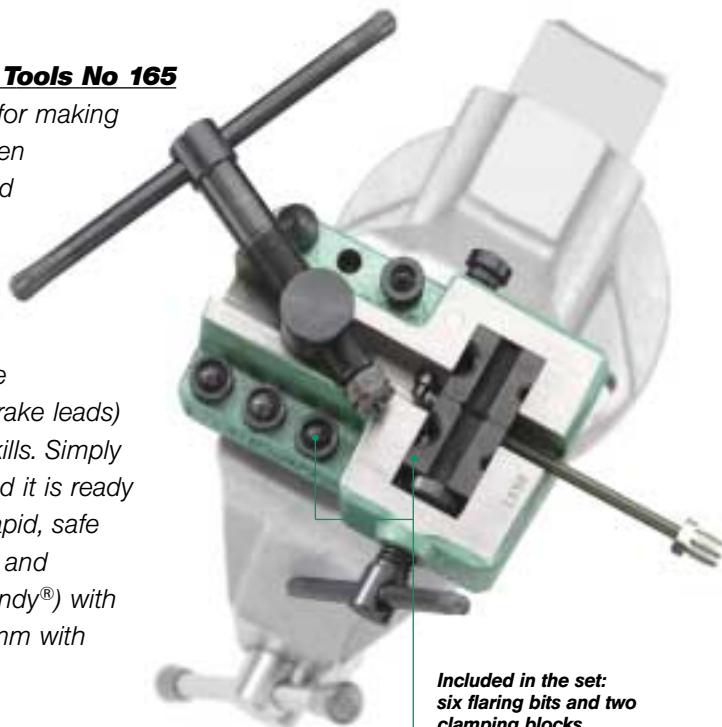
- Special pipe cutter, infinitely variable, with rotating handle, also for cutting stainless steel pipes with wall thicknesses of up to 1.8 mm and outer diameters of from 25 to 75 mm. Chain lengths up to 270 mm.



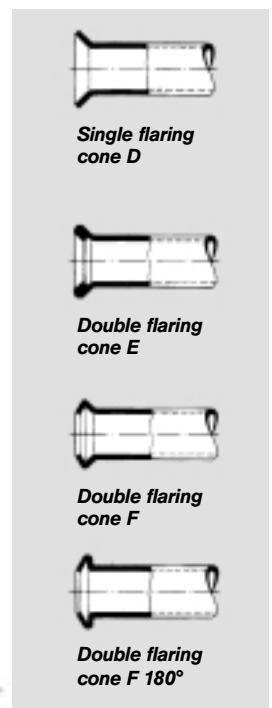
STHLWILLE flaring tools – simple to use and guaranteed optimum results.

STHLWILLE Double Flaring Tools No 165

- Double Flaring Tools are used for making permanent connections between pressurised pipes. DIN standard double flares in accordance with DIN 74234 can be made with this convenient easy-to-use and tough tool made by STHLWILLE to create safe connections (e.g. in car brake leads) without the need for special skills. Simply clamp the tool in the vice – and it is ready for use. This tool guarantees rapid, safe processing of seamless drawn and double-walled rolled pipes (Bundy®) with wall thicknesses of 0.7 or 1.0 mm with a single flaring bit.



Included in the set: six flaring bits and two clamping blocks (also available separately)



Various DIN standard single and double flares – easily and quickly produced using the STHLWILLE double flaring tool.

150 EXPRESS pipe cutters

with one cutting wheel and two guide rollers; for steel, copper, brass, aluminium and hard plastic tubing.



Code	size	"	mm	mm	Cutting depth max. mm	g	
60020001	1 ¹⁾	1/8 - 1 1/4	3 - 32	6 - 43	4.5	1220	1
60070002	2 ¹⁾	1/8 - 2	3 - 50	10 - 63	7	2191	1
60020003	3*	3/4 - 3	20 - 80	26 - 90	9	3153	1
60020004	4	1 1/4 - 4	32 - 100	42 - 115	10	4540	1
60120001	1/3 ²⁾	1/8 - 1 1/4	3 - 32	6 - 43	4.5	1140	1
60120002	2/3 ²⁾	1/8 - 2	3 - 50	10 - 63	7	2004	1
60120003	3/3 ²⁾ *	3/4 - 3	20 - 80	26 - 90	9	2992	1
60120004	4/3 ²⁾	1 1/4 - 4	32 - 100	42 - 115	10	4164	1

¹⁾ with wide guide rollers

²⁾ with three cutting wheels

* to be discontinued

H150/4 Extension lever

for No 150/4.



Code	g	
68010000	675	1

METAL Pipe Cutter

• light • handy

for use on Copper, Brass, light alloy, PVC and thin walled steel tubes, with deburring tool (3 cutters) inside handle.

153 METAL pipe cutter

chrome plated.



Code	"	mm	Cutting depth max. mm	g	
60010000	1/8 - 1 3/8	3 - 35	2.5	356	1

155 Small bore pipe cutter

for use on Copper-, Brass-, light alloy-, PVC- and thin walled Steel tubes.



Code	"	mm	Cutting depth max. mm	g	
60070001	1/8 - 5/8	3 - 16	2	102	1

SR150 Cutting wheels

for steel pipes.



Code	size	for pipe cutter	∅ mm	b mm	g	
69020101	1	150/1	25	14	14	10
69020201	2	150/2	32	19	28	10
69020301	3/4	150/3 + 4	41	19	38	10

GR151 Cutting wheels

for cast iron pipes.



Code	size	for pipe cutter	∅ mm	b mm	g	
69030201	2	151/2	32	19	40	10
69030301	3/4	151/3 + 4	41	19	70	5

SR153 Cutting wheels



Code	for pipe cutter	∅ mm	b mm	g	
69010001	153	20	6	6	10

SR155 Cutting wheels

Code	for pipe cutter	∅ mm	b mm	g	
69110001	155	20	5	5	10

157 Chain pipe cutter

infinitely adjustable, with twist handle, also suitable for special steel pipes up to 1.8 mm wall thickness, chain length 270 mm.



Code	mm	Cutting depth max. mm	g	
60110001	25 - 75	2	705	1

K157 Chain

Code	g	
69130001	183	1

Guide rollers

for pipe cutters.



Code	No	for pipe cutter	∅ mm	b mm	△△ g	
69 02 01 07	RL 1500/1	150/1	23	21.5	62	2
69 07 02 02	RL 1500/2	150-151/2	28	27.5	117	5
69 02 03 02	RL 150/3/4	150-151/3 + 4	33	19	230	5
69 01 00 02	RL 153	153	12	12	10	5

Spindles

for wheels and guide rollers.



Code	No	wheelbolt	rollerbolt	for pipe cutter	L mm	∅ mm	△△ g	
69 02 01 04	BL 150/1	x ¹⁾		150/1	29	7.5	20	1
69 02 01 03	BZ 1500/1		x ²⁾	150/1	38.5	7.5	14	10
69 07 02 03	BZ 1500/2		x	150-151/2	46	9	23	10
69 07 02 04	BL 1500/2	x		150-151/2	38	9	19	10
69 02 03 03	BZ 150/3/4	x	x	150-151/3 + 4	36	9	34	10
69 01 00 03	BZ 153		x	153	18.5	4	2	10
69 01 00 04	BL 153	x		153	13	4.75	2	10

BL = wheel bolt

BZ = roller bolt

¹⁾ wheel- and roller bolt for 150/1 until 1985, wheel bolt for 150/1 from 1986

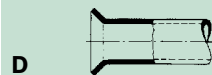
²⁾ roller bolt for 150/1 from 1986

RI 1500 Spacing washers

When required to fit pipe cutters No 150/1, 150/2 or No 151/2 with 3 cutting wheels (to work in confined spaces) a total of 4 spacing washers RI 1500/1 or RI 1500/2 is required. Simply exchange the 2 guide rollers for 2 cutting wheels No SR150/1, SR 150/2 or No GR 151/2 with 2 spacing washers to each.

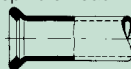


Code	size	for pipe cutter	∅ mm	b mm	△△ g	
68 02 01 01	1	150/1	14	3.9	8	6
68 02 02 01	2	150/2, 151/2	16	4.45	8	6



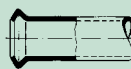
D

45° side to face spindle. Raise spindle and swivel sideways. Press Forming Cone into quick-change spindle head.



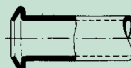
E

45° side of Clamping blocks to face spindle. Pre-form with Flaring Cone, finish with Forming Cone.



F

45° side of Clamping Blocks to face spindle. Form with Flaring Cone.



F180°

By using the 90° sides of Clamping Block, Flare "F" receives a flat collar.

Double Flaring Tool

This simple to use STAHLWILLE Double Flaring Tool will form accurate flares (to DIN 74234) on seamless drawn- and double walled (BUNDY®) tubing.

Clamped in a vice, the tool is instantly ready for use. Flaring and Pressure Cones are quickly changed.

The robust construction

of the tool, plus the shape of Flaring Cones, enables single Cone Flaring on tubes of 0.7 or 1.0 mm wall thickness.

Tubing is held horizontally by 25 mm wide clamping blocks.

This is important when endless tubing is used. A distance pin controls length of tube required for flaring.

165 Double flaring tool

with Clamping Blocks, Flaring Cones and Forming Cone No 1652.



Code		△△ g	
63 03 00 00	4.75; 5; 6; 8; 9; 10 mm	3040	1

165 ma Double flaring tool

Code		△△ g	
63 53 00 01	4.75 = 3/16"; 5; 6 mm; 1/4; 5/16; 3/8"	3040	1

1650 Clamping blocks

1 pair



Code		△△ g	
68 03 00 01	4.75; 5; 6; 8; 9; 10 mm	191	1

1650 ma Clamping blocks

1 pair

Code		△△ g	
68 03 00 02	4.75 = 3/16"; 5; 6 mm; 1/4; 5/16; 3/8"	201	1

Flaring cones



Code	No	mm	g	
68040600	1651/6	6	18	1
68040800	1651/8	8	19	1
68040900	1651/9	9	19	1
68041000	1651/10	10	19	1

Flaring cones

Code	No	"	g	
68540012	1651ma	4.75/5 ³ / ₁₆ "	4.75/5 ³ / ₁₆	18 1
68440016	1651a/	1/4"	1/4	19 1
68440020	1651a/	5/16"	5/16	19 1
68440024	1651a/	3/8"	3/8	19 1

1652 Forming cones

Standard

Code	g	
68050001	19	1

1653* Forming cones

with pressure limiter for tubes up to 5 mm diameter

Code	g	
68050002	22	1

* to be discontinued

1655 Spare parts

for Double Flaring Tool No 165. Flaring Spindle, complete.

Code	g	
69100002	487	1

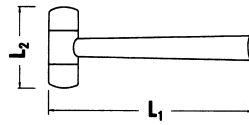
1656 Spare parts

for Double Flaring Tool No 165. Clamping Screw, complete.

Code	g	
69100003	100	1

10940 Rubber composition hammers

DIN 5128, with two plane faces.



Code	mm	L ₁ mm	L ₂ mm	g	
70140001	55	320	90	317	2
70140002	65	350	115	527	2
70140003	75	350	130	780	2
70140004	90	380	140	1190	2

10955 Plastic hammers

with interchangeable heads of impact resisting Cellulose Acetate and Ash Handles.



Code	mm	L ₁ mm	L ₂ mm	g	
70160027	27	265	90	215	6
70160032	32	280	100	325	6
70160035	35	290	105	400	2
70160040	40	320	110	550	2
70160050	50	340	115	860	2
70160060	60	380	135	1365	2

10955R Spare plastic heads

of impact resisting Cellulose Acetate, these are lightly heated and then tapped into position.

Code	mm	g	
79040027	27	13	5
79040032	32	21	10
79040035	35	28	10
79040040	40	37	10
79040050	50	65	10
79040060	60	108	10

10956 Nylon hammers

with interchangeable heads of shockproof Nylon Vestamid and EUROPLUS Handles.



Code	mm	L ₁ mm	L ₂ mm	g	
70170027	27	265	90	215	6
70170032	32	280	100	325	6
70170035	35	290	105	400	2
70170040	40	320	110	550	2
70170050	50	340	115	860	2
70170060	60	380	135	1365	2

10956R Spare nylon heads

these are lightly heated and then tapped into position.

Code	∅ mm	∆ g	
79050027	27	10	10
79050032	32	17	10
79050035	35	23	10
79050040	40	28	10
79050050	50	52	10
79050060	60	83	10

10957 Plastic hammers

recoilless;
with interchangeable heads
and Hickory Handles.



Code	∅ mm	L ₁ mm	L ₂ mm	∆ g	
70190025	25	320	108	320	6
70190030	30	350	115	460	6
70190035	35	355	118	580	6
70190040	40	375	125	760	2
70190045	45	380	130	1000	2
70190050	50	385	135	1250	2
70190060	60	420	165	1900	2

10957R Spare plastic heads

Code	∅ mm	∆ g	
79090025	25	14	10
79090030	30	19	10
79090035	35	26	10
79090040	40	38	10
79090045	45	52	10
79090050	50	72	10
79090060	60	118	10

10958 Embossing hammer

aluminium, cylindrical,
with Hickory-Handle.



Code	∅ mm	L ₁ mm	L ₂ mm	∆ g	
70240040	40	340	155	648	2

10960 Engineers hammers

with Ash Handles, DIN 1041.



Code	g	L ₁ mm	L ₂ mm	∆ g	
70110005	100	260	82	148	6
70110001	200	280	95	254	6
70110004	300	300	105	396	6
70110002	500	320	118	614	6
70110006	800	350	130	951	2
70110003	1000	360	135	1132	2
70110007	1500	380	145	1615	2
70110008	2000	400	155	2285	2

10970 Engineers hammers

with Ash Handles.



Code	lb.	L ₁ mm	L ₂ mm	∆ g	
70120001	1/4	270	67	176	6
70120005	1/2	290	82	320	6
70120006	3/4	310	93	454	6
70120002	1	320	99	575	6
70120004	1 1/2	350	118	790	2
70120003	2	380	126	1044	2

ES 10956/10960/2



175 x 350 x 45 mm, 2 pieces

Code	∆ g
96838125	1130

	No 10956	∅ 35 mm
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	No 10960	500 g
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83812025	Empty tray	114
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ES 10956/10970/2



175 x 350 x 45 mm, 2 pieces

Code	g
96838131	1075

 No 10956	Ø 35 mm
 No 10970	1 lb.
83 81 20 25	Empty tray 114

100 Ribbed cold chisels

of tough tempered special steel, chrome plated.



Code	size	L mm	b mm	g	
70010004	4	100	15	51	10
70010005	5	125	18	93	10
70010006	6	150	20	165	10
70010008	8	200	26	305	5
70010010	10	250	30	507	5
70010012	12	300	35	807	5

101* Ribbed cross-cut chisels

of tough tempered special steel, chrome plated.



Code	size	L mm	b mm	g	
70030006	6	150	4	143	10
70030008	8	200	6	305	5

* to be discontinued

102 Cold chisels

DIN 6453, Chrome Vanadium Steel, lacquered silver.



Code	size	L mm	b mm	g	
70020002	125	125	15	96	10
70020003	150	150	18	172	10
70020004	175	175	21	269	10
70020005	200	200	24	379	5
70020007	250	250	25	479	5
70020008	300	300	26	591	5

103 Cross-cut chisels

DIN 6451, flat, Chrome Vanadium Steel, lacquered silver.



Code	size	L mm	b mm	g	
70040003	150	150	16	147	10
70040004	175	175	17	239	10
70040005	200	200	18	340	5
70040007	250	250	19	441	5

110 Grooving chisel

flat, Chrome Vanadium Steel, lacquered silver.



Code	L mm	b mm	g	
70080001	240	26	292	5

112 Grooving chisel

as No 110, but with finger protector.



Code	L mm	b mm	g	
70080002	240	26	411	5

112/1 Finger protector

for Cold Chisels No 102 and Cross-cut Chisels No 103 from 200 mm onward, shaft section 23 x 13 mm.

Code	g	
79160001	101	5

104 Drift pins

DIN 6458, octagonal, Chrome Vanadium, lacquered silver.



Code	size	mm	mm	L mm	g	
70060007	120 x 2	2	10	120	60	10
70060010	120 x 3	3	10	120	60	10
70060002	120 x 4	4	10	120	62	10
70060008	120 x 5	5	10	120	64	10
70060003	120 x 6	6	10	120	66	10
70060009	120 x 8	8	12	120	68	10
70060006	175 x 8	8	16	175	244	10

105 Centre punches

DIN 7250, octagonal, Chrome Vanadium, lacquered silver.



Code	size	mm	L mm	g	
70050001	100 x 10	10	100	52	10
70050005	120 x 10	10	120	63	10
70050002	120 x 12	12	120	90	10
70050003	130 x 12	12	130	99	10
70050004	150 x 14	14	150	154	10

108 Parallel pin punches

DIN 6450, octagonal,
Chrome Vanadium, lacquered silver.



Code	size	● mm	● mm	L mm	♻️ g	📦
70071152	115 x 2	2	8	115	30	10
70070013	125 x 3	3	8	125	35	10
70070001	150 x 2.5	2.5	10	150	65	10
70070002	150 x 3	3	10	150	62	10
70070003	150 x 4	4	10	150	64	10
70070004	150 x 5	5	10	150	67	10
70070005	150 x 6	6	10	150	72	10
70070006	150 x 8	8	10	150	81	10
70070009	175 x 3 ¹⁾	3	10	175	57	10
70070010	175 x 4 ²⁾	4	10	175	64	10
70070012	175 x 6 ³⁾	6	10	175	69	10
70070008	200 x 8	8	12	200	141	10
70070011	200 x 10	10	12	200	159	10

¹⁾ for use on OPEL Kadett C

²⁾ for use on Mercedes-Benz

³⁾ with guide bush for use on retaining pins of disc brake pads, all brake calipers on OPEL Ascona B, C, Manta B, Kadett D, Astra

● diameter of tip

● size of handle, octagon

109 Pin punches

with guide bush.



Code	size	● mm	● mm	L mm	♻️ g	📦
70090001	1	0.9	5	80	7	10
70090002	2	1.4	5.5	82	12	10
70090003	3	1.8	6	86	12	10
70090004	4	2.4	7	95	18	10
70090005	5	2.8	7	97	19	10
70090006	6	3.4	8	100	25	10
70090007	7	3.9	9	100	27	10
70090008	8*	5.9	10	103	47	10

● diameter of tip

● diameter of handle

* without guide bush

ES 102/108/109/4



175 x 350 x 30 mm, 4 pieces

Code	♻️ g	📦
96838123	555	
No 102	175 mm	
No 108	150 x 6; 175 x 6 mm	
No 109	size 6; 100 x 3.4 mm	
83 81 20 27	Empty tray	115

ES 102/105/108/8



175 x 350 x 33 mm, 8 pieces

Code	♻️ g	📦
96838124	900	
No 102	175 mm	
No 105	120 x 12 mm	
No 108	150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm	
83 81 20 36	Empty tray	114

102-5/6 Sets: Chisels, pins, punches

6 pieces

content: 1 each

No 106/125 mm

No 106/150 mm

No 107/125 mm

No 104/120 x 2; 120 x 4 mm

No 105/120 x 10 mm

D = in plastic stand

Pc = in plastic wallet



Code	No	♻️ g	📦
98812201	102-5/6 D	445	1
98812202	102-5/6 Pc	426	5

104-5/6 Sets: Drift pins, centre punches

6 pieces

Content: 1 each

No 104/120 x 2; 120 x 3; 120 x 4;

120 x 5; 120 x 6 mm

No 105/120 x 10 mm

D = in plastic stand

Pc = in plastic wallet



Code	No	♻️ g	📦
96700601	104-5/6 D	417	1
96700602	104-5/6 Pc	392	5

105-8/6K Pin punch – centre punch set

6 pieces
in transparent plastic
container stand.
Content: 1 each
No 108/150 x 2.5; 150 x 3; 150 x 4;
150 x 5; 150 x 6 mm;
DIN 6450/ Form C
No 105/120 x 10 mm; DIN 7250



Code	g	Box
96700711	483	1

108/6 Sets: Parallel pin punches

6 pieces
Content: 1 each
No 108/150 x 2.5; 150 x 3; 150 x 4;
150 x 5; 150 x 6; 150 x 8 mm
D = in plastic stand
Pc = in plastic wallet

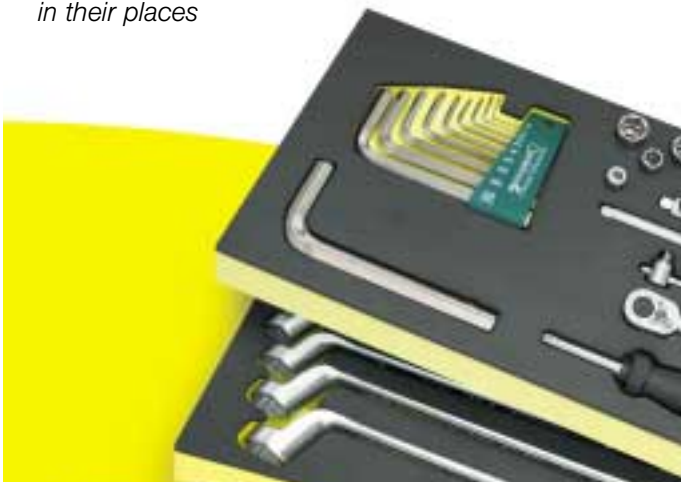


Code	No	g	Box
96700701	108/6 D	450	1
96700702	108/6 Pc	424	5

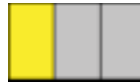


Tool Control System The safety inlay system

- Designed to fit our Tool Trolleys and Tool Boxes
- With yellow signal cut-outs to show whether all tools are in their places



TCS 102-109/10956/10960/6



175 x 350 x 40 mm, 6 pieces

Code	g
96838181	1500
No 10956	∅ 35 mm
No 10960	500 g
No 102	175 mm
No 108	150 x 6; 175 x 6 mm
No 109	size 6; 100 x 3.4 mm

TCS 102-108/10957/10960/12



530 x 350 x 40 mm, 12 pieces

Code	g
96830170	2415
No 102	200 mm
No 103	150 mm
No 105	120 x 10 mm
No 108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
No 10957	∅ 40 mm
No 10960	500; 800 g
No 12718	

TCS 102-108/10957/10960/13



530 x 350 x 60 mm, 13 pieces

Code	g
96830177	5540
No 102	200; 300 mm
No 103	175 mm
No 105	120 x 12 mm
No 108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
No 10957	∅ 50 mm
No 10960	500; 800; 1000 g

10670 Three square engineers scrapers

special steel.



Code	L mm	△△ g	📦
72 06 00 01	205	76	5
72 06 00 02	230	84	5
72 06 00 03	255	105	5
72 06 00 04	275	115	5
72 06 00 05	300	148	5

10672 Flat engineers scrapers

special steel.



Code	mm	△△ g	📦
72 05 00 04	20 x 305	206	5
72 05 00 05	25 x 365	364	5

10676 Three square engineers bearing scrapers

special steel.



Code	mm	△△ g	📦
72 08 00 02	69 x 11 x 255*	105	5
72 08 00 03	85 x 12 x 305	146	5

* to be discontinued

12025 Engineers file, round



Code	L mm	△△ g	📦
72 12 00 00	200	96	5

12030 Engineers file, half round



Code	L mm	△△ g	📦
72 13 00 00	250	285	5

12035 Engineers file, three-square



Code	L mm	△△ g	📦
72 14 00 00	200	167	5

12036 Engineers file, hand



Code	L mm	△△ g	📦
72 17 00 02	250	335	5

12200 Hand vice

forged C 35,
width of jaws 48 mm.



Code	L mm	△△ g	📦
71 20 00 00	145	673	1

12050 Tubular hacksaw

adjustable,
with blade size 300 mm/12".



Code	L mm	△△ g	📦
72 21 00 00	465	490	1

Spare hacksaw blades for No 12050

10 pieces, H.S. Steel, 24 teeth per inch.

Code	L mm	△△ g	📦
79 18 00 01	300	174	1

12053 Hacksaw frame



Code	L mm	△△ g	📦
72 21 00 02	252	159	1

Spare hacksaw blades for No 12053

6 pieces, Chrome Alloy Tool Steel, 32 teeth per inch.

Code	L mm	△△ g	📦
79 18 00 02	158	23	1

ES 10670-13110/11



530 x 350 x 35 mm, 11 pieces

Code		g
96838173		2120
No 10670	255 mm	
No 12025	200 mm	
No 12030	250 mm	
No 12035	200 mm	
No 12036	250 mm	
No 12050	465 mm	
No 12320		
No 12321		
No 12377		
No 12931	3 m	
No 13110	300 mm	
83 81 20 88	Empty tray	301

TCS 11006-12931/8



530 x 350 x 40 mm, 8 pieces

Code		g
96830178		2430
No 11006	400 mm	
No 11007	400 mm	
No 12025	200 mm	
No 12036	250 mm	
No 12374		
No 12600	3000 g	
No 12718		
No 12931	3 m	

905/25 Stud remover set

M 5 - M 16, 3/16" - 5/8", 25 pieces, in green plastic box.

Content:

- 5 HSS twist drills sizes (3.2; 4.8; 6.4; 8; 8.7 mm)
- 5 Fluted Removal Pins sizes 1-5 for threads M 5-M 16
- 5 Splined Nuts, sizes 1-5
- 10 Drill Guides, sizes 1-10



Code	g	
96713025	555	1

906 Spare parts

Removal pins and splined nuts, in pairs in plastic bags.

Code	size	for threads	g	
71310001	1	M5-M6 3/16-1/4"	14	1
71310002	2	M7-M8 1/4-5/16"	20	1
71310003	3	M10 3/8"	33	1
71310004	4	M12 7/16"	46	1
71310005	5	M14-M16 1/2-9/16"	65	1

12000 Universal thread restorers

suitable for inside- and outside threads.



Code	size	L mm	g	
72100004	ISO	230	119	10
72100003	SAE	230	118	10
72100002	WW	230	122	10

ISO	Ww	SAE/US
Pitch mm	threads per inch	threads per inch
0.80	5	24
1.00	6 + 7	20
1.25	8 + 9	18
1.50	10 + 11	16
1.75	12	14
2.00	14 + 16	12
2.50	18, 20, 22	11
3.00	24 + 27	10

12665 Screw pitch gauge

0.25 to 6 mm and 4 to 62 t.p.i. (metric/Whitworth threads).



Code	size	g	
77270003	52	79	10

900/6Pc Screw EXTRACTOR set

in green plastic bag.



Code	Content	g	
96710101	1 each No 900 size 1-6	190	5

900 Screw EXTRACTOR



Code	size	for bolts	mm	"	L mm	recomm. Drill	g		
71 01 0001	1	M3-M4	1/8-5/32"	3	1/8	51	2 mm 5/64"	3	10
71 01 0002	2	M5-M7	3/16-1/4"	3.4	9/64	62	3 mm 7/64"	6	10
71 01 0003	3	M8	1/4"	4.9	3/16	70	5 mm 3/16"	10	10
71 01 0004	4	M10-M12	3/8-7/16"	7	9/32	77	6.4 mm 1/4"	20	5
71 01 0005	5	M14-M16	1/2-9/16"	9	23/64	88	8 mm 5/16"	48	5
71 01 0006	6	M18-M22	5/8-3/4"	12	3/16	98	12 mm 15/32"	92	5

904 Stud remover

- Suitable for all sizes of studs from 6-12 mm
 - Also suitable for percussion screwdriver use.
 - Will cope with rusted or scale-coated screws with a minimum of 3 mm protruding.
- Chuck: size 36 mm
Clamping screw: size 24 mm



Code	mm	g	
71 34 0000	3/8	420	1

12615 Nut splitters

galvanised, for splitting Nuts of quality range up to 8.8 (55 tpsi).



Code	size	for nuts mm	g	
71 25 0001	1	10-18	214	1
71 25 0002	2	19-27	437	1

12615-3 Hydraulic nutsplitter

galvanized; for splitting seized nuts up to quality 10.8. The slim neck allows the tool to be used even in confined spaces. The hydraulic mechanism reduces the effort required considerably.



Note: Because of the compact design, it is not possible to incorporate an automatic blade return mechanism in this nutsplitter. After use, the blade has to be retracted by pushing it back.

Code	for nuts mm	g	
71 25 0003	22-36	2872	1

12900N Vernier calliper

as per DIN 862, vernier readings 1/20 mm and 1/128", stainless steel, c/w plastic pouch.



Code	measuring range mm/"	g	
77 37 1001	150/6	185	1

12900/1N Vernier calliper

with a large digital display, automatic shut-off, switch for mm/inches, depth gauge, RS232C interface, spare battery, differential measurements by means of 0 reset function, display accuracy 0.01 mm / 0.0005", in plastic case.



Code	measuring range mm/"	g	
77 37 1002	150/6	312	1

12900/2N Brake disc gauge

DIN 862, for measuring the thickness of car and motorcycle brake discs in situ, stainless steel, with locking screw and trailing vernier scale (1/10 mm), in leather pouch.



Code	measuring range mm	throat depth mm	g	
77 37 1003	60	55	233	1

12931 Tape measure

with tape lock. Metric-Inch scales.



Code	L m	g	
77 04 0004	3	104	10

12935N Workshop micrometers

chrome plated.



Code	size	measuring range mm	Pitch mm	g	
77 41 1001	1	0-25	1/2	297	1
77 41 1002	2	25-50	1/2	461	1
77 41 1003	3	50-75	1/2	601	1
77 41 1004	4	75-100	1/2	809	1

13110 Steel rule

Metric-Inch scales, length 300 mm.



Code	size	Divisions Top Edge "	Divisions Lower Edge mm	Δ	g	
77460001	1	1/16, 1/32, 1/64	0.5; 1	76	5	

12915 Ratchet tap holders

steel, chrome plated



Code	size	Capacity mm	DIN ¹⁾	ISO ²⁾	L mm	Δ	g	
77390001	1	2.0-5.0	M2-8	M1-6	85	180	1	
77390002	2	4.6-8	M5-12	M6-12	110	305	1	
77390003	3	2.0-5.0	M2-8	M1-6	250	251	1	
77390004	4	4.6-8	M5-12	M6-12	300	428	1	

¹⁾ for taps DIN

²⁾ for taps ISO

12800 Set warding files

6 pieces, in Pc-wallet, DIN 7283, Content: 1 file each, hand, flat, half round, three square, square, round



Code	L mm	Δ	g	
72230001	100	111	5	

13100 Set of needle files

6 pieces, in plastic wallet, Content: 1 file each, round, half round, three square, square, hand, flat



Code	L mm	Δ	g	
96722801	140	46	1	

12932 Padlock



Code	Δ	g	
77210002	85	1	

12250 Force feed oil can

metal container, brass pump. Content: 500 ccm



Code	Δ	g	
77010001	270	1	

12251 Plastic oil can

Content: 250 ccm



Code	Δ	g	
77110002	80	5	

12300* Set magneto spanners

on ring, 11 pieces. Content: 8 Spanners 4-7.5 mm, 1 Feeler Gauge Blade, 1 Screwdriver Blade, 1 Contact File Blade



Code	Δ	g	
40140000	40	10	

* to be discontinued

12320 Electricians cable knife

with stainless blade.



Code	Blade mm	Δ	g	
77020000	90	81	10	

12321 Engineers scribe



Code	L mm	Δ	g	
77100000	250	45	10	

12374 Wire brush

wood, steel wire dia. 0.35 mm.



Code	L mm	Rows	⚖ g	📦
77 09 0000	290	4	129	10

12377 Wire brush

with brass coated steel bristles.



Code	L mm	⚖ g	📦
77 09 00 10	270	140	24

12378 File brush



Code	L mm	⚖ g	📦
77 25 0000	260	74	5

13115 Brass wire brush

for use on light alloys.



Code	L mm	Rows	⚖ g	📦
77 47 0001	280	4	134	1

12481 Scraper



Code	L mm	b mm	⚖ g	📦
77 07 0000	212	60	65	10

12600 Magnetic lifters



Code	lifting power g	∅ mm	L mm	⚖ g	📦
77 26 00 27	270 ¹⁾	5	500	25	1
77 26 00 25	500	8	460	80	1
77 26 00 60	1800	15	520	230	1
77 26 02 00	3000	19	520	297	1

¹⁾ Miniature magnetic lifter with tiny head, very powerful

12910 Adjustable hook spanners

for slotted nuts as per DIN 1810, adjustable.



Code	size	∅ mm	⚖ g	📦
44 01 00 01	1	20– 42	90	5
44 01 00 02	2	45– 90	245	5
44 01 00 03	3	95– 165	686	5

12920N Telescopic mirror

with non-twisting, oval-section telescopic rod.



Code	mm	L mm	⚖ g	📦
77 40 10 01	65 x 43	200–560	65	1

12920NR-1 Replacement mirror

Code	⚖ g	📦
79 40 10 01	43	1

12920NR-2 Stainless steel replacement mirror for No 12920N

Code	⚖ g	📦
79 40 10 02	43	1

12921N Telescopic mirrors



Code	∅ mm	L mm	⚖ g	📦
77 40 10 30	30	180–530	108	1
77 40 10 40	40	180–530	112	1
77 40 10 50	50	180–530	135	1
77 40 10 60	60	180–530	150	1

12921NR Replacement mirror

Code	∅ mm	⚖ g	📦
79 40 10 30	30	10	1
79 40 10 40	40	15	1
79 40 10 50	50	20	1
79 40 10 60	60	27	1

13120 Telescopic mirror

with illumination and concave mirror, in wooden box, with battery.



Code	∅ mm	L mm	⚖ g	📦
77 48 00 01	55	350–800	1005	1

12922 Claw lifter



Code	∅ mm	L mm	⚖ g	📦
77400003	7	525	101	5

12941 Soldering gun

230 V, 50-60 Hz, 100 W.



Code	⚖ g	📦
77420002	1100	1

Replacement tips for soldering gun No 12941

Code	No	Sizes	⚖ g	📦
79140002	12941/R1	thick	20	1
79140003	12941/R2	medium	19	1
79140004	12941/R3	fine	18	1

12942 Soldering iron

230 V, 50-60 Hz, 20/40 W.



Code	⚖ g	📦
77420003	130	1

12943 Soldering iron

230 V, 50-60 Hz.



Code	W	⚖ g	📦
77420004	20	104	1
77420005	30	105	1
77420006	50	110	1

Replacement tips for No 12942, 12943

Code	No	⚖ g	📦
79140005	12942R	14	1

12965 Universal cutter

with hole for hanging up and 5 spare blades in handle, blade is adjustable by moving slide, suitable for cutting card, rubber, leather, wood.



Code	L mm	⚖ g	📦
77620001	160	178	1

12965-1 Safety knife

In holster, very high-grade, sturdy design, with 3-way adjuster, completely retractable blade. With hanging hole and holster with belt clip. Supplied with one blade mounted and one spare blade in the magazine. Easy blade changing and no need for tools. The magazine has space for 5 blades inside.



Code	L mm	⚖ g	📦
77620002	220	327	1

12965R Spare blades

5 pieces.

Code	⚖ g	📦
79250001	19	20

13126 Torch

ABS body with high-impact polycarbonate lens. Approved by FM, CSA, AUS and MSHA as non flammable. Laser-SPOT™ xenon lamp module generates a finely focussed white collimation light beam with a net intensity up to 400% higher than normal. 12.000 candlepower. With black rubber lens protection. Conforms to US military regulations - Class I Div. 1 USAR. Takes 3 alkali batteries (C) (not included). Suitable for underwater use. Waterproof up to 100 m.



Code	L mm	⚖ g	📦
77490002	191	160	1

13127 Torch

Made of high-impact polycarbonate resin developed for space use. Focused beam; with light deflector. Approved by FM, SA, and CENELEC as non flammable. Suitable for underwater use. Waterproof to 150 m. Consisting of: torch, light deflector for deflecting beam through 90°, 2 alkali batteries (AAA).



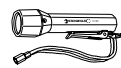
Code	L mm	△△ g	☐
77 49 00 03	120	65	1

TCS 13126/13127/2



175 x 350 x 60 mm, 2 pieces

Code	△△ g
96 83 00 14	475



No 13126



No 13127

Spares for torches

Code	for No	△△ g	☐
79 49 00 02	13126 (Spare lens)	33	1
79 49 00 03	13127 (Spare lens)	7	1
79 49 00 04	13126 (Bulb unit)	25	1
79 49 00 05	13127 (Bulb unit)	10	1

13130 Tweezers

straight, blunt, finely milled inside, stainless steel.



Code	L mm	△△ g	☐
77 50 00 01	160	25	5

13131 Tweezers

bent, blunt, finely milled inside, stainless steel.



Code	L mm	△△ g	☐
77 51 00 01	150	22	5

13135 Wire cutter

with smooth cutting edges, nickel-plated, plastic covered handles.



Code	L mm	△△ g	☐
75 27 00 01	145	93	1

And certified to DIN EN ISO 9001

After STAHLWILLE was certified,
as one of the very first companies back in 1990,
to DIN EN ISO 9002, our Quality Assurance System
was also certified to DIN EN ISO 9001 in 1992.





STAHLWILLE pullers

Designed with practical applications in mind, drop forged, precision machined on the latest machine tools, hardened and tempered. STAHLWILLE pullers are conscientiously assembled and tested under load. They are ideal tools for removing gearwheels, ball bearings and pulleys from shafts, axles etc.

Product benefits at a glance:

- *high flexural strength thanks to struts with accurately calculated profiles and milled, smooth guides.*
- *highly load-bearing extractor hooks made of oil-hardened chrome vanadium steel with milled-profile jaws and specially-designed grip geometry for use in confined spaces and optimised radii for shafts and axles.*
- *smooth running and high force transmission through the nut with its hard-wearing, smooth thread contours.*
- *high extraction force with ease is made possible even where there is high friction and counterforces due to the CNC milled precision thread.*
- *damage to the thread of the nut is effectively prevented, even if the full length of the thread is used, due to the clearance at the end of the thread.*
- *excellent running characteristics of the thread itself thanks to high-grade hardening and tempering and the special coatings on the thrust spindles.*
- *to enable stubborn parts to be loosened, it may be necessary to tap the puller with a hammer after it has been tensioned. For this reason, the spindle head is equipped with a rounded impact head.*
- *close-tolerance, performance-matched jaw sizes on the spindle head ensure non-slip contact with the drive tool.*
- *to prevent damage to the shafts while extraction force is applied, the centre is freely-swivelling.*



How a two arm puller works

Battery terminal puller in use on a car battery





Separating fixture
in use for removing
ball bearings

Puller in use
for removing
gearwheels

Numerous pullers are available for different applications.

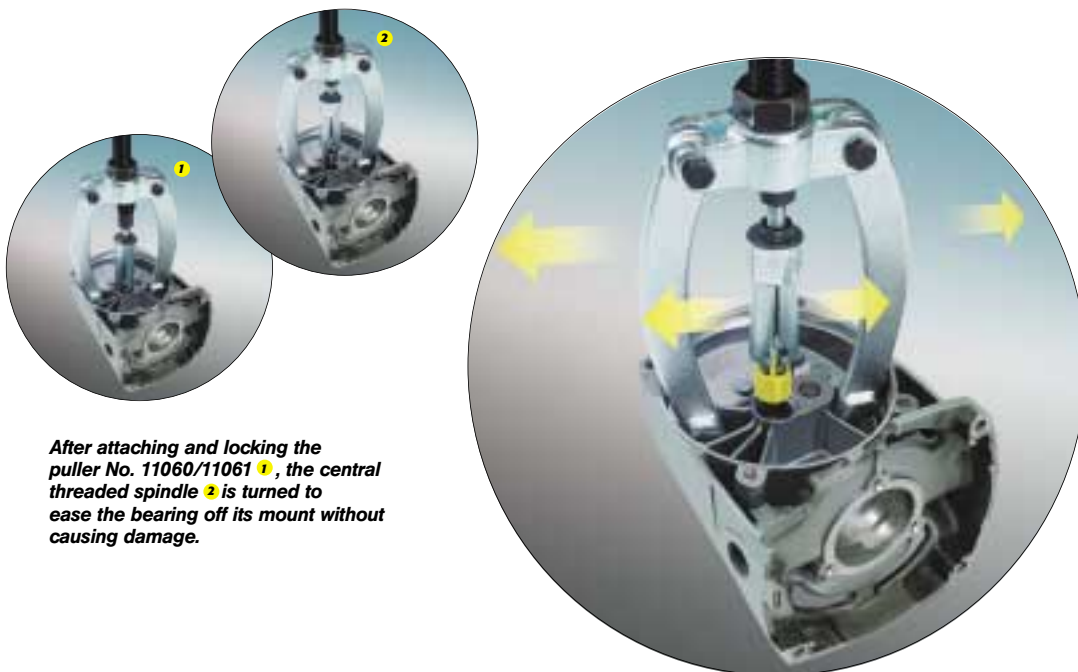
- Standard pullers
- Battery terminal pullers
- Ball joint separators
- Internal pullers
- Counter stays
- Separating fixtures
- Wheel hub pullers



Standard pullers

Two- or three-armed puller?

A three-armed puller is generally preferable to a two-armed one provided there is sufficient space because it distributes the pulling forces more evenly.



After attaching and locking the puller No. 11060/11061 ①, the central threaded spindle ② is turned to ease the bearing off its mount without causing damage.

11050 Standard pullers

two-armed, with sliding permanently parallel extractor hooks, zinc plated; for extracting gearwheels, ball bearings, pulleys and similar parts from shafts or axles; for removing ball bearings, bearing outer races and bushes from holes; hooks can be used as internal or external hooks.



Code	size	Clamp. width mm	Clamp. depth mm	△△ g	☐
71 130001	1	90	100	1053	1
71 130002	2	120	100	1203	1
71 130003	3	160	150	2700	1
71 130004	4	200	150	2998	1
71 130005	5	250	200	7056	1
71 130006	6	350	200	7671	1

H 11050 Arms for pullers No 11050/11051

Code	size	for puller No	△△ g	☐
79 130001	1	11050-1, -2 11051-1, -2	270	1
79 130002	3	11050-3, -4 11051-3, -4	580	1
79 130003	5	11050-5, -6	1615	1

11053 Standard pullers

two-armed, with swivelling extractor hooks for larger reaches, zinc plated; for extracting gearwheels, ball bearings, pulleys and similar parts from shafts or axles; hooks can be used as internal or external hooks; for internal extraction, simply turn the hooks and spindle round; the large leverage effect ensures a firm grip on the part to be extracted, whether internal or external.



Code	size	Clamp. width mm	Clamp. depth mm	△△ g	☐
71 150201	1	300	280	5324	1
71 150202	2	400	400	6460	1

11051 Standard pullers

three-armed, with sliding permanently parallel extractor hooks, zinc plated; for extracting gearwheels, ball bearings, pulleys, fan wheels and similar parts from shafts or axles; for removing ball bearings, bearing outer races and bushes from holes; hooks can be used as internal or external hooks.



Code	size	Clamp. width mm	Clamp. depth mm	△△ g	☐
71 080001	1	90	100	1213	1
71 080002	2	120	100	1499	1
71 080003	3	160	150	3418	1
71 080004	4	200	150	3705	1

11054 Pullers

three-armed, with swivelling extractor hooks for larger reaches, zinc plated; for extracting gearwheels, ball bearings, pulleys and similar parts from shafts or axles; hooks can be used as internal or external hooks; for internal extraction, simply turn the hooks and spindle round; the efficient leverage effect forces the hooks firmly onto the part to be extracted.



Code	size	Clamp. width mm	Clamp. depth mm	△△ g	☐
71 150301	1	300	280	7715	1
71 150302	2	400	400	8534	1

11056 Set: Pullers

consisting of the most common two- and three-armed pullers with two- and three-armed, sliding, parallel extractor hooks.

for extracting gearwheels, ball bearings, pulleys and similar parts from shafts or axles; hooks can be used as internal or external hooks; the efficient leverage effect forces the hooks firmly onto the part to be extracted.



Code	Clamp. width mm	Clamp. depth mm	△△ g	☐
9671 1301	120	100/200/250	8600	1

12150 Pullers

two-armed version with swivelling, double-action extractor hooks, zinc plated;
for extracting gearwheels, ball bearings, pulleys and similar parts from shafts or axles;
for removing ball bearings, bearing outer races and bushes from holes;
for internal extraction, simply swivel the hooks and turn the spindle round or just turn the hooks round.



Code	size	Clamp. width mm	Clamp. depth mm	⚖ g	📦
71 140201	1	150	85	795	1
71 140202	2	220	130	2160	1

12152 Three arm pullers

three-armed version with swivelling, double-action extractor hooks, zinc plated;
for extracting gearwheels, ball bearings, pulleys and similar parts from shafts or axles;
for removing ball bearings, bearing outer races and bushes from holes;
for internal extraction, simply swivel the hooks and turn the spindle round or just turn the hooks round.



Code	size	Clamp. width mm	Clamp. depth mm	⚖ g	📦
71 140301	1	150	85	1024	1
71 140302	2	220	130	2745	1

11055 Two arm pullers

two-armed, with swivelling extractor hooks and lateral clamp clip, zinc plated;
when the clamp clip is tightened, the claws of the extractor hooks locate under the part to be extracted and lever it free as force is applied before extraction begins;
for extracting gearwheels, ball bearings, pulleys, drop arms and similar parts from shafts or axles;
the clamp clip presses the extractor hooks firmly against the part being extracted.



Code	size	Clamp. width mm	Clamp. depth mm	⚖ g	📦
71 190001	1	80	90	1220	1
71 190002	2	100	100	2088	1
71 190003	3	150	140	3362	1

11040 Battery terminal puller

two-armed, with a self-centring quick-action clamp and automatic feed, zinc plated;
for extracting battery terminal clamps, smaller ball bearings, pulleys etc.;
as force is applied through the spindle, the extractor hooks automatically apply increasing force to the part being extracted;
particularly suited to car electrics, compressed air system repairs and similar applications due to the compact design and small hooks.



Code	size	Clamp. width mm	Clamp. depth mm	⚖ g	📦
71 120001	1	60	50	214	1
71 120002	2	70	70	240	1
71 120003	3	80	80	270	1

11042 Battery terminal puller

three-armed, with a self-centring quick-action clamp and automatic feed, zinc plated;
for extracting battery terminal clamps, smaller ball bearings, pulleys etc.;
as force is applied through the spindle, the extractor hooks automatically apply increasing force to the part being extracted;
particularly suited to car electrics, compressed air system repairs and similar applications due to the compact design and small hooks.



Code	size	Clamp. width mm	Clamp. depth mm	⚖ g	📦
71 180001	1	60	50	301	1
71 180002	2	70	70	341	1
71 180003	3	80	80	364	1

11060 Internal puller

for extracting ball bearings, bearing outer races and bushes, zinc plated;
to be used with Counter Stay No 11061;
even bearings which are tight up against the walls are securely gripped due to the excellent clamping effect.



Code	size	Clamp. width mm	⚖ g	📦
71 160000	0	8-12	92	1
71 160001	1	12-16	166	1
71 160011	1a	14-19	181	1
71 160002	2	18-23	206	1
71 160003	3	20-30	200	1
71 160004	4	28-40	361	1
71 160005	5	36-46	667	1
71 160006	6	45-58	1187	1
71 160007	7	56-70	1426	1
71 160008	8	70-100	2573	1

11061 Counter stay

to be used with Internal Puller No 11060; zinc plated; insert and open up the internal puller; screw the spindle of the counter-stay into the internal puller; extract the workpiece.



Code	size	suitable for No 11060	g	g	g
71 17 0001	1	0 - 1a with reduction unit, 2 - 4 without reduction unit	613	1	1
71 17 0002	2	2 - 4 with reduction unit, 5 - 7 without reduction unit	1569	1	1
71 17 0003	3	8 with connecting unit	3702	1	1

Counter Stays sizes 1 and 2 are supplied with reduction unit screwed on. Application as per table above.

12613 Separating fixture

zinc plated; for use with No 12614 of same sizes; for separating and extracting ball bearings, roller bearings, bushes, wheels and other tightly fitting parts; applying uniform pulling force to the side bolts will gently separate workpieces; apply puller No 12614; apply force to pull off.



Code	size	Clamp. width mm	Opening mm	g	g
71 03 0000	0	5-60	60	676	1
71 03 0001	1	12-75	75	990	1
71 03 0002	2	22-115	115	2760	1
71 03 0003	3	30-155	155	5310	1

12614 Pullers

zinc plated; for use with No 12613 of same sizes; for extracting ball bearings, roller bearings, bushes, wheels and other tight fitting parts; the puller is connected to separator No 12613 to enable the workpiece to be extracted.



Code	size	Clamp. width mm	Extraction bolts mm	g	g
71 04 0000	0	50-110	150	888	1
71 04 0001	1	60-150	200	1983	1
71 04 0002	2	60-200	250	3465	1
71 04 0003	3	80-300	300	6309	1

V 12614 Extensions

for use with puller No 12614; extensions for the extraction bolts on the puller for use with longer workpieces.



Code	size	for No	L mm	g	g
79 44 0001	1	12614-0, -1	100	229	1
79 44 0002	2	12614-2	100	550	1
79 44 0003	3	12614-3	100	672	1

11030 Universal wheel hub puller

with three extractor hooks, zinc plated; for extracting wheel hubs on HGV's and cars up to a hole diameter of 225 mm; the axially mounted threaded bush enables the workpiece to be freed by gently tapping the end of the spindle.



Code	size	Arms	g	g
71 11 0003	1	3	4145	1
71 11 0005	2	5	5336	1

11035 Arms for No 11030

Code	g	g
79 10 0000	475	1

11030-6 Universal wheel hub puller

with six extractor hooks, zinc plated; for extracting HGV wheel hubs up to a hole diameter of 350 mm; the slot-guided extractor hooks have extra long reach and are absolutely non-slip; gentle tapping on the end of the spindle will free tightly fitting parts.



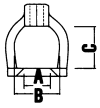
Code	Clamp. depth mm	g	g
71 11 0006	150	15700	1

H 11030 Arm for No 11030-6

Code	g	g
79 10 0001	4100	1

11041 Ball joint separators

for forcing out ball pins on vehicles, zinc plated.



Code	size	A mm	B mm	C mm	g	g	g
71 23 0001	1	18	36	38	290	1	1
71 23 0002	2	23	45	48	485	1	1
71 23 0003	3	29	60	60	875	1	1
71 23 0004	4	40	60	80	1586	1	1

size 1 for passenger vehicles
size 2 for passenger vehicles and vans
size 3 + 4 for trucks

Spindles

Code	No	for puller No	g	g	g
79 28 0001	SP 11040-1	11040-1, -2; 11042-1, -2	60	1	1
79 28 0002	SP 11040-3	11040-3; 11042-3	68	1	1
79 28 0003	SP 11050-1	11050-1, -2; 11051-1, -2, 12150-1, 12152-1	186	1	1
79 28 0004	SP 11050-3	11050-3, -4; 11051-3, -4, 12150-2, 12152-2	580	1	1
79 28 0005	SP 11050-5	11050-5, -6; 11053-1; 11054-1	1250	1	1
79 28 0006	SP 11055-1	11055-1	229	1	1
79 28 0007	SP 11055-2	11055-2	388	1	1
79 28 0008	SP 11055-3	11055-3	580	1	1
79 28 0009	SP 11041-1	11041-1	57	1	1
79 28 0010	SP 11041-2	11041-2	112	1	1
79 28 0011	SP 11041-3	11041-3	175	1	1
79 28 0012	SP 11041-4	11041-4	140	1	1
79 28 0013	SP 11053-2	11053-2; 11054-2	1725	1	1

12616 Universal ball joint separator

zinc plated, DIN/ISO 7803,
for extracting ball-joints on cars and
light delivery vans.



Code	size	Fork opening mm	Clear height mm	g	g
71 05 0000	1	18-22	20-50	795	1

12623 Ball joint separator

zinc plated; for extracting ball-joints
especially on BMW,
DaimlerChrysler, Fiat, Ford, Nissan,
Opel, Toyota, VW/Audi and Volvo
cars.



Code	Fork opening mm	g	g
71 05 0001	20	1280	1

12623-1 Ball joint separator

for vehicles with aluminium chassis;
zinc plated;
for extracting ball-joints,
especially on AUDI A6 and A8 after
model year 1999 and for other
vehicles with limited work space.



Code	Fork opening mm	g	g
71 05 0002	30	1947	1

12623-2 Ball joint separator

on medium-sized commercial
vehicles, buses and construction
site vehicles; zinc plated.



Code	Fork opening mm	g	g
71 05 0003	34	3035	1

12623-3 Ball joint separator

on heavy goods vehicles, buses
and construction site vehicles;
zinc plated.



Code	Fork opening mm	g	g
71 05 0004	40	3194	1

12623-4 Ball joint separator

on medium-sized and heavy HGV's,
buses and construction site and
other special vehicles; zinc plated



Code	Fork opening mm	g	g
71 05 0005	36	4139	1

And certified to DIN EN ISO 9001

After STAHLWILLE was certified,
as one of the very first companies back in 1990,
to DIN EN ISO 9002, our Quality Assurance System
was also certified to DIN EN ISO 9001 in 1992.





STAHLWILLE special-purpose tools for the automotive industry

Together with leading automotive manufacturers, STAHLWILLE develops special-purpose tools and brand-specific sets of tools. This continuous development and enhancement process covering tools for production and workshops ensures that the tools we make keep pace with the latest developments in the industry.

Tidy tool management STAHLWILLE tool sets for car repairs

Carefully selected suites of tools for Tool Trolleys and Tool Boxes ensure optimised workflows. Whether it is in the garage, in production or in the pits, many mechanics welcome the benefits afforded by model and marque specific tools to guarantee safe, timesaving work.



A key factor Special crow-foot spanners

Special-purpose tools for individual vehicle models are part of the STAHLWILLE tradition. This combined tool with interchangeable crow-feet for three different sizes is ideal for setting valves and the idle stop on injection pumps.

Problem solver STAHLWILLE special- purpose car pliers

Often enough, corroded or jammed parts in hard-to-reach places slow down repair and servicing jobs in the engine space. With diesels, this includes the heater plug sockets. STAHLWILLE's heater plug socket pliers make it that much easier to remove and refit these plug sockets, especially when the engine is still hot.





Better safe than sorry
STAHLWILLE sockets

It would be hard to imagine garage and production environments without compressed air tools. Hardly surprising, then, that STAHLWILLE offer such a wide range of tried-and-tested, job-specific sockets, e. g. the wheel-nut socket with the closely-fitting plastic sleeve.



This prevents damage to wheel bolts, wheel nuts and the bolt holes especially on alloy wheels.

The specialists
STAHLWILLE KABELEX®

Efficiency and economy in the workplace – at a time when it pays to be competitive, removing cables on vehicles safely and quickly gives you that advantage. This is why STAHLWILLE offers over 40 different cable removing tools for cars.

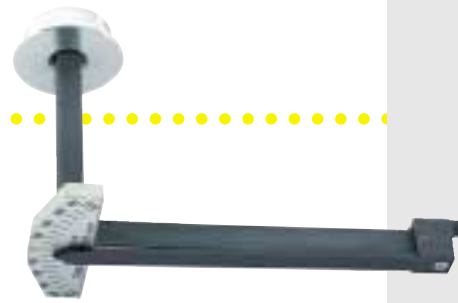


Unbreakable Special tools for car glass

The professionals really appreciate STAHLWILLE products for quickly and



accurately removing and fitting car glass. Twin suction lifters and a three-component glass removal set ensure that windscreens and other car glass are easily and safely removed, fitted and transported.



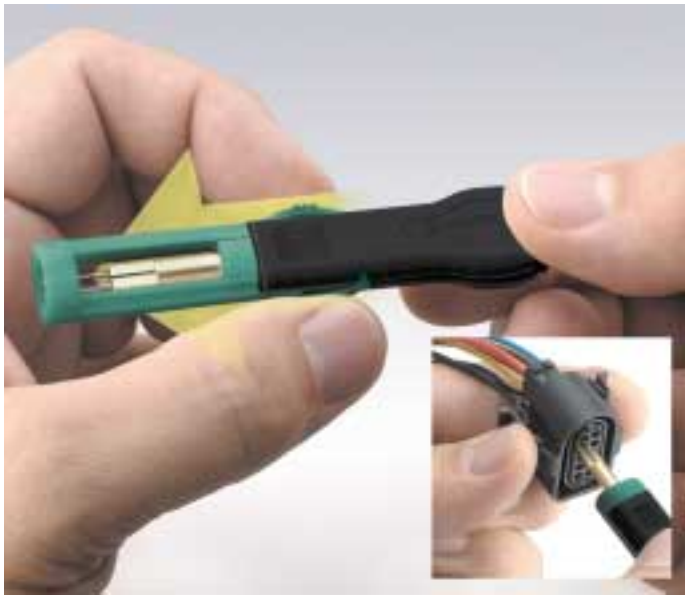
A question of torque
Special torque wrench for cars

Setting steering systems accurately is a critical job – and adhering to torque settings and coefficients of friction is a crucial part of it. This is what STAHLWILLE created the easily-operated special-purpose tool for – No 73 Nm/04 with a range of 0-400 cN m.



Thick or thin
Measuring the thickness of brake discs

Checking the state of the brake discs is a valuable contribution to safety on the roads. STAHLWILLE offers a vernier calliper which enables the garage to easily check the discs in situ and compare the dimensions with the manufacturer's instructions.



STAHLWILLE KABELLEX® Protect

For workshops and cable configuration
(Kabelex table see page 341)

- **Bicoloured handle, registered design:**
 - with locking blade cover, to protect the fine blade and guard against injury.
 - easier to handle for fine and intricate work on miniature connectors.
- **Releases cable connectors quickly and easily without cutting them off - saves time and money.**
- **Completely reviewed series, also available in carefully selected sets.**
- **Special sets for vehicle makes: BMW, DaimlerChrysler, Opel, VW/Audi/Seat/Skoda/Porsche, MAN/Volvo and Renault/PSA**
- **Over 40 different cable extractors available.**
- **Blades made of extremely tough and durable chrome vanadium and special spring steel.**

1510 VW/Audi

Tool set KABELLEX®

11 pieces, for VW/Audi, Seat, Skoda, Porsche.

Content:

No 1501, 1502: ejection tools for contact sizes

∅ 1.5 and 3.5 mm

No 1511, 1512: dismantling sleeves for contact sizes ∅ 1.5 and 3.5 mm

No 1553, 1557, 1558, 1591: cable extractor tools for contact sizes □ 2.8; 4.8 and 5.8 mm

No 1556: cable extractor tool for Micro-Timer II, III contacts □ 1.6 mm

No 1556-1: cable extractor tool for flat plug-in sockets with asymmetrically positioned latches in terminals with two release channels □ 0.64 mm

No 1574: cable extractor tool for Micro Timer I contacts □ 1.6 mm



Code



g



96 74 62 03

1070

1

1520

Daimler Chrysler

Tool set KABELLEX®

16 pieces, for DaimlerChrysler.

Content:

No 1501, 1504, 1508: ejection tools for contact sizes ∅ 1.5 and 2.5 mm

No 1511, 1514, 1518: dismantling sleeves for contact sizes ∅ 1.5 and 2.5 mm

No 1553, 1591: cable extractor tools for contact sizes □ 2.8 and 5.8 mm

No 1556: cable extractor tool for Micro-Timer II, III contacts □ 1.6 mm

No 1559: cable extractor tool for Maxi-Power Timer contacts □ 9.5 mm

No 1578K-1: cable extractor tools for SLK contacts (primary) □ 2.8 mm

No 1578K-2: cable extractor tool for SLK contacts 97 (primary and secondary) □ 2.8 mm

No 1584, 1585: cable extractor tools for soldered contacts with contact ∅ 2.5 and 4.0 mm

No 1587: cable extractor tool for flat plug-in sockets, E-95 contacts □ 1.65 mm

No 1589K: cable extractor tool for flat plug-in sockets, LSK contacts □ 8 mm



Code



g



96 74 62 04

2040

1

1540 Opel Tool set KABELEX®

17 pieces, for Opel/GM.

Content:

No 1501, 1502, 1505: ejection tools for contact sizes

∅ 1.5; 3.5 and 2.3 mm

No 1511, 1512, 1515: dismantling sleeves for contact sizes

∅ 1.5; 3.5 and 2.3 mm

No 1553: cable extractor tool for contact sizes □ 2.8 mm

No 1556: cable extractor tool for Micro-Timer II, III contacts
□ 1.6 mm

No 1562: cable extractor tool for flat plug-in sockets, Pit-Pod contacts

No 1563, 1564, 1565, 1566, 1567, 1568: cable extractor tools for Ducon
contacts with contact sizes 0.8; 1.5; 2.8; 4.8; 6.3 and 9.5 mm

No 1574: cable extractor tool for Micro-Timer I contacts and ABS plug-in
housing □ 1.6 mm

No 1591: cable extractor tool for contact sizes □ 2.8 and 5.8 mm



Code	g	g	g
96746206	1780	1	

1550 BMW Tool set KABELEX®

13 pieces, for BMW.

Content:

No 1501, 1502, 1504, 1508: ejection tools for contact sizes

∅ 1.5; 3.5 and 2.5 mm

No 1511, 1512, 1514, 1518: dismantling sleeves for contact sizes

∅ 1.5; 3.5 and 2.5 mm

No 1553: cable extractor for plugs with single release channel □ 2.8 mm
and 5.8 mm

No 1578K-1: cable extractor for SLK contacts (primary) □ 2.8 mm

No 1578K-2: cable extractor for SLK contacts 97 (primary and secondary)
□ 2.8 mm

No 1591: cable extractor tool for contact sizes □ 2.8 and 5.8 mm

No 1589K: cable extractor tool for flat plug-in sockets, LSK contacts

□ 8 mm



Code	g	g	g
96746207	1795	1	

1700 MAN/Volvo Tool set KABELEX®

14 pieces, for MAN/Volvo, DaimlerChrysler trucks.

Content:

No 1501, 1502, 1503, 1506: ejection tools for contact sizes

∅ 1.5; 3.5; 4.0 (ABS) and 4.0 mm

No 1511, 1512, 1513, 1516: dismantling sleeves for contact sizes

∅ 1.5; 3.5; 4.0 (ABS) and 4.0 mm

No 1523: assembly sleeve (ABS)

No 1553, 1591: cable extractor tools for contact sizes

□ 2.8 and 5.8 mm

No 1576: cable extractor tool for flat plugs without box □ 2.8 mm

No 1577: cable extractor tool for VKR Box contacts □

No 1577-1: cable extractor tools for MKR/MKS contacts □ 1.5 mm



Code	g	g	g
96746208	1815	1	

1720 Renault/PSA Tool set KABELEX®

7 pieces, for Renault/PSA (Citroën and Peugeot).

Content:

No 1505: ejection tool for contact sizes ∅ 2.3 mm

No 1515: dismantling sleeve for contact sizes ∅ 2.3 mm

No 1553, 1554, 1591: cable extractor tools for contact sizes

□ 2.8 and 5.8 mm

No 1556: cable extractor tool for Micro-Timer II, III contacts

□ 1.6 mm

No 1574: cable extractor tool for Micro-Timer I contacts □ 1.6 mm



Code	g	g	g
96746210	670	1	

1730
Porsche



Tool set KABELEX®

16 pieces, for Porsche.

Content:

- No 1504, 1509: ejection tools for contact sizes \varnothing 2.5 and 2.3 mm
- No 1514, 1519: dismantling sleeves for contact sizes \varnothing 2.5 and 2.3 mm
- No 1555-2P, No 1556-2P, No 1556-3P, No 1575-1P, No 1575-2P, No 1576-1P, No 1576-2P, No 1577-2P: cable extractor tools for flat plug-in sockets
- No 1562: cable extractor tool for Pit-Pod contacts
- No 1574: cable extractor tool for Micro-Timer I contacts and ABS plug-in housing \square 1.6 mm
- No 1587: cable extractor tool for flat plug-in sockets, E-95 contacts \square 1.65 mm
- No 1591: cable extractor tool for contact sizes \square 2.8 and 5.8 mm
- 1 application documentation



Code		
	g	
96 74 62 09	1639	1

1730/1
Porsche-Cayenne

Tool set KABELEX®

8 pieces, for Porsche Cayenne.

Content:

- No 1555-1P, No 1555-2P, No 1556-2P, No 1575-1P, No 1584-1P, No 1589-1P: cable extractor tools for flat plug-in sockets
- No 1574: cable extractor tool for Micro-Timer I contacts and ABS plug-in housing \square 1.6 mm
- No 1591: cable extractor tool for contact sizes \square 2.8 and 5.8 mm
- 1 application documentation



Code		
	g	
96 74 62 11	975	1

1560



Tool set KABELEX®

10 pieces, for round plug connections (incl. ABS).

Content:

- 1 each No 1501: ejection tool for contact sizes \varnothing 1.5 mm
- 1 each No 1502: ejection tool for contact sizes \varnothing 3.5 mm
- 1 each No 1503: ejection tool for contact sizes \varnothing 4.0 mm assembly or dismantling sleeve (ABS)
- 2 each No 1511: dismantling sleeves for contact sizes \varnothing 1.5 mm (1 each mounted)
- 2 each No 1512: dismantling sleeves for contact sizes \varnothing 3.5 mm (1 each mounted)
- 2 each No 1513: dismantling sleeves for contact sizes \varnothing 4.0 mm (1 each mounted)
- 1 each No 1523: assembly sleeve (ABS)



Code		
	g	
96 74 62 01	520	1

1570/1



Basic set KABELEX®

6 pieces.

Content:

- No 1501, 1502: ejection tools for contact sizes \varnothing 1.5 and 3.5 mm
- No 1511, 1512: dismantling sleeves for contact sizes \varnothing 1.5 and 3.5 mm
- No 1553, 1591: cable extractor tools for contact sizes \square 2.8 and 5.8 mm



Code		
	g	
96 74 63 03	710	1

1570/2 Universal set KABELEX®

12 pieces.
 Content:
 No 1501, 1502, 1505: ejection tools for contact sizes
 Ø 1.5; 3.5; 2.3 mm
 No 1511, 1512, 1515: dismantling sleeves for contact sizes
 Ø 1.5; 3.5; 2.3 mm
 No 1553: cable extractor tool for plugs with one release channel
 □ 2.8 and 5.8 mm
 No 1556: cable extractor tool for Micro-Timer II, III contacts
 □ 1.6 mm
 No 1559: cable extractor tool for Maxi-Power Timer contacts
 □ 9.5 mm
 No 1562: cable extractor tool for Pit-Pod contacts
 No 1574: cable extractor tool for Micro-Timer I contacts and ABS plug-in
 housing □ 1.6 mm
 No 1591: cable extractor tool for plugs with two release channels
 □ 2.8 and 5.8 mm



Code	g	☐
96 74 63 04	1130	1

1590 Tool set KABELEX®

5 pieces, for flat plug-in sockets.
 Content:
 No 1551, 1552: cable extractor tools for flat plug-in sockets
 □ 2.8 and 5.8 mm in terminals with double release channel
 No 1553, 1554, 1555: cable extractor tools for contact sizes
 □ 2.8 and 5.8 mm in terminals with single release channel



Code	g	☐
96 74 62 02	460	1

1501-1508 Ejection tools KABELEX®

for round snap-in receptacles,
 including dismantling sleeve.



Code	No	for contact sizes		☐	☐
		Ø mm	g		
96 74 62 30	1501 + 1511 (e.g. BMW, DaimlerChrysler, Fiat, MAN, Opel, Porsche, Seat, Skoda, VW/Audi)	1.5	37	1	
96 74 62 31	1502 + 1512 (e.g. BMW, DaimlerChrysler, Fiat, MAN, Opel, Porsche, Seat, Skoda, VW/Audi)	3.5	59	1	
96 74 62 32	1503 + 1513 for ABS (trucks) or assembly sleeve No 1523 (e.g. DaimlerChrysler, MAN, Scania)	4.0	79	1	
96 74 62 33	1504 + 1514 (e.g. BMW, DaimlerChrysler, Opel)	2.5	60	1	
96 74 62 34	1505 + 1515 (e.g. Ford, Opel, PSA, Renault)	2.3	46	1	
96 74 62 35	1506 + 1516 (e.g. DaimlerChrysler trucks, MAN, Scania)	4.0	72	1	
96 74 62 36	1507 + 1517 (e.g. Scania gears GRS 900)	1.5	72	1	
96 74 60 37	1508 + 1518 (e.g. BMW, DaimlerChrysler)	1.5	46	1	

1511-1518 Dismantling sleeves KABELEX®



Code	No	for contact sizes			L mm	inside Ø mm	outside Ø mm	☐	☐
		Ø mm	mm	mm					
78 60 00 01	1511 for No 1501	1.5	30	2.9	3.3	1	10		
78 60 00 02	1512 for No 1502	3.5	30	4.4	5.0	1	10		
78 60 00 03	1513 for No 1503	4.0	45	6.0	6.5	1	10		
78 60 00 04	1514 for No 1504	2.5	30	4.0	4.4	1	10		
78 60 00 05	1515 for No 1505	2.3	35	3.0	3.3	1	10		
78 60 00 06	1516 for No 1506 (for MOLEX contacts 4.0 mm)	4.0	35	5.6	6.0	1	10		
78 60 00 16	1516-A for No 1506 (for AMP contacts 4.0 mm)	4.0	30	5.4	5.8	1	10		
78 60 00 07	1517 for No 1507	1.5	26	2.3	2.8	1	10		
78 60 00 18	1518 for No 1508 (3 x 120° slotted)	1.5	32	2.7	3.5	1	5		

1523 Assembly sleeve KABELEX® ABS



Code	No	for contact sizes			L mm	inside Ø mm	outside Ø mm	☐	☐
		Ø mm	mm	mm					
78 61 00 01	1523 for No 1503	4.0	50	4.0	6.5	5	3		

1551/1552 Cable extractor tools KABELEX®

registered design, for flat snap-in
 receptacles e.g. BMW, Ford, Opel,
 Porsche, Seat, Skoda, VW/Audi.



Code	No	for contact sizes		☐	☐
		□ mm	g		
74 62 00 01	1551	2.8	19	1	
74 64 00 02	1552	5.8	19	1	

1553-1555 Cable extractor tools KABELEX®

registered design, for flat plug-in
 sockets locked in terminals with
 single release channel.



Code	No	for contact sizes		☐	☐
		□ mm	g		
74 62 00 03	1553 (e.g. BMW, DaimlerChrysler, Ford, MAN, Opel, Porsche, PSA, Renault, Seat, Skoda, VW/Audi)	2.8; 5.8	16	1	
74 62 00 04	1554 (e.g. BMW, PSA, Renault)	2.8	16	1	
74 62 00 05	1555 (e.g. BMW)	5.8	16	1	

1556 Cable extractor tool KABELEX®

registered design, for flat plug-in sockets, Micro Timer II, III contacts, e.g. DaimlerChrysler, Opel, Porsche, PSA, Renault, Saab, Seat, Skoda, VW/Audi.



Code	for contact sizes □ mm	△△ g	☐
74620006	1.6	17	1

1556-1 Cable extractor tool KABELEX®

registered design, for flat plug-in sockets with asymmetrically positioned latches in terminals with two release channels, Seat, Skoda, VW/Audi.



Code	for contact sizes □ mm	△△ g	☐
74612006	0.64	19	1

1557/1558 Cable extractor tools KABELEX®

registered design, for flat plug-in sockets with asymmetrically positioned latches in terminals with two release channels, Seat, Skoda, VW/Audi.



Code	No	for contact sizes □ mm	△△ g	☐
74620007	1557	2.8	21	1
74620008	1558	4.8	22	1

1559 Cable extractor tool KABELEX®

registered design, for flat plug-in sockets, Maxi Power Timer contacts, DaimlerChrysler, VW/Audi.



Code	for contact sizes □ mm	△△ g	☐
74620009	9.5	39	1

1562 Cable extractor tool KABELEX®

registered design, for flat plug-in sockets, Pit-Pod contacts, all vehicle makes.



Code	for contact sizes □ mm	△△ g	☐
74620012	various	28	1

1563/1564 Cable extractor tools KABELEX®

registered design, for flat plug-in sockets, Ducon contacts in terminals with single release channel, Opel.



Code	No	for contact sizes □ mm	△△ g	☐
74620013	1563	0.8	15	1
74620014	1564	1.5	19	1

1565-1568 Cable extractor tools KABELEX®

registered design, for flat plug-in sockets, Ducon-contacts in terminals with two release channels, Opel.



Code	No	for contact sizes □ mm	△△ g	☐
74620015	1565	1.5	18	1
74620016	1566	2.8	19	1
74620017	1567	4.8; 6.3	22	1
74620018	1568	9.5	45	1

1572 Cable extractor tool KABELEX®

registered design, for flat plug-in sockets with asymmetrically positioned latches in terminals with two release channels, Ford.



Code	for contact sizes □ mm	△△ g	☐
74620022	2.8	18	1

1573 Cable extractor tool KABELEX®

registered design, for secondary locking device, Ford, Mazda.



Code	for contact sizes □ mm	△△ g	☐
74620023		14	1

1574 Cable extractor tool KABELEX®

registered design, for flat plug-in sockets, Micro-Timer I contacts and ABS plug-in housing, Fiat, Ford, Mazda, Opel, PSA, Renault, Saab, VW/Audi.



Code	for contact sizes □ mm	△△ g	☐
74620024	1.6	15	1

1575 Cable extractor tool KABELEX®

registered design, for round soldered pin contacts, Ford, for flat plug-in sockets (retention by locking device on terminal), Fiat, Mazda, Toyota.



Code	for contact sizes ∅ mm	for contact sizes □ mm	△△ g	☐
74620025	1.5	2.8; 5.8	15	1

1576 Cable extractor tool KABELEX®

registered design, for flat plug-in sockets with single latch (flat plug without box), e.g. MAN.



Code	for contact sizes □ mm	△△ g	☐
74620026	2.8	18	1

1577 Cable extractor tool KABELEX®

registered design, for flat plug-in sockets, VKR Box contacts, e.g. MAN.



Code		g	g	g
74620027		49	1	

1577-1 Cable extractor tool KABELEX®

registered design, for flat plug-in sockets, MKR/MKS contacts, e.g. MAN/Volvo.



Code	for contact sizes □ mm	g	g	g
74615027	1.5	23	1	

1578K-1 Cable extractor tool KABELEX®

registered design, for flat plug-in sockets, SLK contacts (primary), e.g. BMW, DaimlerChrysler.



Code	for contact sizes □ mm	g	g	g
74610028	2.8	35	1	

1578K-2 Cable extractor tool KABELEX®

registered design, for flat plug-in sockets, SLK contacts 97 (primary, secondary), e.g. BMW, DaimlerChrysler.



Code	for contact sizes □ mm	g	g	g
74612028	2.8	35	1	

1584/1585 Cable extractor tools KABELEX®

registered design, for round soldered contacts, DaimlerChrysler.



Code	No	for contact sizes ∅ mm	g	g	g
74620034	1584	4.0	13	1	
74620035	1585	2.5	11	1	

1587 Cable extractor tool KABELEX®

registered design, for flat plug-in sockets, E-95 contacts, DaimlerChrysler.



Code	for contact sizes □ mm	g	g	g
74620037	1.65	23	1	

1588 Cable extractor tool KABELEX®

registered design, for GSK flat fuse contacts (1, 2 and 3 terminal version; 2, 4 and 6 latches), DaimlerChrysler.



Code		g	g	g
74610038		23	1	

1589K Cable extractor tool KABELEX®

registered design, for flat plug-in sockets, LSK contacts, e.g. BMW, DaimlerChrysler.



Code	for contact sizes □ mm	g	g	g
74610039	8	45	1	

1591 Cable extractor tools KABELEX®

registered design, for flat plug-in sockets in terminals with two release channels, Junior Power Timer contacts, Standard Power Timer contacts, e.g. BMW, DaimlerChrysler, Fiat, Ford, MAN, Opel, PSA, Renault, Saab, VW/Audi.



Code	for contact sizes □ mm	g	g	g
74620041	2.8; 5.8	25	1	



Special tools for ignition and electrics

7600 Universal torque limiter

15-35 N m, 3/8" □-drive, with in-built torque trip value if requested (price available on request).



Code	L mm	g	g	g
50160035	53	236	1	

ES7600 Adjustment pin

for No 7600.

Code	L mm	g	g	g
59131001	65	15	10	

7620 Torque limiter

3/8" O-drive, incl. universal joint, cut-out set at 20 N m.



Code	L mm	△△ g	☐
50170020	103	313	1

3466 Spark plug socket

3/8" O-drive, with magnet, outside dia 25.5 mm, for deep seated plugs.



Code	∅ mm/"	L mm	△△ g	☐
02140036	16 - 5/8	85	198	5

4600 Spark plug socket

3/8" O-drive, with rubber insert.



Code	∅ mm/"	L mm	△△ g	☐
02120036	16 - 5/8	60	88	10

4660 Spark plug socket

3/8" O-drive, with magnet, outside hexagon 19 mm.



Code	∅ mm/"	L mm	△△ g	☐
02130036	16 - 5/8	64	113	5

4606 Spark plug socket

3/8" O-drive, with rubber insert.



Code	∅ mm/"	L mm	△△ g	☐
02130018	18 - 11/16	65	132	10

1042 Tubular spark plug socket

3/8" O-drive.



Code	∅ mm/"	L mm	△△ g	☐
02230016	16 - 5/8	270	203	5

1043 Tubular spark plug socket

3/8" O-drive, extra long, with rubber insert, for deeply recessed, difficult-to-reach spark-plugs with M12 x 1.25 mm threads.



Code	No	∅ mm	L mm	△△ g	☐
02230014	1043	14	90	52	1
02231014	1043/1	14	250	144	1

1052* Spark plug spanner

3/8" O-drive, with rubber insert, length adjustable to 123, 152 and 182 mm.



Code	∅ mm/"	L mm	△△ g	☐
02230208	20.8 - 13/16	125	260	5

* to be discontinued

46 Spark plug socket

3/8" O-drive, with rubber insert.



Code	∅ mm/"	L mm	△△ g	☐
02020208	20.8 - 13/16	65	151	10

46M* Spark plug socket

3/8" O-drive, with magnet.



Code	∅ mm/"	L mm	△△ g	☐
02250208	20.8 - 13/16	65	177	10

* to be discontinued

51 Spark plug sockets

1/2" O-drive.



Code	∅ mm/"	L mm	△△ g	☐
03020216	16 - 5/8 ¹⁾	83	137	10
03020208	20.8 - 13/16 ¹⁾	83	194	10
03250208	M20.8 - 13/16 ²⁾ *	83	230	10

¹⁾ with rubber insert

²⁾ with magnet

* to be discontinued

51S Spark plug socket

1/2" O-drive,



Code	O-drive mm/"	L mm	g	Box
03 24 02 08	20.8-13/16 ¹⁾	83	196	10

¹⁾ with rubber insert

1040* Spark plug socket

1/2" O-drive, with universal joint and rubber insert.



Code	O-drive mm/"	L mm	g	Box
03 14 02 08	20.8-13/16	100	170	5

* to be discontinued

Tools for spark plugs

4328* T-handle universal joint

AS-drive
with rubber insert.



Code	O-drive mm/"	L mm	g	Box
43 28 02 08	20.8-13/16	507.5	765	3

* to be discontinued

5100 Rubber insert

for size 20.8 mm
(No 46; 466; 51; 51S; 1040; 4328).



Code	g	Box
09 01 00 01	5	5

10626 Spark plug connector pliers

forged, with 45° offset, curved jaws, for extracting and replacing sparkplug connectors.



Code	L mm	g	Box
76 53 00 01	195	223	1

12375 Spark plug brush

wood, brass wire dia 0.15 mm.



Code	size	L mm	Rows	g	Box
74 16 00 01	1	150	3 x 5	18	10

Tools for heater plugs

25GK Ratchet ring spanner

angled, extra long, for hard-to-reach heater plugs (e.g. BMW, DaimlerChrysler, Peugeot, Renault, Seat, VW/Audi), size 8 mm for contact rail bolts, size 12 mm for diesel heater plugs, chrome plated.



Code	O-drive mm	L mm	g	Box
41 18 08 12	8 x 12	255	156	1

3047 Spark plug sockets

extra long, for hard-to-reach heater plugs, 3/8" O-drive, size 10 mm e.g. for Renault, VW/Audi TDi; size 12 mm e.g. for BMW, DaimlerChrysler (201, 202 four-valve technology), Ford, Opel, Renault.



Code	O-drive mm	L mm	g	Box
02 18 00 10	10	140	138	1
02 18 00 12	12	140	138	1

10627 Heater plug socket pliers

forged, curved jaws with milled grip, for accessing tight-fitting, awkward-to-reach heater plug connectors (e.g. BMW, DaimlerChrysler, Peugeot, Renault, Seat, VW/Audi).



Code	L mm	g	Box
76 53 00 04	220	262	1



Testing tools for car electrics

12905 Car circuit tester

for car electrics 6-12 volt and 24 volt, with pointed probe, cover cap, connecting lead with alligator clip.



Code	L mm	⚖️ g	📦
77380001	120	73	10

7756 Automotive voltage tester (complete set)

Testing unit for electric and electronic car components, 3 - 48 volt, 2 LEDs to indicate voltage and plus or minus pole, complete in Pc-bag.

Content:

1 basic unit with 1.5 m cable, testing tip, integrated mechanical sliding needle, 1 crocodile terminal, 1 jaw clamp



Code	⚖️ g	📦
77560001	85	1

7755 Crocodile terminal



Code	⚖️ g	📦
77550001	12	1

Special tools for carburetors

10503 Screwdriver

for adjusting slotted screws, matt chrome, black tip.



Code	L mm	Blade mm	⚖️ g	📦
73210001	345	0.8 x 5 x 260	64	10

10506 Screwdriver

for setting correct CO-valve on mixture screen, idling mixture on Pierburg carburetors: BMW, Ford, Opel, Peugeot, Renault, Mercedes-Benz cars. Choke adjustment Audi 80, VW Passat 1.3-1.5; 1.6 l, matt chrome, black tip.



Code	L mm	Blade mm	⚖️ g	📦
73010001	350	0.8 x 4 x 300	53	10

10507KK Screwdriver

for hexagon socket head screws, size 3 mm, for mixture regulation on distributor of K-Jetronic: VW-Audi, Mercedes-Benz, Porsche 924, Ford and BMW, matt chrome, black tip.



Code	L mm	⚖️ g	📦
73100002	385	40	10

10518 Screwdriver

for adjustment (slotted screws), matt chrome, black tip.



Code	L mm	Blade mm	⚖️ g	📦
73210002	515	1 x 5.5 x 410	140	10

11085 Jet reamers

16 pieces in case, with holder



Code	measuring range mm	⚖️ g	📦
74310001	0.33 - 2.0	27	10

12504 Bit holder with inside hexagon

for all screwdriver bits, flexible shaft, for adjustment.



Code	L mm	inside " "	Blade mm	⚖️ g	📦
18100016	260	1/4	150	109	10



Special tools for valves and pistons

11063 Valve seating-ring pliers

for pulling valve stem seals and removal of valve spring base on VW-Audi engines with overhead camshaft i.e. Golf, Passat, Audi 80, Audi 100, BMW and Mercedes-Benz 190 D, bright nickel-plated.



Code	L mm	⚖️ g	📦
74 29 0001	250	340	1

11063/1 Valve seating-ring pliers

for extracting poorly accessible valve shaft seals, e.g. in four-valve engines. Joint and jaws made of gun-finished hardened sheet steel. Handles made of nickel-plated shaped sheet steel.



Code	L mm	⚖️ g	📦
74 29 0002	270	330	1

11066 Valve spring lifter

bright nickel-plated.



Code	size	clamp. width mm	Jaws (2 pieces)	⚖️ g	📦
74 12 2001	1	75 - 225	11066R/1	1200	1
74 12 2003	2N	120 - 280	11066R/3 + R/4	3214	1

11066R Spare jaws

for No 11066, 2 each, hardened, nickel-plated.



Code	size	shape	for No	⚖️ g	📦
79 12 01 01	1	straight	11066/1	120	1
79 12 01 02	2	bent	11066/1	120	1
79 12 02 01	3	straight	11066/2	103	1
79 12 02 02	4	bent	11066/2	114	1

11068 Piston ring compressors

made of spring steel, stepless adjustment c/w hexagon key wrench.



Code	size	Clamp. width mm	Height mm	⚖️ g	📦
74 14 00 00	0	40 - 75	50	105	1
74 14 00 01	1	57 - 125	80	264	1
74 14 00 02	1A	57 - 125	100	288	1
74 14 00 03	2	90 - 175	80	309	1
74 14 00 04	2A	90 - 175	100	330	1
74 14 00 05	3	90 - 175	165	603	1

11069 Piston ring pliers

for mounting and removing piston rings, bright nickel-plated.



Code	size	for piston rings mm	L mm	⚖️ g	📦
74 15 20 01	1	50 - 100	200	245	1
74 15 20 02	2	80 - 120	240	279	1
74 15 20 03	3	110 - 160	240	394	1
74 15 20 04	4 ¹⁾	30 - 60	210	153	1
74 15 20 05	5 ¹⁾	60 - 160	220	194	1

¹⁾ with V-shaped contact faces for safe and positive manipulation of piston rings

11095-11097 Precision feeler gauges

DIN 1544F, nickel-plated case, tapered blades.



Code	No	Sizes	L mm	⚖️ g	📦
74 24 00 01	11095/13	0.05; 0.10; 0.15; 0.20; 0.25; 0.30; 0.40; 0.50; 0.60; 0.70; 0.80; 0.90; 1.00 mm	100	61	10
74 24 00 02	11095/20	0.05; 0.10; 0.15; 0.20; 0.25; 0.30; 0.35; 0.40; 0.45; 0.50; 0.55; 0.60; 0.65; 0.70; 0.75; 0.80; 0.85; 0.90; 0.95; 1.00 mm	100	95	10
74 24 00 03	11096/13	2; 3; 4; 5; 6; 8; 10; 12; 15; 20; 25; 30; 35/1000"	100	51	10
74 24 00 04	11097/22	4; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25/1000"	100	78	10

12108 Valve spring tool

incorporating 2 clamping and 2 compression facilities which are interchangeable, suitable for most car engines, some without removing cylinder head.



Code	g	g	g
74570001	780	1	

12705 Motor mechanics stethoscope

steel probe, plastic handle and sound tubes.



Code	g	g	g
74060001	137	1	

12731 Valve grinding tools

with suction cap.



Code	∅ mm	g	g
74050020	20	58	5
74050025	25	54	5
74050030	30	66	5
74050037	37	65	5

12956* Valve clearance disc pliers

for use with valve adjustment tools No 12960-12963.
Reinforced tips with milled profile for better grip on discs.
Pressed steel handles, bright nickel-plated.
Hardened jaw tips.



Code	L mm	g	g
74070002	250	231	1

* to be discontinued

12960-12963* Adjustment tools

for use with No 12956, for depressing bucket tappets, steel handle, plastic dip coated. Contact area hardened sheet steel.



Code	No	L mm	Type	g	g
74080001	12960	220	on all 4-cylinder engines with bucket tappets until model year 1982 VW/Audi Golf, Jetta, Caddy, Scirocco, Passat, Iltis, Santana, Audi 80, 100, Volvo 240D, 244GLD, 244GLD6, 245GLD6, 760D	206	1
74080003	12962	200	Fiat 128, 128 Rallye, 128 Coupé, X 1/9, Uno 50 PS, Ritmo	139	1
74080004	12963	210	Ford 1.6/1.8 l diesel Fiesta, Escort, Orion, 1.8 l Sierra Turbo	234	1

* to be discontinued

Car body repair tools and pullers

5010N Body tool set

38 pieces



Code	kg	kg
97842311	1 of each	13.5
No 104	120 x 4; 120 x 6 mm	
No 105	120 x 10 mm	
No 112		
No 4722	size 1; size 3; size 4	
No 4724	size 2	
No 4728	size 1; size 5	
No 4730	size 1; size 2	
No 4732	size 3	
No 65 01 4 200		
No 65 51 6 240		
No 65 64 2 250		
No 10670	205 mm	
No 10790		
No 10855		
No 10866		
No 10900	400 mm	
No 10916		
No 10917		
No 10922		

	No 10923	530 mm
	No 10925	5 pieces
	No 10958	
	No 10960	300; 500 g
	No 11005	410 mm
	No 11006	400 mm
	No 12321	
	No 12374	
	No 12725	
	No 12726	
	No 12752L	
	No 12752R	
	No 12770	

10980 Panel beating set

7 pieces, in steel case.
Content
Hammers: No 10785; 10790;
Dollies: No 10838; 10841; 10861;
10865;
Pliers: No 10935



Code	kg	
98812001	7.35	1

10998 Panel beating set

17 pieces, in steel case No 83/09.
Content
Hammers: No 10775; 10785; 10790;
10811; 10950; 10955/35;
Dollies: No 10830; 10835; 10840;
10850; 10861;
Pliers: No 10910; 10930;
Special Spoons: No 10890; 10895;
10900;
Body File Holder: No 10905;
Padlock: No 12932



Code	kg	
98812101	19.9	1

10775 Dinging hammer



Code	Ø mm	L ₁ mm	L ₂ mm	g	
70130002	30/40	300	155	516	2

10776 Special planishing hammer

large extra thin faces,
square face chequered.



Code	Ø mm	mm	L ₁ mm	L ₂ mm	g	
70130010	46	40	320	115	521	2

10780 Planishing hammer

short.



Code	Ø mm	mm	L ₁ mm	L ₂ mm	g	
70130003	32	25	300	100	346	2

10785 Planishing hammer

short, round face chequered.



Code	Ø mm	mm	L ₁ mm	L ₂ mm	g	
70130004	40	35	300	96	400	2

10790 Pecking hammer

with round face and ball pein.



Code	Ø mm	L ₁ mm	L ₂ mm	g	
70130005	18/41	300	158	480	2

10795 Pecking hammer

with round face and acorn
shaped pein.



Code	Ø mm	L ₁ mm	L ₂ mm	g	
70130006	20/41	300	160	460	2

10800 Pecking hammer

short, round flat face and pointed pein.



Code	∅ mm	L ₁ mm	L ₂ mm	△△ g	
70130007	35	300	135	360	2

10805 Pecking hammer

round flat face, oblong, thin pein, approx. 1 mm thick.



Code	∅ mm	L ₁ mm	L ₂ mm	△△ g	
70130008	40	300	160	450	2

10806 Pecking hammer

extra large thin face and pein.



Code	∅ mm	L ₁ mm	L ₂ mm	△△ g	
70130011	40	300	135	382	2

10811 Planishing and grooving hammer



Code	∅ mm	□ mm	L ₁ mm	L ₂ mm	△△ g	
70130012	30	36 x 10	320	160	531	2

10812 Planishing and grooving hammer



Code	∅ mm	□ mm	L ₁ mm	L ₂ mm	△△ g	
70130013	30	25 x 5	300	115	350	2

10830 Dolly



Code	L mm	b mm	h mm	△△ g	
70210001	80/100	70/45	65	1450	1

10831 Special wedge dolly



Code	L mm	b mm	h mm	△△ g	
70210013	105	53	45	961	1

10832 Planishing anvil



Code	faces/mm	△△ g	
70210015	85 x 55 / 45 x 40	1160	1

10835 Wedge dolly



Code	L mm	b mm	h mm	△△ g	
70210002	130	55	32	958	1

10838 Anvil dolly

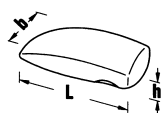


Code	L mm	b mm	h mm	△△ g	
70210003	75	60	50	1068	1

10840 Special anvil dolly



Code	L mm	b mm	h mm	△△ g	
70210004	70	57	70	1250	1

10841 Thin dolly


Code	L mm	b mm	h mm	△ g	
70210005	107	66	28	984	1

10842 Diabolo dolly


Code	∅ mm	h mm	△ g	
70210006	57	60	658	1

10843 Heavy duty dolly


Code	L mm	b mm	h mm	△ g	
70210007	115	65	45	2012	1

10845 Toe dolly


Code	L mm	b mm	h mm	△ g	
70210008	120	55	22	770	1

10850 Anvil block

axe shape.



Code	L mm	b mm	h mm	△ g	
70210009	65/50	25/8	140	860	1

10855 Universal anvil dolly


Code	L mm	b mm	h mm	△ g	
70210010	70/60	50/45	58	1200	1

10861 Toe dolly

chequered surface.



Code	L mm	b mm	h mm	△ g	
70210014	120	55	30	1033	1

10865 Heel dolly


Code	L mm	b mm	h mm	△ g	
70210012	80	60	35	1070	1

10866 Dolly

with three flat and three shaped faces.



Code	L mm	b mm	h mm	△ g	
70210016	115	48	48	1550	1

10880 Bumping spoon


Code	L ₁ mm	L ₂ mm	△ g	
70220001	460	200	1900	1

L₁ = length overall
L₂ = working length

10885 Bumping spoon


Code	L mm	△ g	
70220002	500	2210	1

10890 Body spoon


Code	L ₁ mm	L ₂ mm	△ g	
70220003	270	130	520	1

10895 Body spoon



Code	L ₁ mm	L ₂ mm	⚖ g	📦
70220004	390	200	970	1

L₁ = length overall
L₂ = working length

10900 Flange tool

with leather cap.



Code	L mm	⚖ g	📦
70220005	400	1100	1

10925 Beechwood sticks

for soldering, 5 pieces.



Code	⚖ g	📦
77530001	364	1

11005 Pry bar

head and point polished.



Code	L mm	⚖ g	📦
72090000	400	500	6

11006 Lever bar

special steel, bright nickel-plated.



Code	L mm	⚖ g	📦
72090002	400	500	6

11007 Lever bar

special steel, bright nickel-plated.



Code	L mm	⚖ g	📦
72090003	400	643	6

12724 Body file

Special Chrome Alloy Steel,
crosscut, coarse, 14 t.p.i.



Code	L mm	⚖ g	📦
72040001	350	690	2

12725 Body file

Special Chrome Alloy Steel,
crosscut, smooth, 18 t.p.i.



Code	L mm	⚖ g	📦
72040002	350	691	2

12726 Body file

Special Chrome Alloy Steel,
crosscut, coarse, 14 t.p.i.



Code	L mm	⚖ g	📦
72040003	350	678	2

12747* Box file

also for body sheet work.



Code	L mm	b mm	h mm	⚖ g	📦
72290001	160	25	35	800	1

* to be discontinued

10905 Body file holder

with coarse blade.



Code	L mm	b mm	h mm	⚖ g	📦
72160000	365	35	110	760	2

L = Length, b = Width, h = Height

10923 Body file holder

wooden, for flat blades.



Code	L mm	⚖ g	📦
72200002	530	300	1

Spare blades for No 10905 and No 10923



Code	No	teeth per inch	L mm	⚖ g	📦
79060001	10906	fine, radial cut	15	350	321 10
79060002	10907	medium, radial cut	12	350	286 10
79060003	10908	coarse, radial cut	9	350	279 10
79060012	10915	medium, angled cut	12	350	282 10
79060013	10916	coarse, angled cut	9	350	252 10

10922 Body file holder

wooden, for half round radius file blades.



Code	L mm	⚖️ g	📦
72200001	530	260	1

File blades for No 10922



Code	No	teeth per inch	L mm	⚖️ g	📦	
79060014	10917	coarse, without swarf breaker, half round, angled cut	9	350	208	1
79060004	10921	coarse, without swarf breaker, half round, radial cut	9	350	216	5

12752 Tin snips

lever action, spring-assisted for self-opening action. Heavy duty cutting: sheet steel up to 1.8 mm or stainless steel sheet up to 1.2 mm.



Code	shape	L mm	L "	⚖️ g	📦
75230001	L¹⁾	260	10 1/2	532	1
75230002	R²⁾	260	10 1/2	532	1

¹⁾ left hand cutting

²⁾ right hand cutting

12753 Tin snips

lever action, spring-assisted for self-opening action. Heavy duty cutting: sheet steel sheet up to 1.8 mm or stainless steel sheet up to 1.2 mm.



Code	shape	L mm	L "	⚖️ g	📦
75240001	L¹⁾	260	10 1/2	473	1
75240002	R²⁾	260	10 1/2	473	1

¹⁾ left hand cutting

²⁾ right hand cutting

12951 Nibbler shear

for sheet metal up to 1.2 mm thickness, aluminium, copper, plastic, PCB' s up to 2 mm thickness.



Universal tool for circular or rectangular cut-outs. Clean, burr-free finish. Cutting blade, matrix, spring and screws are easy to exchange. Pressure on handles cuts off shavings. Multiple application without deformation of surfaces. Bright nickel-plated, plastic coated handles, spring loaded.

Code	L mm	⚖️ g	📦
77430002	265	467	1

Spare parts for No 12951

Code	No		⚖️ g	📦
79300001	12951/1	knife	17	1
79300002	12951/2	springs	5	1
79300003	12951/3	screws	37	1
79300004	12951/4	jaw	41	1

10642 Set-off pliers

for offsetting sheet metal edges up to 1 mm thickness, ensuring shoulder free surface. Handles fitted with H.D. plastic sleeves.



Code	size	jaw width mm	L mm	⚖️ g	📦
76490001	1	15	300	831	1
76490002	2	30	300	847	1

10643 Punch pliers

for use on sheet metal up to 1 mm thickness (hole spot welding - MAG welding technique). Use in conjunction with setoff pliers No 10642.



Handles fitted with H.D. plastic sleeves.

Code	size	∅ mm	L mm	⚖️ g	📦
76590001	1*	5	300	802	1
76590002	2	5.5	300	806	1
76590003	3*	7	300	817	1

* to be discontinued

12727**Spot weld milling cutter**

HSSE steel, for spot-weld removal on car body or sheet metal construction. Replaceable milling cutter size 10 mm. Cutting depth adjustment by set screw, avoids distortion damage to sheet metal.



Code	L mm	△△ g	☐
72260001	72	19	5

12728**Replacement milling cutter**

Code	L mm	△△ g	☐
79260001	13	4	10

Spot weld drill

for clean, burr-free removal of spot-weld. Self-cutting centre point avoids running off spot weld. Can be reground.



Code	No	∅ mm	△△ g	☐
72270007	12729	7	18	5
72270008	12730	8	24	5

Tools for vehicle doors**10652****Door spring pliers**

for use on door and window springs on VW, OPEL, FORD, BMW etc.



Code	L mm	△△ g	☐
76472000	205	85	6

12719***Hinge pin removal tool**

Code	L mm	△△ g	☐
74450001	310 x 220	1000	1

* to be discontinued

Drive pins

for hinge pin removal tool No 12719



Code	No	L mm	∅ mm	△△ g	☐
74460001	12720*	110	3.85	13	10
74460002	12721*	110	5	19	10

* to be discontinued

12769**Universal alignment tool for automobile doors**

Scope of application:

Almost all car and van doors, boot lids and hatchback doors.

The application for this tool is door locks and door guide pins.

Also suitable on door lock shackles, i.e. as on Opel and Mercedes-Benz.

The universal alignment tool

is supplied with 3 different,

interchangeable special bolts,

housed within the tubular handle.

The handle bend is reinforced

by a twin tube.



Code	L mm	△△ g	☐
74450010	720	1815	1

12770**Lever bar**

powder coated for improved slide effect, for removal of doors trims in cars.



Code	L mm	△△ g	☐
74590001	250	148	5

12770/2**Lever bar**

for levering off fragile caps, decorative trim (strips and rings), switches, rubber or fabric trim without damaging them. Finely honed, rounded edges ensure the vehicle paintwork and surrounding materials are not damaged or scratched.



Code	L mm	△△ g	☐
74590002	175	58	1

12770/3 Plastic lever bar

for removing trim and rubbing strips of all kinds on bodywork and around windcreens, rear and side windows. The broad area of contact prevents damage such as scratching of painted surfaces, deformation of strips and damage of glass.



Code	L mm	⚖ g	📦
74590003	300	209	1

Tools for fitting/removing vehicle glass

10350N Windscreen replacement set VERITRAC

1 guide handle
1 draw handle
1 coil cutting wire (50 m)
2 double suction lifters



Code	⚖ g	📦
98742711	1760	1

10351N Windscreen removal set VERITRAC

as 10350N, but without double suction lifters.



Code	⚖ g	📦
96742711	458	1

10352 Two double suction lifters

Suction cap dia. 120 mm, mechanical action with safety lock. Special ABS - plastic, oil and acid resistant. With belt slots in the handles. Carrying capacity 60 kg.



Code	⚖ g	📦
74280001	1255	1

10352/1 Double suction lifter

as above.



Code	⚖ g	📦
74280005	625	1

10351/1 Draw handle

for drawing cutting wire through adhesive seal.



Code	⚖ g	📦
74270001	102	1

10351/2 Guide handle

for fixing and clamping cutting wire inside vehicle.



Code	⚖ g	📦
74270002	196	1

10351/3 Guide handle

for fixing and clamping cutting wire inside vehicle. Extra long extension makes it especially suited to recessed glass.



Code	⚖ g	📦
74270006	190	1

SD10351N Spare cutting wire

special alloy steel 0.6 x 0.6 mm. Easy wire removal without the rest unrolling.



Code	L m	⚖ g	📦
79270011	50	161	1

10354 Tension strap with ratchet

for clamping and fixing freshly fitted vehicle glass, synthetic webbing.



Code	Width mm	⚖ g	📦
74270003	25	375	1

10355 Wire insert probe

for threading cutting wire through hardened adhesive, 2.5 mm steel tubing with brass handle.



Code	⚖ g	📦
74270004	91	1

1474/2 Wire insert awl

for feeding or pulling cutting wire through hardened adhesive.



Code	g	g	g
78030002	70	1	

12718 Flat scraper

for removing residues of sealant and adhesive.



Code	g	g	g
72030001	143	5	

10356 Scraper

for removing residues of adhesive and stickers from vehicle glass. Blade 40 mm wide, 0.3 mm thick, interchangeable with cover.



Code	Length mm	Width mm	g	g
74270005	165	40	90	1

10356R Spare blades

10 pieces Dispenser.



Code	g	g	g
79270015	45	1	

12749 Scraper with reversible tungsten steel blade

for removing residues of adhesive and stickers from vehicle glass. Can also be used for scraping metal and seals. Includes angled inner hex. screwdriver.



Code	L mm	g	g
72310001	485	475	1

12749R Spare blade

to scraper No 12749.

Code	g	g	g
79310001	19	1	



Special tools for brakes and wheels

721/15/5 Torque wrench set

for wheel assembly on automobiles.

Content:

- 1 Torque wrench No 721/15
- 4 sockets 1/2" O with hexagon
- No 51S sizes 17; 19; 20.8; 22 mm
- 1 Balance weight pliers No 10599/2



Code	g
96502073	2720

ES 721/15/4/2



530 x 350 x 40 mm, 7 pieces

Code	g
96838172	5060

No 51S	1/2" O sizes 17; 19; 20.8 mm-13/16"; 22 mm
No 721/15	30-150 N m
No 35c cars	17; 19; 22; ■ 1/2"
No 10599/2	245 mm
83 81 20 87	Empty tray
	299

Wheel braces

DIN 3119/ISO 6788, forged centre section, pressed-in extension arms with extra deep forged socket heads, Chrome Alloy Steel, chrome plated.



Code	No	O mm"	L mm	g	g
43030001	30c cars	17; 19; 13/16"; 22	400	2163	1
43030006	35c cars ¹⁾	17; 19; 22; ■ 1/2"	400	2058	1
43030004	33c Lkw	24; 27; 30; 32	700	5120	1
43030005	34c Lkw ¹⁾	24; 27; 32; ■ 3/4"	700	5053	1

¹⁾ with 1/2" or 3/4" ■-square drive on one extension

Wheel braces

green hammer paint finish.



Code	No	Ø mm/"	L mm	△ g	☐
43030009	36 cars	17; 19; 13/16"; 22	380	1283	1
43030008	37 cars	17; 19; 22; 24	380	1271	1

Tyre levers

Handy, sturdy construction, purposefully shaped, Chrome Alloy Steel, chrome plated.



Code	No	L mm	△ g	☐
74010400	39 cars	400	383	5
74010600	39/1 Lkw	600	897	5
74010602	39/2 Lkw	600	1172	5
74010603	39/3 Lkw	600	642	5

51S Socket



extra deep, DIN 3124/ISO 2725-1, E DIN EN 3710, E DIN EN 3709 (test loads), HPQ high performance steel, chrome plated.

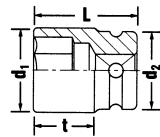


Code	Ø mm/"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	△ g	☐
03240208	20.8-13/16 1)	27.7	26	20	83	22	66.2	196	10

1) with rubber insert for spark plugs and for tightening and untightening wheel nuts on Japanese cars

50IMP* IMPACT sockets

for wheel nuts, bored out to accept bolt protrusion and dome nuts etc., 1/2" Ø-drive, DIN 3129/ISO 2725-2, for power drivers, Chrome Alloy Steel, gunmetal finish.

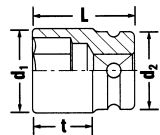


Code	Ø mm	d ₁ mm	d ₂ mm	L mm	t mm	△ g	☐
23110017	R17	30	30	38	21	142	10
23110019	R19	32.8	30	42	24.5	130	10

* to be discontinued

2309 IMPACT sockets

1/2" Ø-drive, for power drivers, extra deep, with reduced outside diameter, Chrome Alloy Steel, gunmetal finish.



Code	Ø mm	d ₁ mm	d ₂ mm	L mm	t mm	△ g	☐
23090017	17	25.7	30	85	68	242	5
23090019	19	28.2	30	85	67.5	257	5
23090208	20.8	30.7	30	85	66.5	272	5
23090022	22	32	30	85	66.5	311	5

for wheel nuts

2309K Wheel nut socket

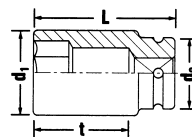
with plastic sleeve. Sleeve extension protects not only wheel bolts and nuts but also the wheel and holes.



Code	Ø mm	Ø "	L mm	φ mm	△ g	☐
23091017	17	1/2	87	32	242	1
23091019	19	1/2	87	32	250	1
23091208	20.8	1/2	87	32	265	1

2509 IMPACT sockets


3/4" Ø-drive, for power drivers, extra deep, with reduced diameter, Chrome Alloy Steel, gunmetal finish.

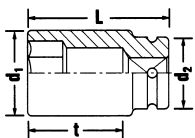





Code	Ø mm	d ₁ mm	d ₂ mm	L mm	t mm	△ g	☐
25090027	27	40.5	44	100	72.5	672	2
25090030	30	44.3	44	100	72.5	728	2
25090032	32	46.8	44	100	72	778	2
25090033	33	48	44	100	72	803	2

for Trilux wheels

2609 IMPACT sockets

1" -drive, for power drivers, extra deep, with reduced outside diameter, Chrome Alloy Steel, gunmetal finish.





Code	 mm	d ₁ mm	d ₂ mm	L mm	t mm	 g	
26090027	27	42.3	54	110	80	1001	2
26090030	30	46	54	110	79.5	1047	2
26090032	32	48.5	54	110	79	1015	2
26090033	33	49.8	54	110	78.5	1102	2

for wheel nuts

10599/2 Balance weight pliers

registered design, with cutter for cutting and trimming lead weights (with or without adhesive foil), Chrome Vanadium, chrome plated.





Code	L mm	 g	
76294003	245	319	1

10613 Brake spring pliers

for rivetted brake linings/shoes, Chrome Vanadium, bright nickel-plated.



Code	L mm	 g	
76413001	210	245	6
76413002	330	380	6

10613/1 Brake spring pliers

with flexible anvil, for rivetted and glued brake linings/shoes.





Code	L mm	 g	
76413021	330	461	2

10613/2 Brake spring pliers

for fitting and removing the retaining springs on drum-brake pads, e.g. DaimlerChrysler, Type 168, A Class, Renault Clio and Twingo from August 2002.



Code	L mm	 g	
76413022	235	221	1

12371 Brake caliper file

for removing dust, rust and dirt from brake caliper groove.





Code	L mm	 g	
74540001	230	104	5

12373 Steel wire brush

special slim design.





Code	L mm	Rows	 g	
77440001	230	2	70	10

12373/1 Steel wire brush

registered design, particularly suited to use on tight brake disc areas, thanks to the slim design. The soft and wavy brass bristles enable the components to be cleaned without damaging the material. Wavy brass bristles with \varnothing 0.2 mm.



Code	L mm	 g	
77440002	223	88	5



12900/2N Brake disc gauge

DIN 862, for measuring the thickness of car and motorcycle brake discs in situ, stainless steel, with locking screw and trailing vernier scale (1/10 mm), in leather pouch.



Code	measuring range mm	throat depth mm	△△ g	
77 37 1003	60	55	233	1

1068 Air filter claw

for loosening of filter cartridges on air brakes (trucks).



Code	∅ "	clamp. width mm	total height mm	length of claws mm	△△ g	
74 62 00 11	1/2	100 - 145	85	60	925	1



Special tools for lubrication service

1015 Oil filter claw

for loosening of oil filters on cars.



Code	∅ "	clamp. width mm	total height mm	length of claws mm	△△ g	
74 62 00 02	3/8	68 - 120	65	50	520	1

3045 Special socket

for oil filters, size 74 mm, 14-point, 10 mm dia. bore and outside hexagon 22 mm Ø.



Code	total height mm	△△ g	
74 37 00 01	52	131	1

3045K Special socket

for oil filters, size 74 mm, 14-point, 10 mm dia. bore and outside hexagon 22 mm Ø, extremely compact – essential where access is awkward.



Code	total height mm	△△ g	
74 37 00 03	44	104	1

3046 Special socket

for fitting and removing oil filter covers when changing oil filter cartridges



Code	∅ mm	∅ "	Type	△△ g	
02 11 10 32	32	3/8	e.g. Audi, MAN, Vauxhall Astra, Corsa, VW Passat	130	1
02 11 10 36	36	3/8	e.g. BMW, DaimlerChrysler engine 116 MB, 100 D Transporter, MAN, Vauxhall Vectra B DI 16V, VW Lupo 1.2 TDi, model year 99	171	1

3048 Special socket

for oil filters, size 92 mm, 15-point, outside hexagon size 27 mm.



Code	∅ "	△△ g	
74 37 00 02	3/8	135	1

10667 Oil service spanner

with 10 different sizes.



Code	L mm	△▽ g	☐
43 190001	220	438	5

12005 Strap wrench

for oil filters etc.,
up to 140 mm diameter.



Code	No	L mm	△▽ g	☐
76500001	12005	450	264	1
79150001	12005/1 ¹⁾	450	68	1

¹⁾ spare strap

12007 Oil filter wrenches

adjustable for diameters
80 - 110 mm.

Hardened anti-slip cams ensure safety during use.



Code	No	L mm	△▽ g	☐
7652 1001	12007/1 ¹⁾	150	226	1
7652 1002	12007/2 ²⁾	240	319	1

¹⁾ with 1/2" □

²⁾ with lever handle



Special tools for engine and gear transmission

12735 Clutch alignment tool

8-piece set, contains 1 clutch alignment mandrel, length 220 mm;
1 combined sliding taper/cylindrical bush, cylindrical bushes from
22.2 - 25.2 mm; 1 sliding cylindrical bush, tapered at both ends, cylinder
diameters 16 - 21 mm;
5 cylindrical bushes, two sizes each, cylinder diameter 12 - 20 mm,
in wooden storage box 255 x 81 x 38 mm.



Code	△▽ g	☐
74 480000	650	1



Special tools miscellaneous

157 Chain exhaust-pipe cutter

infinitely adjustable, with twist
handle, also suitable for special
steel pipes up to 1.8 mm wall
thickness,
chain length 270 mm.



Code	mm	△▽ g	☐
60 110001	25 - 75	705	1

K157 Chain

Code	△▽ g	☐
69 130001	183	1

1225 Special extension

curved, for use on magnetic switch
diesel pump.



Code	"	△▽ g	☐
12250001	3/8	128	5

1026/3 Universal bracing tool for pulleys

registered design, for virtually all belt cross-sections, supplied without belts.



Code	L mm	△ g	
76500013	400	538	1

10614 Hose clip pliers

for self tightening hose clips, nickel-plated.



Code	L mm	△ g	
76460000	220	293	1

10615/1 Hose clip pliers CLIC

for CLIC hose clips e.g. Volkswagen, Audi, Opel, Peugeot, BMW, Alfa Romeo. Work can be carried out at various angles due to stepless swivelling jaws.



Code	L mm	△ g	
76460013	200	189	1

10623/1 Hose clip pliers

registered design, with rotating jaws and multiple locking positions, single-handed use even with wide openings due to variable-geometry joint, especially for 12 and 15 mm wide, large-format hose clips, e.g. for VW/Audi, Opel, Ford, Renault, Fiat, Peugeot, Citroën, Porsche, DaimlerChrysler, Alfa Romeo.



Code	L mm	△ g	
76460012	290	414	1

10623/2 Hose clip pliers

registered design, with Bowden cable and multiple locking positions, especially for 12 and 15 mm spring-steel hose clips, suitable for use near cooling and heating systems up to a diameter of 42 mm, access to hard-to-reach places using Bowden cable remote action (length 610 mm), e.g. for VW/Audi, Opel, Ford, Renault, Fiat, Peugeot, Citroën, Porsche, DaimlerChrysler, Alfa Romeo.



Code	L mm	△ g	
76540001	300	565	1

10625 Ear clamp pincers

for application of 1 and 2-ear clamps on shaft sleeves, radiator and fuel lines e.g. for BMW, DaimlerChrysler, Ford, GM, Honda, Mazda, Nissan, Opel, VW/Audi, quality steel, black paint finish.



Code	L mm	△ g	
76540002	225	340	1

10625/2 Hose clip pliers

for correctly closing hose clips without ears, for shaft sleeves on VW/Audi, DaimlerChrysler and Toyota. Quality steel, nickel-plated, jaws gunmetal finished.



Code	L mm	△ g	
76540003	200	173	1



12625 Spring pretensioner

for fitting and removing McPherson strut systems.

Consists of:

- 1 basic tool (max. compression force 22.500 N)
- 2 spring holders \varnothing 80 - 145 mm
- 2 spring holders \varnothing 145 - 195 mm
- also for use with compressed air impact screw drivers (spindle drive size 27 mm)
- rapid spring holder fitting
- gentle clamping with coated spring holders
- the spring is locked as it is tensioned by the geometry of the specially designed spring holders
- overload protection by means of shearing pins
- spring holders are held in place by retaining screws



Code	Δ kg	
96710600	10.5	1

12625F Spring holder

1 piece



Code	size	\varnothing mm	Type	Δ kg	
71060002	2	80 - 120	-	0.95	1
71060003	3	80 - 145	-	1.25	1
71060004	4	145 - 195	-	1.75	1
71060005	5	-	BMW E39/46	3	1
71060006	6	-	DC 203	1.76	1
71060007	7	-	DC 211	2.3	1
71060008	8	80 - 145	for tapered and ball springs	1.7	1

12625S Protective jaw-covers

with magnets



Code	size	for	Δ g	
71060015	15	McPherson strut	300	1
71060016	16	Spring pretensioner	240	1

12718 Flat scraper

special steel, for removal of gasket seals on carburettor, valve cover, cylinder head etc.



Code	L mm	Δ g	
72030001	265	143	5

12763 Pull hook for rubber exhaust mountings

for pulling rubber loops on exhaust mountings. All cars except Ford.



Code	L mm	Δ g	
74200001	250	100	5

12771 Extractor pliers

for removing fixing plugs on door trims, outside trims, rubber bumper covers etc.

Joint and jaws made of hardened sheet steel, handles made of shaped sheet steel.



Code	L mm	Δ g	
76480001	230	182	1

12975 Fuel hose clamp

capacity up to \varnothing 20 mm, for stopping fuel flow temporarily.



Code	Δ g	
74340001	38	10

BMW

2500/3 Tool set for BMW

208 tools

Code		kg
97842114	1 of each	22.1
No 12	sizes 5.5; 6; 7; 8; 10 mm	
No 13	sizes 6; 7; 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 32 mm	
No 24	size 10 x 11 mm	
No 40/23/6N	1/4" No 40 sizes 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm No 41K sizes 0.6 x 3.5; 1 x 5.5; 1.2 x 8 mm No 44K: 3; 4; 5; 6; 8 mm No 44P: sizes 1; 2; 3; 4 No 400; 404; 405/2; 405/6; 407; 415	
No 405/2W	1/4" 55 mm	
No 405/6W	1/4" 150 mm	
No 409	3/8" 1/4"	
No 412	1/4"	
No 85TX	No 21TX sizes E6 x E8; E10 x E12; E14 x E18; E20 x E24 1/4" No 40TX sizes E4; E5; E6; E7; E8 3/8" No 45TX sizes E10; E12; E14 1/2" No 50TX sizes E11; E16; E18; E20; E24 1/2" No 54TX sizes T40; T45; T50; T55; T60 No 1410: size T6; No 1411: size T7; No 1412: size T8; No 1413: size T9; No 1440: size T10; No 1441: size T15; No 1442: size T20; No 1443: size T25; No 1444: size T27; No 1445: size T30; No 1446: size T40; No 1427: size T25; No 4750: size T6; T7; T8; T9; T10; T15; T20; T25; T27; T30; No 10766: sizes T6; T7; T8; T9; T10; T15; T20; T25; T27; T30; T40; No 415 SGB; No 442	
No 456/14/5i	3/8" No 456 sizes 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22 mm No 425; No 427/3; No 427/10; No 428; No 435	
No 427/1,5	3/8" 38 mm	
No 427/5	3/8" 125 mm	
No 431	1/4" 3/8"	
No 432	1/2" 3/8"	
No 442	1/4" 3/8"	
No 443	3/16" 3/8"	
No 50	1/2" sizes 30; 32 mm	
No 52	1/2" sizes 16; 17; 18; 19; 21; 22; 24; 27 mm	
No 54	1/2" sizes 5; 6; 8; 10 mm	
No 509/2W	1/2" 52 mm	
No 509/3	1/2" 75 mm	
No 509/10 (2x)	1/2" 255 mm	
No 510	1/2" 71 mm	
No 512	1/2"	

No 513	3/8" 1/2"
No 514	3/4" 1/2"
No 568	1/2" 3/4"
No 1234	size 4
No 1302	5 mm
No 1303	6 mm
No 1304	8 mm
No 4728	size 1 (0.4 x 2.5 x 50 mm)
No 4734	sizes 1; 2
No 4820	0.6 x 3.5 x 75 mm; 0.8 x 4.0 x 100 mm; 1.6 x 8.0 x 175 mm; 1.0 x 5.5 x 125 mm
No 4830	sizes 1; 2; 3
No 12506	size 6 mm
No 12507-2K	size 10 mm
No 65 08 5 160	
No 65 33 5 160	
No 65 35 5 200	
No 65 43 4 002	
No 65 44 4 021	
No 65 45 4 002	
No 65 46 4 021	
No 65 51 5 240	
No 65 63 2 250	
No 66 00 5 180	
No 102	150 mm
No 103	150 mm
No 105	120 x 10 mm
No 108	115 x 2 ; 150 x 3; 150 x 4; 150 x 5 mm
No 10506	0.8 x 4 x 300 mm
No 10518	1.0 x 5.5 x 410 mm
No 10670	205 mm
No 10672	20 x 305 mm
No 10957	∅ 50 mm
No 10960	500 g
No 11095/13	0.05–1 mm
No 12251	
No 12374	
No 12600	500 g
No 12905	
No 12922	
No 12931	3 m

2500 TCS Workshop set for BMW vehicles



281 tools, in TCS inlays (Tool Control System see page 42-50), 7x1/3, 1x2/3 and 4x3/3 inlays for 7 drawers.

Code	♁ kg
97830600	22.4



96 83 81 92



96 83 09 01



96 83 06 05



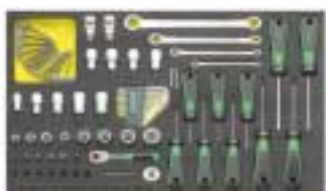
96 83 06 02



96 83 06 03



96 83 81 77



96 83 06 07



96 83 06 06



96 83 08 08



96 83 06 04
















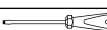







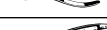



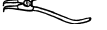






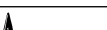

96 83 81 79









96 83 06 09

	No 10	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24 mm
	No 13	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm
	No 20	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22 mm

	No 24	size 10 x 11 mm
	No 40	1/4" O sizes 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
	No 40L	1/4" O sizes 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm
	No 41K	1/4" O, ⊖ sizes 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm
	No 44K	1/4" O, ● sizes 3; 4; 5; 6; 8 mm
	No 44P	1/4" O, ⊕ sizes 1; 2; 3; 4
	No 400	1/4" ■ 150 mm
	No 404	1/4" ■ 116 mm
	No 405/2	1/4" ■ O 54 mm
	No 405/4	1/4" ■ O 100 mm
	No 405/6	1/4" ■ O 150 mm
	No 407	1/4" ■ O 38 mm
	No 412	1/4" O O
	No 415QR	1/4" ■
	No 409	3/8" ■ 1/4" O
	No 456	3/8" O sizes 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
	No 466	3/8" O sizes 10; 11; 12; 13 mm
	No 47	3/8" O sizes 10; 11; 12; 13; 14; 15; 16 mm
	No 49	3/8" O sizes 5; 6; 7 mm
	No 49X	3/8" O sizes M6; M8; M10
	No 427/3	3/8" ■ O 76 mm
	No 427/5	3/8" ■ O 125 mm
	No 427/10	3/8" ■ O 240 mm
	No 435	3/8" ■
	No 452	3/8" ■
	No 428	3/8" ■ O 46 mm
	No 431	1/4" ■ 3/8" O
	No 432	1/2" ■ 3/8" O
	No 52	1/2" O sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm
	No 54	1/2" O sizes 8; 10; 12; 14; 17 mm
	No 509/2QR	1/2" ■ O 52 mm
	No 509/5	1/2" ■ O 130 mm
	No 509/10QR	1/2" ■ O 255 mm (2x)
	No 506	1/2" ■ 300 mm
	No 510	1/2" ■ O 71 mm
	No 512	1/2" ■
	No 513	3/8" ■ 1/2" O
	No 514	3/4" ■ 1/2" O
	No 2309K	1/2" O sizes 17; 19 mm
	No 12506	sizes 6; 7 mm
	No 21TX	sizes E6 x E8; E10 x E12; E14 x E18; E20 x E24
	No 40TX	1/4" O sizes E4; E5; E6; E7; E8
	No 44KTXB	1/4" O sizes T10; T15; T20; T25; T27; T30; T40
	No 45TX	3/8" O sizes E10; E12; E14
	No 47TX	3/8" O sizes E8; E10
	No 49TX	3/8" O size T40
	No 50TX	1/2" O sizes E11; E16; E18; E20; E24
	No 54TX	1/2" O sizes T45; T50; T55; T60


	No 54TXB	1/2" \bigcirc sizes T30; T40; T45; T50
	No 409M	3/8" \blacksquare 1/4" \bigcirc
	No 415B 2K	1/4" \bigcirc
	No 1410	size T6
	No 1411	size T7
	No 1412	size T8
	No 1413	size T9
	No 1440	size T10
	No 1441	size T15
	No 1442	size T20
	No 1443	size T25
	No 1444	size T27
	No 1445	size T30
	No 1446	size T40
	No 1427	size T25 (65 mm)
	No PZ1221	size 1
	No PZ1222	size 2
	No PZ1223	size 3
	No 3115/1	1/4" \blacksquare \bullet
	No 4856	sizes T6; T7; T8; T9; T10; T15; T20; T25; T27; T30
	No 10766	sizes T6; T7
	No 10766/9	sizes T8; T9; T10; T15; T20; T25; T27; T30; T40
		TORX® controller
	No 4724	size 2 (1 x 5.5 x 25 mm)
	No 4728	size 1 (0.4 x 2.5 x 50 mm)
	No 4734	size 2
	No 4744	size 1
	No 4820	0.6 x 3.5 x 75 mm; 0.8 x 4 x 100 mm; 1.2 x 6.5 x 150 mm; 1.6 x 10 x 200 mm; 2.0 x 12 x 250 mm
	No 4830	sizes 1; 2; 3
	No 4840	size 1
	No 10767/9	sizes 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm
	No 65 01 5 180	
	No 65 29 5 200	
	No 65 43 4 002	
	No 65 44 4 021	
	No 65 45 4 002	
	No 65464021	
	No 65 51 6 240	
	No 65 64 2 250	
	No 66 02 5 160	
	No 102	200 mm
	No 103	150 mm
	No 105	120 x 10 mm
	No 108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
	No 10957	\varnothing 40 mm
	No 10960	500 g
	No 12373	

	No 12600	500 g
	No 12718	
	No 12922	
	No 12931	3 m
	No 39	400 mm
	No 7756	

2501 TCS Workshop set for BMW motorbikes



209 tools, in TCS inlays (Tool Control System see page 42-50), 2x1/3, 2x2/3 and 5x3/3 inlays for 7 drawers.

Code	
97830601	kg 23.5



96 83 06 15



96 83 06 14



96 83 06 17



96 83 06 20



96 83 06 18



96 83 06 19




96 83 06 16









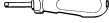


















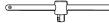



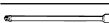













































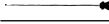
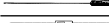

96 83 81 79






























96 83 06 21


	No 10	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 21 x 22 mm
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Continuation next page

	No 13	sizes 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 27; 29; 30; 32; 34 mm
	No 24	sizes 8 x 10; 9 x 11 mm
	No 40	1/4"  sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
	No 44K	1/4"  sizes 3; 4; 5; 6; 8 mm
	No 400	1/4"  150 mm
	No 404	1/4"  116 mm
	No 405/2	1/4"  54 mm
	No 405/4	1/4"  100 mm
	No 407	1/4"  38 mm
	No 412	1/4"  
	No 415QR	1/4" 
	No 456	3/8"  sizes 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
	No 49	3/8"  sizes 5; 6; 7; 8; 10 mm
	No 425	3/8"  165 mm
	No 427/3	3/8"  76 mm
	No 427/10	3/8"  240 mm
	No 428	3/8"  46 mm
	No 431	1/4"  3/8" 
	No 435	3/8" 
	No 52	1/2"  sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32; 34 mm
	No 54	1/2"  size 12 mm
	No 506	1/2"  300 mm
	No 509/5	1/2"  130 mm
	No 509/10	1/2"  255 mm
	No 510	1/2"  71 mm
	No 512	1/2" 
	No 513	3/8"  1/2" 
	No 21TX	size E6 x E8
	No 44KTXB	1/4"  sizes T8; T10; T15; T20; T25; T27; T30; T40
	No 45TX	3/8"  sizes E8; E10; E12; E14
	No 49TX	3/8"  sizes T25; T45
	No 54TX	1/2"  sizes T40; T50; T55; T60
	No 1054TX	1/2"  size T50
	No 2054TX	1/2"  sizes T40; T45
	No 10766/6	sizes T15; T20; T25; T27; T30; T40
	No 10769	sizes T8; T10; T15; T20; T25; T30; T40; T45; T50
	No 4721	size 0 (0.4 x 2.5 x 80 mm) size 1 (0.5 x 3.5 x 90 mm) size 2 (0.6 x 4 x 100 mm) size 4 (1 x 6.5 x 100 mm) size 5 (1.2 x 8 x 160 mm)
	No 4724	size 2 (1 x 5.5 x 25 mm)
	No 4731	sizes 1; 2
	No 4732	sizes 1; 2
	No 4734	size 2
	No 10506	0.8 x 4 x 300 mm
	No 10518	1.0 x 5.5 x 410 mm
	No 10765/9	1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm

	No 10768	sizes 2.5; 3; 4; 5; 6; 8; 10 mm
	No 12507	sizes 8; 10; 13 mm
	No 65 01 5 180	
	No 65 29 5 200	
	No 65 35 5 200	
	No 65 45 4 001	
	No 65 45 4 002	
	No 65 45 4 004	
	No 65 46 4 021	
	No 65 51 6 240	
	No 66 02 5 160	
	No 66 17 0 180	
	No 66 60 1 220	
	No 102	150 mm
	No 103	150 mm
	No 105	120 x 10 mm
	No 108	150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
	No 10356	
	No 10670	275 mm
	No 10672	20 x 305 mm
	No 10956	∅ 50 mm
	No 10960	300; 500 g
	No 12374	
	No 12600	500 g
	No 12900	
	No 12922	
	No 12965	


54TX-T20 Screwdriver Bit

for inside TORX® screws, size T20, 1/2" -drive, use on mounting screws for choke-switch on choke-flap L-Jetronic.





Code	Type	 g	
03 10 00 20	all	71	5

540-22 CROW-FOOT spanner

size 22 mm, 3/8" -drive, on through-flow jet of 2B4-carburettor, for use with adaptor No 513.



Code	Type	 g	
02 20 00 22	series 3, 518, 520	64	1

513 Adaptor

1/2" socket x 3/8" plug.



Code	Type	g	g	g
13 03 0002	series 3, 518, 520	55	5	

1062 Socket

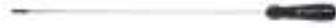
bi-hexagon, AS drive, size 27 mm, 1/2" O-drive, for diesel injectors.



Code	Type	g	g	g
03 83 0027	M 21: E30 = 324td, E28 = 524td, E34 = 524td M 51: E36 = 325td, E34 = 525tds	255	5	

10507KK Screwdriver

for hexagon socket head screws, size 3 mm, length 380 mm, for mixture regulation on distributor of K-Jetronic.



Code	Type	g	g	g
73 10 0002	all series 3 and 5 vehicles except USA versions	40	10	

10518 Screwdriver

length 520 mm, blade 1.0 x 5.5 x 410 mm, for adjustment work.



Code	Type	g	g	g
73 21 0002	all	140	10	

732/10-10 Ring insert tool

size 10 mm, valve adjustment, tightening torque 8 - 12 N m.



Code	Type	g	g	g
58 22 10 10	all except Diesel	44	1	

1067* Socket

for external TORX® screws, with screw clamping spring, size E 12, length 140 mm, 1/2" O-drive, for cylinder head bolts.



Code	Type	g	g	g
03 86 00 12	engine M42, 1.8 l, 4-cylinder (4 valves per cylinder), 318is from 1989, engine M50; 2.0/2.5 l, 6-cylinder (4 valves per cylinder), series 5 from 1990	175	1	

* to be discontinued

11063 Valve sealing ring pliers

for valve stem seals on all engines.



Code	Type	g	g	g
74 29 0001	all	340	1	

40TX-E8 Socket

for external TORX® screws, size E 8, 1/4" O-drive, for steering lock screws.



Code	Type	g	g	g
01 27 0008	all	13	10	

24-17x19 OPEN-RING spanner

bi-hexagon, size 17 x 19 mm, use on wingpump manifold (hydro-steering).



Code	Type	g	g	g
41 08 17 19	all	151	10	

55-36 Socket

hexagon, size 36 mm, 3/4" O-drive, use on vibration damper.



Code	Type	g	g	g
05 01 0036	series 5, 6 and 7, except 518-520i	386	2	

540-22 CROW-FOOT spanner

size 22 mm, 3/8" O-drive, use on track-rods



Code	Type	g	
02200022	series 3, 518, 520	64	1

513 Adaptor

1/2" socket x 3/8" plug.



Code	Type	g	
13030002	series 3, 518, 520	55	5

1417 BIT

for inside TORX® screws, size T25; 1/4" drive, for screws on sun roof E30.



Code	Type	g	
08130025	all	6	10

46-12 Socket

extra deep, bi-hexagon, size 12 mm, 3/8" O-drive, use on glow plugs of diesel engines.



Code	Type	g	
02020012	324d; 524d	57	10

4660-16 5/8 Spark plug socket

extra deep, hexagon size 16 mm - 5/8" with magnet, outside hexagon, size 19 mm, 3/8" O-drive.



Code	Type	g	
02130036	use on 12-cylinder engine	113	5

54-7 INHEX socket

for hexagon socket head screws, size 7 mm, 1/2" O-drive, for changing brake linings.



Code	Type	g	
03050007	518, 520i, 525i, 528i	75	5

733/10-12 OPEN-RING insert tool

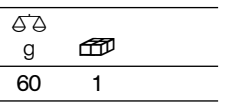
size 12 mm, for flare nuts on brake pressure regulator, tightening torque 15 - 18 N m.



Code	Type	g	
58231012	all	59	1

733/10-14 OPEN-RING insert tool

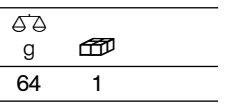
size 14 mm, for flare nuts on main brake cylinder, tightening torque 16 - 25 N m.



Code	Type	g	
58231014	all	60	1

733/10-17 OPEN-RING insert tool

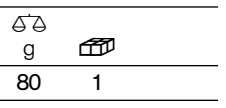
size 17 mm, for flare nuts on main brake cylinder, tightening torque 16 - 25 N m.



Code	Type	g	
58231017	all	64	1

733/10-19 OPEN-RING insert tool

size 19 mm, for flare nuts on main brake regulator, tightening torque 30-40 N m.



Code	Type	g	
58231019	all	80	1

50TX-E10 Socket

for external TORX® screws, size E10, 1/2" O-drive, use on mounting screws for GETRAG 260 gearbox, as well as on automatic gearboxes fitted to US and Japanese models.



Code	Type	g	
03270010	all	53	10

50TX-E12 Socket

size E12

Code	Type	g	g	g
03270012	all	55	10	

50TX-E14 Socket

size E14

Code	Type	g	g	g
03270014	all	56	10	

54TX-T27 Screwdriver BIT

for inside TORX® screws, size T27, 1/2" O-drive, use on switchgear of automatic gearbox 3HP 22, 4HP 22.



Code	Type	g	g	g
03100027	all	72	5	

1418 BIT

for inside TORX® screws, size T27, 1/4" E-drive, use on switchgear on automatic gearbox 3HP 22, 4HP 22.



Code	Type	g	g	g
08130027	all	6	10	

730/5 SERVICE-MANOSKOP torque wrench

6-50 N m, with tool carrier for insert tools, for tightening ZF switch-gear and adjustment brake belt BW 65 on automatic gearbox, to use with ratchet insert tool No 735/10.



Code	Type	g	g	g
50180005	all	805	1	

735/10 Ratchet insert tool

reversible, 1/2" O-drive.



Code	Type	g	g	g
58250010	all	147	1	

6547 Special circlip pliers

use on retaining ring on gearbox main shaft (all "GETRAG" and ZF gear-boxes S4-18/3).



Code	Type	g	g	g
65474170	all	154	1	

157 Chain pipe cutter

infinitely adjustable, with twist handle, for special steel pipes up to 1.8 mm wall thickness.



Code	Type	g	g	g
60110001	all	705	1	

1445 BIT

for inside TORX® tamper resistant screws, size T30, 1/4" O-drive, use on sensor screws wheelhouse (models with airbag system).



Code	Type	g	g	g
08160030	all	6	10	

12506-6 Hexagon nut spinner

flexible, size 6 mm, for screws on hose clips of radiator hose, max. tightening torque 8 N m.



Code	Type	g	g	g
43100006	all	106	10	

12975 Fuel hose clamp

capacity up to Ø 20 mm, for stopping fuel flow temporarily.



Code	Type	g	g	g
74340001	all	38	10	

Citroën

1023* Special ring spanner

single ended, angled, size 13 mm, use on mounting screws of injection pump.



Code	Type	g	g	g
41110013	all diesels	67	1	

* to be discontinued

1043 Tubular spark plug spanner

extra long, with rubber insert, for deeply recessed, difficult-to-reach spark-plugs with M12 x 1.25 mm threads.



Code	No	Type	mm	L mm	g	g	g
02230014	1043	C5 with engine 2.0 I HPI	14	90	52	1	
02231014	1043/1		14	250	144	1	

Daihatsu

1029* Brake adjusting lever

for drum brakes.



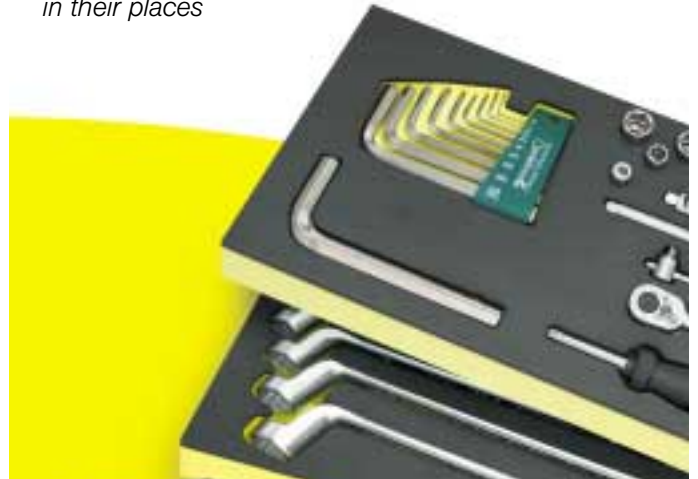
Code	Type	g	g	g
74030000	Cuore	190	5	

* to be discontinued



Tool Control System
The safety inlay system

- Designed to fit our Tool Trolleys and Tool Boxes
- With yellow signal cut-outs to show whether all tools are in their places



DaimlerChrysler cars

3026/1TCS Tool set for DaimlerChrysler cars



272 tools, in TCS inlay (Tool Control System see page 42-50), 5x1/3, 5x2/3 and 3x3/3 inlays for 8 drawers.

Code	kg
97830005	28.5



96 83 01 67



96 83 01 60



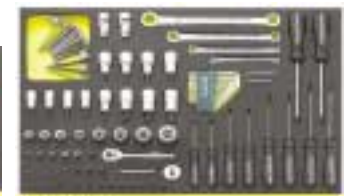
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96 83 01 63



96 83 01 79



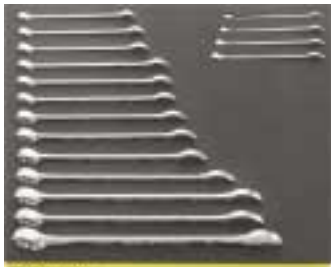
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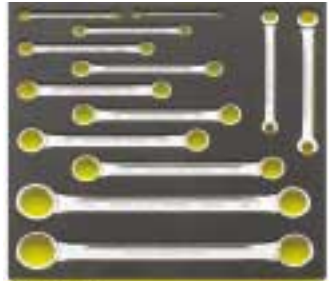
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96 83 01 70



96 83 01 64



96 83 01 65



96 83 01 66



96 83 01 62









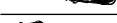











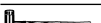







96 83 01 71

	No 10	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22; 24 x 27; 30 x 32; 34 x 36 mm
	No 13	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24 mm
	No 20	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22; 24 x 27; 30 x 32 mm
	No 21	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24; 27 x 32; 30 x 34 mm
	No 24	sizes 10 x 11; 12 x 14 mm
	No 40	1/4" \bigcirc sizes 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
	No 41K	1/4" \bigcirc , \ominus sizes 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm
	No 44K	1/4" \bigcirc , \bullet sizes 3; 4; 5; 6; 8 mm
	No 44P	1/4" \bigcirc , \oplus sizes 1; 2; 3; 4
	No 400	1/4" \blacksquare 150 mm
	No 404	1/4" \blacksquare 116 mm
	No 405/2	1/4" \blacksquare \bigcirc 54 mm
	No 405/6	1/4" \blacksquare \bigcirc 150 mm
	No 407	1/4" \blacksquare \bigcirc 38 mm

	No 412	1/4" \bigcirc \bigcirc
	No 415	1/4" \blacksquare
	No 456	3/8" \bigcirc sizes 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
	No 427/5	3/8" \blacksquare \bigcirc 125 mm
	No 427/10	3/8" \blacksquare \bigcirc 240 mm
	No 428	3/8" \blacksquare \bigcirc 46 mm
	No 435	3/8" \blacksquare
	No 50	1/2" \bigcirc sizes 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 30 mm
	No 52	1/2" \bigcirc sizes 12; 17; 18; 19; 20; 21; 22; 24; 25; 27; 30; 32 mm
	No 509/2	1/2" \blacksquare \bigcirc 52 mm
	No 509/5	1/2" \blacksquare \bigcirc 130 mm
	No 509/10	1/2" \blacksquare \bigcirc 255 mm
	No 510	1/2" \blacksquare \bigcirc 71 mm
	No 512	1/2" \blacksquare
	No 54	1/2" \bigcirc sizes 5; 6; 7; 8; 10; 12; 14; 17; 19 mm
	No 2309K	1/2" \bigcirc sizes 17; 19 mm
	No 12506	sizes 6; 7 mm
	No 21TX	sizes E6 x E8; E10 x E12; E14 x E18; E20 x E24
	No 40TX	1/4" \bigcirc sizes E4; E5; E6; E7; E8
	No 44KTXB	1/4" \bigcirc sizes T10; T15; T20; T25; T27; T30; T40
	No 45TX	3/8" \bigcirc sizes E10; E12; E14
	No 47TX	3/8" \bigcirc sizes E8; E10
	No 49TX	3/8" \bigcirc size T40
	No 49X	3/8" \bigcirc sizes M6; M8; M10
	No 50TX	1/2" \bigcirc sizes E11; E16; E18; E20; E24
	No 54TX	1/2" \bigcirc sizes T45; T50; T55; T60
	No 54TXB	1/2" \bigcirc sizes T30; T40; T45; T50
	No 409M	3/8" \blacksquare 1/4" \bigcirc
	No 415SGB	1/4" \bigcirc
	No 1410	size T6
	No 1411	size T7
	No 1412	size T8
	No 1413	size T9
	No 1440	size T10
	No 1441	size T15
	No 1442	size T20
	No 1443	size T25
	No 1444	size T27
	No 1445	size T30
	No 1446	size T40
	No 1427	size T25 (65 mm)
	No PZ1221	size 1 (2x)
	No PZ1222	size 2 (2x)
	No PZ1223	size 3
	No 3115/1	1/4" \blacksquare \bigcirc
	No 4750	sizes T6; T7; T8; T9; T10; T15; T20; T25; T27; T30
	No 10766	sizes T6; T7
	No 10766/9	sizes T8; T9; T10; T15; T20; T25; T27; T30; T40
		TORX® controller

Continuation next page

DaimlerChrysler cars

	No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm); size 5 (1.2 x 6.5 x 150 mm); size 6 (1.6 x 8 x 175 mm); size 7 (1.6 x 10 x 200 mm); size 8 (2 x 12 x 200 mm)
	No 4724	size 2 (1 x 5.5 x 25 mm)
	No 4728	size 1 (0.4 x 2.5 x 50 mm)
	No 4730	sizes 1; 2; 3
	No 4732	size 4
	No 4734	size 2
	No 4740	sizes 0; 1; 2
	No 4744	size 1
	No 4760 VDE	size 1 (0.4 x 2.5 x 75 mm)
	No 10767/9	sizes 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm
	No 65 01 5 180	
	No 65 29 5 200	
	No 65 51 6 240	
	No 66 02 5 160	
	No 102	200 mm
	No 103	150 mm
	No 105	120 x 10 mm
	No 108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
	No 10957	∅ 40 mm
	No 10960	500; 800 g
	No 12025	200 mm
	No 12036	250 mm
	No 12374	
	No 12600	3000 g
	No 12718	
	No 12931	3 m

DaimlerChrysler HGVs

3022/1TCS Tool set for DaimlerChrysler HGVs



299 tools, in TCS inlay (Tool Control System see page 42-50),
6x1/3, 3x2/3 and 6x3/3 inlays for 10 drawers.

Code	∅
97830006	kg
	45



96 83 01 67



96 83 01 60



96 83 01 61



96 83 01 72



96 83 01 76



96 83 01 79



96 83 01 74



96 83 01 76



96 83 01 73



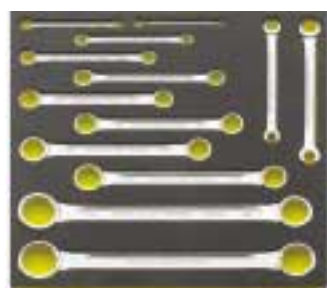
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96 83 01 77



96 83 01 78









96 83 01 65



96 83 01 66



96 83 01 62











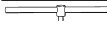







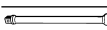











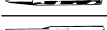

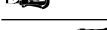
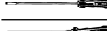

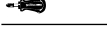








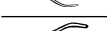

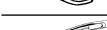





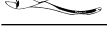
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	No 13	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32; 34 mm
	No 20	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22; 24 x 27; 30 x 32 mm
	No 21	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24; 27 x 32; 30 x 34 mm
	No 24	sizes 10 x 11; 12 x 14 mm
	No 40	1/4" ∅ sizes 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm


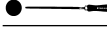
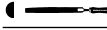



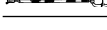
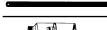
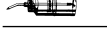








	No 41K	1/4" ○, ⊖ sizes 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm
	No 44K	1/4" ○, ● sizes 3; 4; 5; 6; 8 mm
	No 44P	1/4" ○, ⊕ sizes 1; 2; 3; 4
	No 400	1/4" ■ 150 mm
	No 404	1/4" ■ 116 mm
	No 405/2	1/4" ■ ○ 54 mm
	No 405/6	1/4" ■ ○ 150 mm
	No 407	1/4" ■ ○ 38 mm
	No 412	1/4" ○ ○
	No 415	1/4" ■
	No 456	3/8" ○ sizes 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
	No 427/5	3/8" ■ ○ 125 mm
	No 427/10	3/8" ■ ○ 240 mm
	No 428	3/8" ■ ○ 46 mm
	No 435	3/8" ■
	No 50	1/2" ○ sizes 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 30 mm
	No 52	1/2" ○ sizes 12; 17; 18; 19; 20; 21; 22; 24; 25; 27; 30; 32 mm
	No 509/2	1/2" ■ ○ 52 mm
	No 509/5	1/2" ■ ○ 130 mm
	No 509/10	1/2" ■ ○ 255 mm
	No 510	1/2" ■ ○ 71 mm
	No 512	1/2" ■
	No 54	1/2" ○ sizes 5; 6; 7; 8; 10; 12; 14; 17; 19 mm
	No 51IMP	1/2" ○ sizes 24; 27 mm
	No 2309	1/2" ○ size 22 mm
	No 2309K	1/2" ○ sizes 17; 19 mm
	No 21TX	sizes E6 x E8; E10 x E12; E14 x E18; E20 x E24
	No 40TX	1/4" ○ sizes E4; E5; E6; E7; E8
	No 44KTXB	1/4" ○ sizes T10; T15; T20; T25; T27; T30; T40
	No 45TX	3/8" ○ sizes E10; E12; E14
	No 49TX	3/8" ○ size T40
	No 49X	3/8" ○ sizes M6; M8; M10
	No 50TX	1/2" ○ sizes E11; E16; E18; E20; E24
	No 54TX	1/2" ○ sizes T45; T50; T55; T60
	No 54TXB	1/2" ○ sizes T30; T40; T45; T50
	No 409M	3/8" ■ 1/4" ○
	No 415SGB	1/4" ○
	No 1410	size T6
	No 1411	size T7
	No 1412	size T8
	No 1413	size T9
	No 1440	size T10
	No 1441	size T15
	No 1442	size T20
	No 1443	size T25
	No 1444	size T27
	No 1445	size T30
	No 1446	size T40
	No 1427	size T25 (65 mm)

	No PZ1221	size 1 (2x)
	No PZ1222	size 2 (2x)
	No PZ1223	size 3
	No 3115/1	1/4" ■ ●
	No 4750	sizes T6; T7; T8; T9; T10; T15; T20; T25; T27; T30
	No 10766	sizes T6; T7; T8; T9; T10; T15; T20; T25; T27; T30; T40
		TORX® controller
	No 55	3/4" ○ sizes 22; 24; 27; 30; 32; 36; 38; 41; 46; 50 mm
	No 552	3/4" ■
	No 556	3/4" ■
	No 559/8	3/4" ■ ○ 200 mm
	No 559/16	3/4" ■ ○ 400 mm
	No 558	510 mm
	No 4720	size 1 (0.6 x 3.5 x 75 mm); size 2 (0.8 x 4 x 100 mm); size 5 (1.2 x 6.5 x 150 mm); size 6 (1.6 x 8 x 175 mm); size 7 (1.6 x 10 x 200 mm); size 8 (2 x 12 x 200 mm)
	No 4724	size 2 (1 x 5.5 x 25 mm)
	No 4728	size 1 (0.4 x 2.5 x 50 mm)
	No 4730	sizes 1; 2; 3
	No 4732	size 4
	No 4734	size 2
	No 4740	sizes 0; 1; 2
	No 4744	size 1
	No 4760 VDE	size 1 (0.4 x 2.5 x 75 mm)
	No 10760	sizes 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10; 12; 14; 17; 19; 22 mm
	No 65 01 5 180	
	No 65 29 5 200	
	No 65 51 6 240	
	No 66 02 5 160	
	No 102	200; 300 mm
	No 103	175 mm
	No 105	120 x 12 mm
	No 108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
	No 10957	∅ 50 mm
	No 10960	500; 800; 1000 g
	No 11006	400 mm
	No 11007	400 mm
	No 12025	200 mm
	No 12036	250 mm
	No 12374	
	No 12600	3000 g
	No 12718	
	No 12931	3 m

3025N Tool set for DaimlerChrysler Unimog

123 tools
DC No 000 589 12 99 00

Code		
		kg
9784 17 12	1 of each	19.8
 No 10	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 14; 13 x 15; 17 x 19; 22 x 24; 27 x 30; 32 x 36 mm	
 No 13	sizes 9; 10; 12; 13; 15; 17; 19; 22; 24; 27; 30; 32 mm	
 No 20	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 17 x 19; 22 x 24; 27 x 32 mm	
 No 24	sizes 10 x 12; 17 x 19 mm	
 No 39	400 mm (2x)	
 No 50	1/2"  sizes 10; 13; 15; 17; 19; 22; 24; 27; 30; 32 mm	
 No 54	1/2"  sizes 5; 6; 8; 10; 14; 17 mm	
 No 506	1/2"  300 mm	
 No 509/2	1/2"   52 mm	
 No 509/5	1/2"   130 mm	
 No 509/10	1/2"   255 mm	
 No 510	1/2"   71 mm	
 No 512	1/2" 	
 No 102	200 mm	
 No 103	200 mm	
 No 104	120 x 2; 120 x 4; 120 x 8 mm	
 No 105	120 x 12 mm	
 No 108	150 x 2.5 mm	
 No 4724	size 2 (1.0 x 5.5 x 25 mm)	
 No 4728	size 2 (0.6 x 3.5 x 75 mm)	
 No 4732	sizes 1; 2; 3	
 No 4734	size 2	
 No 10541	5.5 x 100; 9 x 150; 12 x 200 mm	
 No 10546	size 2 (0.8 x 4 x 100 mm)	
 No 10551	size 1 + 2	
 No 65 01 4 180		
 No 65 43 4 001; 65 43 4 002		
 No 65 45 4 001; 65 45 4 002		
 No 65 46 4 011; 65 46 4 021		
 No 65 47 4 170		
 No 65 51 6 240		
 No 65 64 2 250		
 No 66 02 4 200		
 No 10641		
 No 10750	sizes 8 x 9; 10 x 11 mm	
 No 10670	275 mm	
 No 10760CV/9	1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm	
 No 10957	∅ 40 mm	
 No 10960	500; 800 g	
 No 11095/13	0.05-1 mm	


 No 12000 ISO	
 No 12025	200 mm
 No 12030	250 mm
 No 12035	200 mm
 No 12036	250 mm
 No 12050	465 mm
 No 12052	(5x)
 No 12251	
 No 12320	
 No 12321	
 No 12374	
 No 12500	sizes 9; 10 mm
 No 12600	1800 g
 No 12900	
 No 12905	
 No 12931	3 m
 No 12932	

446/3025N Tool set No 3025N in tool box No 446/08



Code	
	kg
9881 07 17	27.5

DaimlerChrysler cars

51-27 Socket



DC No 001 589 65 09 00
extra deep, bi-hexagon, size 27 mm, 1/2" -drive, for injection nozzles on diesel car engines.



Code	Type		
		g	
0302 00 27	OM 615, 616, 617, 621 (190Dc, 200 D, 200 D/8, 220 D/8, 240 D 3.0, 300 D, DB 206, 207, 306.307, L 406 D, L 407 D, 0309 D)	294	5

51-30 Socket

DC No 000 589 75 09 00
size 30 mm, for injectors.

Code	Type		
		g	
0302 00 30	Diesel	381	5

3000 Socket

DC No 604 589 01 09 00
multi-spline, 1.5 x 58 mm, 1/2" **O**-drive, for use on pre-chamber with indirect injection.



Code	Type	g	g	g
03390001	all diesels from February 1989	185	10	

3505 Special extension



Code	g	g	g
13210001	186	1	

3540-14* Special CROW-FOOT spanner

size 14 mm.

Code	g	g	g
03210014	81	1	

* to be discontinued

10506 Screwdriver

DC No 123 589 00 11 00
length 350 mm, blade 4 x 0.8 mm, for setting correct CO-value on mixture regulating screws.



Code	Type	g	g	g
73010001	M 116, 110, 123	53	10	

3149-8* Universal joint INHEX socket

DC No 117 589 01 07 00
for hexagon socket head screws, size 8 mm, length 300 mm, 3/8" **O**-drive, for cylinder head bolts.



Code	Type	g	g	g
02170008	M 116, 117	268	5	

* to be discontinued

3054-8G INHEX socket

DC No 000 589 34 07 00
for hexagon socket head screws, size 8 mm, length 105 mm, cranked, 1/2" **O**-drive, for cylinder head bolts.



Code	Type	g	g	g
03171308	M 116, 117	100	5	

3054-8L* INHEX socket

DC No 000 589 33 07 00
for hexagon socket head screws, size 8 mm, length 130 mm, 1/2" **O**-drive, for cylinder head bolts.



Code	Type	g	g	g
03151308	M 115, 116, 117	109	5	

* to be discontinued

1054-10 INHEX socket

DC No 000 589 05 07 00
for hexagon socket head screws, size 10 mm, length 140 mm, 1/2" **O**-drive, for cylinder head bolts.



Code	Type	g	g	g
03151410	207, 307, 208, 308, all cars and light weight vans OM615, except 115, 116, 117, 615, 616	150	5	

3054X-M10 Screwdriver BIT

DC No 601 589 00 10 00
for tri-square socket head screws (XZN), size M10, length 140 mm, 1/2" **O**-drive, for cylinder head bolts and drive shaft bolts.



Code	Type	g	g	g
03261410	W 201 (190, 190 E)	142	5	

3054X-M12 Screwdriver BIT

DC No 617 589 00 10 00
size M 12, for cylinder head bolts, with tri-square socket head M 12.



Code	Type	g	g	g
03261412	all from 8/78, 116, 117	160	5	

3004 Screwdriver BIT

DC No 119 589 00 10 00
for tri-square socket head screws (XZN), size M10, length 140 mm, 1/2" \square -drive, for cylinder head bolts.



Code	Type	g	g	g
03230012	M104 (6-cylinder engine), M119 (8-cylinder engine), M120 (12-cylinder engine)	75	5	

3545-17 Special CROW-FOOT spanner

DC No 116 589 02 01 00
size 17 mm, for valve adjustment.



Code	Type	g	g	g
96032101	all from 1968 (except diesel, 250 CE and 3.5-l types M116, 3.5/4.5 l V8)	268	1	

730R/5DC SERVICE-MANOSKOP torque wrench

DC No 001 589 72 21 00
6-50 N m, 3/8" \square -drive, for valve adjustment.



Code	Type	g	g	g
96502005	all	945	1	

730R/12DC SERVICE-MANOSKOP torque wrench

DC No 001 589 72 21 00
25-130 N m, 1/2" \square -drive, for valve adjustment.



Code	Type	g	g	g
96502012	all	1410	1	

11063 Valve sealing ring pliers

DC No 000 589 53 37 00
for removal of valve stem seals.



Code	Type	g	g	g
74290001	190 D	340	1	

11068-1 Piston ring compressor

DC No 000 589 04 14 00
made of spring steel, stepless adjustment, capacity 57-125 mm, height 80 mm, for compressing piston rings \varnothing 60-125 mm.



Code	Type	g	g	g
74140001	all	264	1	

11069-1 Piston ring pliers

DC No 000 589 51 37 00
for piston rings, 50-100 mm, length 200 mm, for mounting piston rings.



Code	Type	g	g	g
74152001	all	245	1	

3054X-M10 Screwdriver BIT

DC No 601 589 00 10 00
for tri-square socket head screws (XZN), size M10, on drive shaft bolts.



Code	Type	g	g	g
03261410	190, 190 E, 190 D (W 201)	142	5	

73 Nm/04 + WKS Special torque wrench

DC No 123 589 02 21 00
capacity 0-400 cN m, 1/2" ■-drive, for steering adjustment and friction check.



Code	Type	g	g	g
50020004	all	499	1	

3731/40-46 Special o/e insert tool

DC No 126 589 00 01 00
use with SERVICE-MANOSKOP torque wrench No 730/12DC and 730/20DC, for 3-part drive shaft.



Code	Type	g	g	g
58304046	200, 230, petrol engine	370	1	

760/60/410 TORSIOMETER torque screwdriver

DC No 001 589 80 21 00
capacity 120-600 cN m, c/w adaptor, complete with No 3116/1 and No 410, with works calibration certificate, for adjustment on servo steering and taper roller.



Code	Type	g	g	g
96510401	all	478	1	

760/7,5-3116/1 TORSIOMETER torque screwdriver

DC No 001 589 81 21 00
15-75 cN m, complete with No 3116/1, for friction measurement on steering gear.

Code	Type	g	g	g
96510402	all	447	1	

11060-4 Internal puller

DC No 000 589 28 33 00
capacity 28-37 mm, for taper roller bearing outer ring on steering housing, to be used with counter stay No 11061-2.



Code	Type	g	g	g
71160004	Steering (123)	361	1	

11061-2 Counter stay with reduction unit

DC No 000 589 34 33 00
for taper roller bearing outer ring on steering housing.



Code	g	g	g
71170002	1569	1	

3028 Tool set in roll-up bag

for car electrics
Content:
13 small double open ended spanners ELECTRIC No 12, sizes 3.5; 4; 4.5; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm,
10 sockets No 40, sizes 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11 mm,
1 drive handle No 400,
1 sliding T-handle No 404,
1 extension No 405/2, 55 mm,
1 extension No 405/6, 150 mm,
1 universal joint No 407, 1/4" ○-drive,
1 adaptor No 409, 1/4" inside 3/8" outside,
1 adaptor No 431, 3/8" inside 1/4" outside,
1 ratchet No 415, reversible, 1/4" ■-drive
1 electricians screwdriver DRALL No 4760 VDE, size 1 (0.4 x 2.5 x 75 mm),
1 waterpump pliers No 87 96 60 05, 175 mm.



Code	Type	g	g	g
97843102	all	1068	1	

3762 Spark plug socket

DC No 102 589 01 09 00
with torque limiter, size 16 mm - 5/8", 3/8" O-drive.



Code	Type	g	Box
9450 17 20	M 102	1000	1

3006 Brake bleeding spanner

DC No 140 589 03 09 00
size 9 mm, length 110 mm, with swivel handle (length 140 mm) and acid proof, transparent plastic hose with adaptor, for use on car brake systems, without removal of wheels.



Code	Type	g	Box
74660009	all	145	1

733/10-11 OPEN RING insert tool

DC No 000 589 75 03 00
size 11 mm, use with SERVICE-MANOSKOP torque wrench No 730/5, for flare nuts on brake lines and bleed screws.



Code	g	Box
5823 10 11	55	1

733/10-14 OPEN RING insert tool

DC No 000 589 76 03 00
size 14 mm, use with SERVICE-MANOSKOP torque wrench No 730/5, for flare nuts on brake lines and bleed screws.

Code	Type	g	Box
5823 10 14	all	60	1

12373 Brake caliper brush

DC No 000 589 26 68 00
extra narrow, for cleaning brake calipers without damage to dust gasket or corrosion protection coating.



Code	Type	g	Box
77440001	all with disc brakes	70	10

54-14 INHEX socket

DC No 001 589 61 09 10
for hexagon socket head screws, size 14 mm, 1/2" O-drive, for use on oil drain plug.



Code	Type	g	Box
030500 14	all	135	5

3045 Socket

DC No 103 589 00 09 00
special 14 point, size 74 mm, with outside hexagon size 22 mm and 10 mm dia. bore, for damage free fitting of oil filter or oil filter cartridge.



Code	Type	g	Box
74370001	DC vehicles from Sept. '84 with engine: M 102: 190/E; 200/T, 230/E/CE/GE/TE, 210, 310, 410/L, 410M, 103: 2.6 + 3.0 I, W 124, M 110: 280 SL/SLC, 280 E/C/CE/GE/TE, 280 S/SE/SEL	131	1

3676* Oil plug spanner

DC No 117 589 02 07 00
size 14 x 13 mm, with 13 mm inside hexagon and 14 mm outside hexagon, for use on oil plug.



Code	Type	g	Box
4406 14 13	102, 107, 110, 114, 115, 116, 117, 123, 124, 126, 129, 201, 615, 616, 617	246	5

* to be discontinued

3677* Oil plug spanner

DC No 000 589 24 07 00
size 14 x 17 mm, with 17 mm inside hexagon and 14 mm outside hexagon, for use on oil plug.



Code	Type	g	5
4403 14 17	107, 108, 109, 111, 113, 114, 115, 116, 123, 124, 126/201, 129	227	5

* to be discontinued

3049-8 INHEX socket

DC No 103 589 01 09 00
for hexagon socket head screws, size 8 mm, length 24 mm, 3/8" \odot -drive, for use on mounting screws on fluid fly-wheel.



Code	Type	g	5
02 15 24 08	103, 602, 603	28	5

51-27 Socket

DC No 001 589 65 09 00
extra deep, bi-hexagon, size 27 mm, 1/2" \odot -drive, for rotating engine through hexagon on crankshaft.



Code	Type	g	5
03020027	all except 100	294	5

3054-8G INHEX socket

DC No 000 589 34 07 00
for hexagon socket head screws, size 8 mm, length 105 mm, 1/2" \odot -drive, for bolts on car engines.



Code	Type	g	5
03 17 13 08	all	100	5

1054-10 INHEX socket

DC No 000 589 05 07 00
for hexagon socket head screws, size 10 mm, length 140 mm, 1/2" \odot -drive for bolts on car engines.



Code	Type	g	5
03 15 14 10	all	150	5

1009DC T-handled INHEX key

DC No 117 589 05 07 00
size 10 mm a/f (with interchangeable INHEX bits), lengths 500 mm, blade 61 mm, consisting of: 1 T-handle, 2 INHEX bits, for tensioning vee-belt on crankshaft and for refrigerator compressor.



Code	Type	g	1
96 18 22 01	8-cylinder engines	567	1

11060-1a Internal puller

DC No 000 589 25 33 00
capacity 14-19 mm, for sealing ring and bearing on crankshaft, use with counter stay No 11061-1



Code	Type	g	1
71 16 00 11	110, 114, 115, 123, 180, 615, 616, 617	181	1

11061-1 Counter stay

DC No 000 589 33 33 00



Code	g	1
71 17 00 01	613	1

11060-2 Internal puller

DC No 000 589 26 33 00
capacity 18-23 mm, for bearing bush of idler gear on oil pump drive,
use with counter stay No 11061-2



Code	Type		
		g	
71 160002	100	206	1

11061-2 Counter stay



Code		
	g	
71 170002	1569	1

440-17DC CROW-RING spanner

DC No 000 589 69 03 00
size 17 mm, $\frac{3}{8}$ " O-drive, for use on pipes for air conditioning unit.



Code		
	g	
02 1900 17	40	1

440-19DC CROW-RING spanner

DC No 000 589 70 03 00
size 19 mm.

Code		
	g	
02 1900 19	40	1

440-22DC CROW-RING spanner

DC No 000 589 71 03 00
size 22 mm.

Code		
	g	
02 1900 22	57	1

440-24DC CROW-RING spanner

DC No 000 589 72 03 00
size 24 mm.

Code		
	g	
02 1900 24	57	1

735/20DC Ratchet insert tool

DC No 000 589 10 99 32
reversible, $\frac{1}{2}$ " ■-drive, use with SERVICE-MANOSKOP torque wrench
No 730/12DC and 730/20DC, for general service work.



Code		
	g	
58 2500 20	302	1

730R/5DC SERVICE-MANOSKOP torque wrench

DC No 001 589 72 21 00
capacity 6-50 N m, $\frac{3}{8}$ " ■-drive, for general service work.



Code	Type		
		g	
96 50 20 05	all	945	1

730R/12DC SERVICE-MANOSKOP torque wrench

DC No 001 589 66 21 00
25-130 N m, $\frac{1}{2}$ " ■-drive



Code	Type		
		g	
96 50 20 12	all	1410	1

730R/20DC SERVICE-MANOSKOP torque wrench

DC No 001 589 67 21 00
40-200 N m, $\frac{1}{2}$ " ■-drive.



Code		
	g	
96 50 20 20	1555	1

11060-1 Internal puller

DC No 000 589 25 33 00
capacity 12-16 mm, for use on bearings, seals and bushes.



Code	Type	g	g	g
71 160001	all	166	1	

11060-2 Internal puller

DC No 000 589 26 33 00
capacity 18-23 mm.

Code	Type	g	g	g
71 160002	all	206	1	

11060-3 Internal puller

DC No 000 589 27 33 00
capacity 20-30 mm.

Code	Type	g	g	g
71 160003	all	200	1	

11060-4 Internal puller

DC No 000 589 28 33 00
capacity 28-40 mm.

Code	Type	g	g	g
71 160004	all	361	1	

11060-5 Internal puller

DC No 000 589 29 33 00
capacity 36-46 mm.

Code	Type	g	g	g
71 160005	all	667	1	

11060-6 Internal puller

DC No 000 589 30 33 00
capacity 46-58 mm.

Code	Type	g	g	g
71 160006	all	1187	1	

11061-1 Counter stay

DC No 000 589 33 33 00
for Internal Puller No 11060/0-3, for use on bearings, seals and bushes.



Code	Type	g	g	g
71 170001		613	1	

11061-2 Counter stay

DC No 000 589 34 33 00
for internal puller No 11060/4-7.

Code	Type	g	g	g
71 170002		1569	1	

12506-7 Hexagon nut spinner

DC No 123 589 12 09 00
flexible, size 7 mm, for screws on hose clips of radiator hose,
max. tightening torque 8 N m.



Code	Type	g	g	g
43 100007	all	109	10	

12975 Fuel hose clamp

DC No 000 589 40 37 00
capacity up to \varnothing 20 mm, for stopping fuel flow temporarily.



Code	Type	g	g	g
74 340001	all	38	10	

DaimlerChrysler HGVs

24-17x19 OPEN-RING spanner

DC No 000 589 07 03 00
bi-hexagon, size 17 x 19 mm,
for all threaded connectors on injector pipes.



Code	Type	g	Box
41081719		151	10

51-30 Socket

DC No 000 589 75 09 00
extra deep, bi-hexagon, size 30 mm, 1/2" O-drive, on injector post.



Code	Type	g	Box
03020030	Trucks, OM314, OM352A, OM360, OM 360A, OM346/355	381	5

440-27DC CROW-RING spanner

DC No 000 589 78 03 00
for setting of electronic injection on 440-HP-engines.



Code	Type	g	Box
02191027	OM442	92	1

1051-22* Socket

DC No 001 589 79 09 00
bi hexagon, AS-drive, size 22 mm, 1/2" O-drive, for fuel,
oil and coolant temperature sensor.



Code	Type	g	Box
03120022	trucks with engine type Axor, 457, 541, 542	161	5

* to be discontinued

3678 4-pin socket

DC No 403 589 04 07 00
length 72 mm, 1/2" O-drive, for use on pressure nut of injector post.



Code	Type	g	Box
03810001	OM401/421, OM402/422, LA, A, OM403/423, OM470h	153	5

3054-8L* INHEX sockets

DC No 001 589 61 09 07
for hexagon socket head screws, size 8 mm, length 130 mm, 1/2" O-drive,
for cylinder head bolts.



Code	Type	g	Box
03151308	Truck M115	109	5

* to be discontinued

1054-10 INHEX sockets

DC No 000 589 05 07 00
for hexagon socket head screws, size 10 mm, length 140 mm, 1/2" O-drive,
for cylinder head bolts.



Code	Type	g	Box
03151410	Truck M115, OM615, OM616	150	5

3054X-M12 Screwdriver BIT

DC No 617 589 00 10 00
for tri-square socket head screws (XZN), size 12, length 140 mm,
Ø 11.5 mm, 1/2" O-drive for cylinder head bolts with tri-square
socket head M 12.



Code	Type	g	Box
03261412	615, 616, 617.91, 617.95	160	5

11068-2 Piston ring compressor

DC No 000 589 38 31 00
of special spring steel, infinitely variable adjustment,
c/w adj. spanner, capacity Ø 90-175 mm.



Code	Type	g	g	g
74 14 00 03	314, 352, 352A, 360, 360h, 346/355, 401, 402, 403, 407h	309	1	

55-30 Socket

DC No 303 589 06 09 00
size 30 mm, hexagon 3/4" O-drive, for U-bolt nuts, front.



Code	Type	g	g	g
05 01 00 30	all Trucks	313	5	

55-36 Socket

DC No 303 589 07 09 00
size 36 mm, for U-bolt nuts, rear.

Code	Type	g	g	g
05 01 00 36	all trucks	386	2	

8-46 Striking ring spanner

DC No 001 589 43 09 01
size 46 mm, drive tool for socket No 61, size 46 mm, for nut on drive shaft bearing.



Code	Type	g	g	g
42 01 00 46	rear axle HD 3/6	1218	1	

8-65 Striking ring spanner

DC No 001 589 22 09 01
size 65 mm, drive tool for socket No 61, size 65 mm, for nut on drive shaft pinion.

Code	Type	g	g	g
42 01 00 65	rear axle HL7/07, 7/015, HD7/016 DG	3209	1	

61-46* Striking socket

DC No 001 589 43 09 02
size 46 mm, equal inside and outside hexagon dimensions, 1" O-drive, for nut on drive shaft bearing.



Code	Type	g	g	g
06 03 00 46	rear axle HD 3/6	873	1	

* to be discontinued

61-65* Striking socket

DC No 001 589 22 09 02
size 65 mm, for nut on drive shaft pinion.

Code	Type	g	g	g
06 03 00 65	rear axle HL7/07, 7/015, HD7/016 DG	2245	1	

* to be discontinued

3570 Special set

DC No 001 589 72 09 00
Content:
1 Socket, bi-hexagon, No 3060,
size 65 mm, 1" O-drive
1 extension No 559/4, 1 adaptor No 569,
3/4" socket 1" plug,
for rear axle.



Code	Type	g	g	g
96 06 01 05	all	2790	1	

760/60/410 TORSIOMETER-torque screwdriver

DC No 001 589 80 21 00
capacity 120-600 cN m c/w Adaptor No 410, 1/4" - socket 1/2" plug,
with works calibration certificate, complete with No 3116/1,
for adjustment on servo steering and taper roller bearing.



Code	Type	g	g	g
96 51 04 01	LS 5, 7	478	1	

730R/40 SERVICE-MANOSKOP torque wrench

DC Special
DC No 000 589 10 99 01
80-400 N m, 1/2" ■-drive, for general service work.
Attention:
maximum permissible load for Ratchet attachment 1/2" ■-drive
= 300 N m.



Code	Type	g	g	g
96502054		2130		1

3731/40-24 Special o/e insert tool

DC No 000 589 10 99 21
size 24 mm, use with SERVICE-MANOSKOP torque wrench
No 730/40, for drive shaft.



Code	Type	g	g	g
58304024	Trucks	223		1

1068 Air filter claw

DC No 655 589 00 61 00
capacity 100-145 mm, total height 85 mm, length of claws 60 mm,
1/2" ○-drive for loosening of filter cartridges on air brakes (trucks).



Code	Type	g	g	g
74620011	all	925		1

3003* Special ring spanner

size 24 mm, 3/4" ○-drive, use with SERVICE-MANOSKOP torque wrench
No 730R/40 for use on central screw of compressor wheel.



Code	Type	g	g	g
58340024	Series 400	535		1

* to be discontinued

8-46 Striking ring spanner

DC No 001 589 43 09 01
size 46 mm, drive tool for socket No 61, size 46 mm,
for screws on belt pulley, vibration damper.



Code	Type	g	g	g
42010046	Truck with eng. OM 314, OM 352A	1218		1

8-65 Striking ring spanner

DC No 001 589 22 09 01
size 65 mm, drive tool for socket No 61, size 65 mm.

Code	Type	g	g	g
42010065	Truck with eng. OM 346, OM355	3209		1

61-46* Striking socket

DC No 001 589 43 09 02
size 46 mm, equal inside and outside hexagon, 1" ○-drive,
for screws on belt pulley, vibration damper.



Code	Type	g	g	g
06030046	Truck with eng. OM 314, OM 352A	873		1

* to be discontinued

61-65* Striking socket

DC No 001 589 22 09 02
size 65 mm.

Code	Type	g	g	g
06030065	Truck with eng. OM 346, OM355	2245		1

* to be discontinued

24-10x12 OPEN-RING spanner

DC No 000 589 51 03 00
hexagon, size 10 x 12 mm, for general service work.



Code	Type	g	g	g
41 08 10 12	all	59	10	

440-30 CROW-RING spanner

DC No 425 581 00 66 00
size 30 mm, 1/2" O-drive for use on hydraulic pipe flare nuts.



Code	Type	g	g	g
03 19 00 30	Trucks, Unimog	155	1	

540-19DC CROW-FOOT spanner

DC No 000 589 27 01 00
size 19 mm, for use on new push connector for pneumatic installations on new light-weight truck series.



Code	Type	g	g	g
02 20 00 19	all	64	1	

540-24DC CROW-FOOT spanner

DC No 000 589 28 01 00
size 24 mm.

Code	Type	g	g	g
02 20 00 24		60	1	

730R/2DC SERVICE-MANOSKOP torque wrench

DC No 001 589 75 21 00
capacity 4-20 N m, 3/8" drive, for use on new push connector for pneumatic installations on new light-weight truck series.



Code	Type	g	g	g
96 50 20 02	all	455	1	

730R/40/32 Torque wrench set

DC No 000 589 10 99 00
32 pieces, in steel case, for general service work.
Content:
1 SERVICE-MANOSKOP No 730/40, 80-400 N m,
1 ratchet insert tool No 735/20, reversible, 1/2" drive;
1 square drive insert tool No 734/20, 1/2" drive;
8 o/e insert tools No 731/40, sizes 13, 15, 17, 19, 22, 27, 30 mm
1 No 3731/40 size 24 mm;
7 ring insert tools No 732/40, sizes 13, 15, 17, 19, 22, 24, 27 mm;
10 sockets, bi-hexagon No 50, sizes 13, 14, 15, 17, 19, 22, 24, 25, 30, 32 mm
4 accessories, 1/2" drive:
1 T-handle No 506
1 extension 255 mm No 509/10
1 extension 130 mm No 509/5
1 extension 55 mm No 509/2



Code	Type	g	g	g
96 50 20 53	all	9739	1	

54/12 Set of INHEX sockets

DC No 001 589 61 09 00
for hexagon socket head screws, in steel case, for general service work.
Content:
12 INHEX sockets No 54, sizes 4, 5, 6, 7, 8, 10, 12, 14, 17, 19 mm,
No 3054/8, No 1054/10, 1/2" drive.



Code	Type	g	g	g
96 03 05 03	OM 403	2131	1	

553/7K Set of accessories

DC No 001 589 18 09 00
in steel case, for general service work.

Content:

- 1 adaptor 1/2" socket 3/4" plug No 514;
- 1 extension 200 mm No 559/8;
- 1 extension 400 mm No 559/16;
- 1 adaptor 3/4" socket 1/2" plug 568;
- 1 adaptor 3/4" socket 1" plug No 569;
- 1 sliding head No 556, 1 ratchet head No 552,
- 2 bar handles No 558, 3/4" ■-drive.



Code	Type	Δ	g	☐
96 150602	all	9180		1

721NF/80DC Standard-MANOSKOP torque wrench

DC No 001 589 74 21 00
capacity 160-800 N m, 3/4" ■-drive, for general service work.



Code	Type	Δ	g	☐
50200081	all	6770		1

Fiat

54CV/9 Set: Screwdriver sockets

for spline socket head screws (Ribe CV).
for brakes and cylinders head bolts.

Content:

- M5; M6; M7; M8; M9; M10; M12; M13; M14



Code	Type	Δ	g	☐
96030901	all	1420		1

54CV Screwdriver sockets

for spline socket head screws (Ribe CV), length 60 mm, 1/2" ○-drive,
for brakes and cylinder head bolts.



Code	size	Type	Δ	g	☐
03090007	M7	all	78		5
03090009	M9	all	92		5
03090013	M13	all	123		5

11068-1 Piston ring compressor

Fiat-No A 60 605

made of special spring steel, stepless adjustment c/w hexagon key
wrench, capacity: 57-125 mm, height 80 mm, for compressing piston
rings.



Code	Type	Δ	g	☐
74 140001	126, 127, 128, X 1/9, 130, 131, 132, 850T, 238	264		1

11069-1 Piston ring pliers

Fiat-No A 60 182

for piston rings Ø 50-100 mm, length 200 mm, for manipulating piston
rings.



Code	Type	Δ	g	☐
74 152001	126, 127, 133, 850T	245		1

12962* Valve adjusting tool

for exchange of discs with valve clearance disc pliers No 12956.



Code	Type	Δ	g	☐
74080003	128, 128 Rallye, 128 Coupé, X 1/9, Uno 50 PS, Ritmo	139		1

* to be discontinued

12956* Valve clearance disc pliers

reinforced tips with milled profile for better grasp of disc, for exchange of discs.



Code	Type	g	kg	Box
74070002	128, 128 Rallye, 128 Coupé, X 1/9, Uno 50 PS, Ritmo	231		1

* to be discontinued

46-19 Socket

Fiat-No A 57 052 extra deep, bi-hexagon, size 19 mm, 3/8" O-drive, for front mounting screw of top steering link on front wheel suspension.



Code	Type	g	kg	Box
02020019	1500, 125	134		10

10765-12 Hexagon key wrench

Fiat-No A 5013 long, for hexagon socket head screws, size 12 mm, for oil drain plug on engine, gearbox and rear axle.



Code	Type	g	kg	Box
43210012		287		5

1054-13 INHEX socket

for hexagon socket head screws, size 13 mm, length 70 mm, 1/2" O-drive, for oil drain plug on engine.



Code	Type	g	kg	Box
03150713	Lancia	130		5

10760CV-2,5 - 17 Hexagon key wrench



Fiat No A 89 601 up to A 89611 for hexagon socket head screws, size 2.5 mm up to 17 mm (see page 207).

Ford

2011 Tool set for Ford

77 tools

Code	Type	kg
97840601	1 of each	11
	No 13	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 22; 24 mm
	No 20	sizes 10 x 11; 12 x 13; 14 x 15; 16 x 17; 19 x 22 mm
	No 24	sizes 11 x 13; 12 x 14; 16 x 19 mm
	No 452	3/8" ■
	No 46	3/8" O size 20.8 mm-13/16"
	No 52	1/2" O sizes 8; 10; 11; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24 mm
	No 54	1/2" O size 6 mm
	No 3054/8	1/2" O size 8 mm
	No 3545/19	1/2" O size 19 mm
	No 54CV	1/2" O sizes M6; M8
	No 506	1/2" ■ 300 mm
	No 509/10	1/2" ■ O 255 mm
	No 509/5	1/2" ■ O 130 mm
	No 509/3	1/2" ■ O 75 mm
	No 510	1/2" ■ O 71 mm
	No 512	1/2" ■
	No 4720	size 2 (0.8 x 4.0 x 100 mm); size 3 (1.0 x 5.5 x 125 mm)
	No 4722	size 3 (1.2 x 8.0 x 150 mm)
	No 4724	size 2 (1.0 x 5.5 x 25 mm)
	No 4728	size 1 (0.4 x 2.5 x 50 mm)
	No 4730	sizes 1; 2; 3
	No 4740	sizes 1; 2; 3
	No 10760CV	sizes 4; 8 mm
	No 65 43 4 002	
	No 65 44 4 021	
	No 65 45 4 002	
	No 65464021	
	No 65516240	
	No 66005145	
	No 10613/1	330 mm
	No 102	150 mm
	No 105	120 x 10 mm
	No 108	150 x 4 mm
	No 10956	∅ 35 mm
	No 10960	500 g
	No 11095/13	0.05-1 mm
	No 12374	

3505 Special extension



Code	g	g	g
13210001	186		1

12963* Valve adjustment tool

for exchange of discs, use with valve clearance disc pliers No 12956.



Code	Type	g	g
74080004	1.6/1.8 l diesel Fiesta, Escort, Orion, 1.8 l Sierra Turbo	234	1

* to be discontinued

12956* Valve clearance disc pliers

reinforced tips with milled profile for better grasp of discs, for exchange of discs.



Code	Type	g	g
74070002	1.6/1.8 l diesel Fiesta, Escort, Orion, 1.8 l Sierra Turbo	231	1

* to be discontinued

3045K Oil service spanner

size 74 mm, 14-point, with outside hexagon size 22 mm and 10 mm dia. bore, extremely compact (height 44 mm) for awkward places.



Code	Type	g	g
74370003	Mondeo from 02/2002	104	1

1056-10* Oil service spanner

outside square size 10 mm, length 36 mm, 1/2" O-drive, for drain plugs on sump, gearbox, differential.



Code	Type	g	g
03320010	Sierra, Granada Diesel	61	5

* to be discontinued

50TX-E11 Socket

for external TORX® screws, size E11, 1/2" O-drive, for use on mounting screws of vibration damper on Ford gearbox MT 75.



Code	g	g
03270011	50	10








Honda

2007 Tool set for Honda

46 tools

Code	kg
97840507	6.4
No 13	sizes 8; 10; 12; 14; 16; 17; 18; 19 mm
No 50	1/2" O size 10 mm
No 51	1/2" O size 14 mm
No 52	1/2" O sizes 8; 10; 12; 14; 16; 17; 18; 19; 21 mm
No 1040	1/2" O size 20.8 mm-13/16"
No 509/10	1/2" O 255 mm
No 509/3	1/2" O 75 mm
No 510	1/2" O 71 mm
No 512	1/2" O
No 4720	size 2 (0.8 x 4.0 x 100 mm)
No 4722	size 1 (1 x 5.5 x 100 mm); size 2 (1.2 x 6.5 x 125 mm)
No 4724	size 1 (0.6 x 3.5 x 25 mm); size 2 (1.0 x 5.5 x 25 mm)
No 4730	sizes 1; 3
No 4734	size 2
No 12507	sizes 8; 10; 12 mm
No 65 29 4 160	
No 65 46 6 011	
No 65 51 6 240	






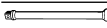





















Honda

	No 66 00 5 145	
	No 105	120 x 10 mm
	No 108	115 x 2; 150 x 3 mm
	No 10956	∅ 40 mm
	No 10960	500 g
	No 12718	
	No 7756	

Mazda

2006 Tool set for Mazda

76 tools

Code		kg
97 84 05 06	1 of each	10.8
	No 10	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 30 x 32 mm
	No 20	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 30 x 32 mm
	No 24	size 10 x 11 mm
	No 51	1/2" ∅ size 20.8 mm-13/16"
	No 52	sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 27; 30; 32 mm
	No 509/10	1/2" ∅ 255 mm
	No 509/5	1/2" ∅ 130 mm
	No 510	1/2" ∅ 71 mm
	No 512	1/2" ■
	No 4720	size 2 (0.8 x 4.0 x 100 mm)
	No 4722	size 2 (1.2 x 6.5 x 125 mm); size 3 (1.2 x 8 x 150 mm); size 4 (1.6 x 10 x 175 mm)
	No 4728	size 1 (0.4 x 2.5 x 50 mm); size 2 (0.6 x 3.5 x 75 mm)
	No 4730	sizes 1; 2; 3
	No 10546	size 1 (0.6 x 3.5 mm); size 4 (1.2 x 8.0 mm)
	No 10760CV	sizes 2; 3; 4; 5; 6; 8 mm
	No 65 30 4 200	
	No 65 51 6 240	
	No 66 02 4 180	
	No 102	150 mm
	No 105	120 x 10 mm
	No 108	115 x 2; 150 x 4 mm
	No 10956	∅ 35 mm
	No 10960	500 g
	No 11095/20	0.05-1 mm
	No 12374	
	No 12718	
	No 7756	



1042 Tubular spark plug spanner

size 16 mm, length 270 mm, 3/8" ∅-drive.



Code	Type	g	g
02 23 00 16	626, 16 valves DOHC engine from 1987, 323, 1.6 l and 1.9 l from 1989, MX 5, 1.6 l from 1990	203	5

51aIMP 13/16-20,8* IMPACT socket

extra deep, hexagon, for power drivers, size 20.8-13/16", 1/2" ∅-drive, for wheel nuts.



Code	Type	g	g
23 42 00 42	all	290	5

* to be discontinued

1056-10* Socket

outside square size 10 mm, length 36 mm, 1/2" ∅-drive, for oil filter- and drain plug on rear axle.



Code	Type	g	g
03 32 00 10	all with rear wheel drive	61	5


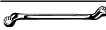


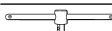







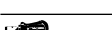














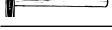
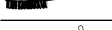



* to be discontinued



Mitsubishi

2009 Tool set for Mitsubishi

78 tools

Code		kg
97840509	1 of each	9.1
 No 10	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 18; 17 x 19; 20 x 22; 24 x 27; 30 x 32 mm	
 No 20	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 30 x 32 mm	
 No 46M	3/8" O size 20.8 mm-13/16"	
 No 456	3/8" O sizes 7; 8; 9; 10; 11; 12; 13; 14; 16; 17; 18; 19; 21; 22 mm	
 No 425	3/8" ■ 165 mm	
 No 427/3	3/8" ■ O 76 mm	
 No 427/5	3/8" ■ O 125 mm	
 No 427/18	3/8" ■ O 455 mm	
 No 428	3/8" ■ O 46 mm	
 No 432	1/2" ■ 3/8" O	
 No 435	3/8" ■	
 No 3054	1/2" O sizes 6; 8 mm	
 No 4722	size 2 (1.2 x 6.5 x 125 mm); size 3 (1.2 x 8 x 150 mm); size 4 (1.6 x 10 x 175 mm)	
 No 4724	size 2 (1.0 x 5.5 x 25 mm)	
 No 4728	size 1 (0.4 x 2.5 x 50 mm); size 2 (0.6 x 3.5 x 75 mm)	
 No 4730	sizes 1; 2; 3	
 No 4734	size 2	
 No 10760CV R/8	sizes 2; 2.5; 3; 4; 5; 6; 8; 10 mm	
 No 65 30 4 200		
 No 65 43 4 002		
 No 65 44 4 021		
 No 65 45 4 002		
 No 65 46 4 021		
 No 65 51 6 240		
 No 66 02 4 180		
 No 102	200 mm	
 No 105	120 x 10 mm	
 No 108	115 x 2; 150 x 3 mm	
 No 10960	500 g	
 No 12374		
 No 12763		
 No 7756		

24-14x17 OPEN-RING spanner

XB 990716

bi-hexagon size 14 x 17 mm, 17 mm for fuel pipes, 14 mm for servo-assisted steering.



Code	Type	g	g
4108 14 17	all models with servo-steering and 4D55	115	10

51-27 Socket

MD 998387

long, bi-hexagon, size 27 mm, 1/2" O-drive, for injector nozzles (diesel, Colt, Lancer, L300, Galant, Turbo D), for nozzle carrier (Pajero 4-wheel-drive diesel 4D55).



Code	Type	g	g
0302 00 27		294	5

1007* Socket

long, bi-hexagon, AS drive, relief-turned inside, size 22 mm, 1/2" O-drive, for diesel injector.



Code	Type	g	g
0384 00 22	Mitsubishi 4D65	144	10

* to be discontinued

1054-10 INHEX socket

MD 998051

for hexagon socket head screws, size 10 mm, length 140 mm, 1/2" O-drive, for cylinder head bolts.



Code	Type	g	g
0315 14 10	4D55, 4G6	150	5

3054-8 INHEX socket

MD 998360

for hexagon socket head screws, size 8 mm, length 80 mm, 1/2" O-drive, for cylinder head bolts (motor 4G1, 4G3, L 300), for free wheel hub (Pajero).



Code	Type	g	g
0315 08 08		88	5

24-14x17 OPEN-RING spanner

XB 990716
bi-hexagon, size 14 x 17 mm,
14 mm for servo-steering,
17 mm for fuel pipes.



Code	Type	g	kg
41 08 14 17	all models with servo-steering and 4D55	115	10

4750-T40 Screwdriver

MB 990826
for inside TORX® screws,
size T40, on steering column.



Code	Type	g	kg
47 50 10 40	all	86	5

11041-3 Ball joint separator

MB 990809
for steering rod.



Code	Type	g	kg
71 23 00 03	Lancer, L300, Pajero	875	1

54TX-T40 Screwdriver BIT

XB 900000
for inside TORX® screws, size T40,
1/2" O-drive, safety belt mountings.



Code	Type	g	kg
03 10 00 40	Starion	72	5

2005 Tool set for Nissan

67 tools

Code	Type	kg
97 84 05 05	1 of each	9.5
No 13	sizes 8; 10; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 32 mm	
No 46	3/8" O size 20.8 mm-13/16"	
No 4600	3/8" O size 16 mm-5/8"	
No 50	1/2" O size 12 mm	
No 52	1/2" O sizes 10; 12; 14; 16; 17; 18; 19; 20; 21; 24; 27; 30; 32 mm	
No 54	1/2" O sizes 6; 8; 10; 12; 14 mm	
No 1054/10	1/2" O size 10 mm	
No 3545/17	1/2" O size 17 mm	
No 506	1/2" ■ 300 mm	
No 509/10	1/2" ■ O 255 mm	
No 509/5	1/2" ■ O 130 mm	
No 510	1/2" ■ O 71 mm	
No 512	1/2" ■	
No 513	3/8" ■ 1/2" O	
No 4722	size 1 (1 x 5.5 x 100 mm); size 3 (1.2 x 8 x 150 mm)	
No 4724	size 2 (1.0 x 5.5 x 25 mm)	
No 4730	sizes 2; 3	
No 4734	size 2	
No 12507	sizes 8; 10; 12 mm	
No 65 44 4 021		
No 65 45 4 001		
No 65 45 4 002		
No 65 46 4 011		
No 65 46 4 021		
No 65 51 6 240		
No 66 02 4 180		
No 105	120 x 10 mm	
No 108	115 x 2; 150 x 3 mm	
No 10956	∅ 40 mm	
No 10960	500 g	
No 11095/20	0.05-1 mm	
No 12600	500 g	

1007* Socket

extra deep, bi-hexagon, AS-drive, relief-turned inside, size 22 mm, 1/2" O-drive, for diesel injector.



Code	Type	g	kg
03840022	Terrano TD 25, 27 from 1988	144	10

* to be discontinued

3545-17 Special CROW-FOOT spanner

made up from special extension No 3505 and special CROW-FOOT No 3540, size 17 mm, 1/2" O-drive, for valve adjustment.



Code	Type	g	kg
96032101	Violet 710, A10, Bluebird 610, 810, 910, Skyline C110, C210, Laurel 230, C31, 260Z S30, 280ZX-T, S130, Patrol 160	268	1

1056-8 Socket

outside square size 8 mm, length 36 mm, 1/2" O-drive, for drain plugs on sump, gearbox, differential.



Code	Type	g	kg
03320008	Micra 1.5 I from 1998	51	5

OPEL

2002 Tool set for OPEL

96 tools

Code	1 of each	kg
97840502	1 of each	12.4
No 10	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32 mm	
No 20	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32 mm	
No 21	sizes 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19 mm	
No 29	sizes 8 x 9; 10 x 11; 12 x 13 mm	
No 50	1/2" O sizes 8; 9; 10; 11; 12; 13; 14; 15; 17; 19; 22; 24; 27; 28; 30; 32 mm	
No 51	1/2" O sizes 13; 15 mm	
No 54X	1/2" O sizes M6; M8; M10	
No 2054X/M8	120 mm	
No 2054X/M10	110 mm	
No 2054X/M12	110 mm	
No 506	1/2" ■ 300 mm	
No 509/10	1/2" ■ O 255 mm	
No 509/5	1/2" ■ O 130 mm	
No 510	1/2" ■ O 71 mm	
No 512	1/2" ■	
No 4720	size 2 (0.8 x 4.0 x 100 mm); size 3 (1.0 x 5.5 x 125 mm); size 5 (1.2 x 6.5 x 150 mm)	
No 4724	size 1 (0.6 x 3.5 x 25 mm)	
No 4728	size 1 (0.4 x 2.5 x 50 mm); size 3 (0.6 x 3.5 x 100 mm)	
No 4730	sizes 1; 2; 3	
No 4734	sizes 1; 2	
No 12500	sizes 9; 10 mm	
No 10760CV	sizes 2; 3; 4; 5; 6; 8 mm	
No 10760aCV	size 1/8"	
No 65 30 4 200		
No 66 00 5 145		
No 102	125; 200 mm	
No 104	120 x 3; 120 x 5; 120 x 8 mm	
No 105	120 x 10 mm	
No 108	115 x 2; 150 x 4; 175 x 3 mm	
No 10670	205 mm	
No 10940	∅ 55 mm	
No 10956	∅ 35 mm	
No 10960	500 g	
No 11095/13	0.05-1 mm	
No 12005		
No 12374		
No 7756		

1051-19* Socket

bi-hexagon, AS-drive, size 19 mm, 1/2" \odot -drive, for use on Gear Box mounted Reversing Light Switch.



Code	Type	g	g	g
03 12 00 19	Kadett E, Astra, Ascona C, Vectra, Calibra, Corsa	113	5	

* to be discontinued

1029* Brake adjustment lever

for rear wheel brake shoes.



Code	Type	g	g	g
74 03 00 00	Bedford Blitz	190	5	

* to be discontinued

Peugeot

2004 Tool set for Peugeot

66 tools

Code	Type	kg
97 84 05 04	1 of each	9.6

	No 10	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 18; 17 x 19; 21 x 23; 22 x 24; 27 x 32 mm
	No 23	sizes 6 x 7; 10 x 11; 12 x 13; 14 x 15; 17 x 19; 20 x 22; 21 x 23; 24 x 27; 30 x 32 mm
	No 27	size 14 x 17 mm
	No 456	3/8" \odot sizes 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22 mm
	No 46	3/8" \odot size 20.8 mm-13/16"
	No 427/5	3/8" \blacksquare \odot 125 mm
	No 427/6	3/8" \blacksquare \odot 160 mm
	No 427/18	3/8" \blacksquare \odot 455 mm
	No 428	3/8" \blacksquare \odot 46 mm
	No 435	3/8" \blacksquare
	No 3425	3/8" \odot 300 mm
	No 4720	size 2 (0.8 x 4.0 x 100 mm)
	No 4722	size 3 (1.2 x 8.0 x 150 mm)
	No 4728	size 3 (0.6 x 3.5 x 100 mm)
	No 4730	size 2
	No 4732	size 3
	No 4740	sizes 2; 3
	No 10760CV	sizes 2; 4; 6; 8; 10; 12 mm
	No 65 30 4 200	

	No 65 43 4 002	
	No 65 45 4 002	
	No 65 47 4 170	
	No 65 51 6 240	
	No 66 02 4 180	
	No 108	115 x 2; 150 x 3 mm
	No 10613/1	330 mm
	No 10652	210 mm
	No 10960	500 g
	No 11095/13	0.05-1 mm
	No 7756	

1043 Tubular spark plug spanner

extra long, with rubber insert, for deeply recessed, difficult-to-reach spark-plugs with M12 x 1.25 mm threads.



Code	No	Type	mm	L mm	g	g
02 23 00 14	1043	406 HPI	14	90	52	1
02 23 10 14	1043/1	406 HPI	14	250	144	1

1041 Lubrication service spanner

size 8 mm outside square and size 10 mm inside bi-square, length 235 mm, for drain plugs on sump, gearbox, differential.



Code	Type	g	g
74 41 00 01	all Peugeot	360	5

1056-8 Socket

outside square size 8 mm, length 36 mm, 1/2" \odot -drive, for drain plugs on sump, gearbox, differential.



Code	Type	g	g
03 32 00 08	all	51	5

1056-10* Socket

size 10 mm.



Code	Type	g	kg
033200 10	106, 205, 305, 306, 309	61	5

* to be discontinued

1058 Oil service spanner

bent, size 8 and 10 mm outside square, for drain plugs on sump, gearbox, differential.



Code	Type	g	kg
447308 10	all	314	5

Porsche

1100TCS Tool set for Porsche



229 tools, in TCS inlays (Tool Control System see page 42-50), 1x1/3, 1x2/3 and 5x3/3 inlays for 6 drawers.

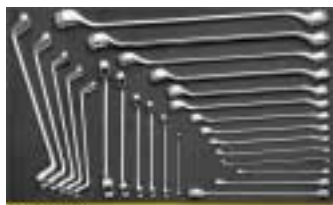
Code	kg
978304 11	27.1



96 83 01 92



96 83 01 93



96 83 01 94



96 83 01 95



96 83 01 96







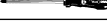











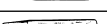

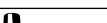





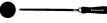
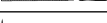

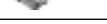




96 83 01 97



96 83 01 98






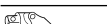


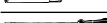

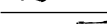





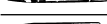









	No 12	sizes 5.5; 12; 14 mm (2x)
	No 13	sizes 7; 11 mm (2x); sizes 6; 8; 9; 10; 12; 13; 14; 15; 16; 17; 18; 19; 20; 22; 24; 30; 32; 36 mm (1x)
	No 14	size 17 mm
	No 20	sizes 10 x 11; 12 x 13; 14 x 15; 17 x 19; 19 x 22 mm
	No 23	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 30 x 32 mm
	No 24	sizes 8 x 10; 11 x 13; 12 x 14; 17 x 19; 22 x 24; 24 x 27; 30 x 32 mm
	No 29	sizes 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22 mm
	No 40	1/4" O sizes 3,5; 4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13 mm
	No 44	1/4" O sizes 3; 4; 5; 6 mm
	No 400	1/4" ■ 150 mm
	No 404	1/4" ■ 116 mm
	No 405/6	1/4" ■ O 150 mm
	No 407	1/4" ■ O 38 mm
	No 409M	3/8" ■ 1/4" O
	No 415QR	1/4" ■
	No 45	3/8" O sizes 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm
	No 46	3/8" O size 20.8 mm-13/16"
	No 49	3/8" O sizes 4; 5; 6; 7; 8; 10 mm
	No 425	3/8" ■ 165 mm
	No 427/3	3/8" ■ O 76 mm
	No 427/10	3/8" ■ O 240 mm
	No 428	3/8" ■ O 46 mm
	No 432M	1/2" ■ 3/8" O
	No 435	3/8" ■
	No 50	1/2" O sizes 19; 21; 22; 24; 27; 30; 32 mm
	No 52	1/2" O sizes 16; 17; 18; 19; 22; 24; 27; 30; 32 mm
	No 54	1/2" O sizes 6; 7; 8; 10 mm
	No 54X	1/2" O sizes M6; 8; 12; 14
	No 506	1/2" ■ 300 mm
	No 509/5	1/2" ■ O 130 mm
	No 509/10	1/2" ■ O 255 mm
	No 510	1/2" ■ O 71 mm
	No 512	1/2" ■
	No 514M	3/4" ■ 1/2" O
	No 21TX	sizes E6 x E8; E10 x E12; E14 x E18; E20 x E24
	No 40TX	1/4" O sizes E4; E5; E6; E7; E8
	No 45TX	3/8" O sizes E10; E12; E14
	No 50TX	1/2" O sizes E11; E16; E18; E20; E24
	No 54TX	1/2" O sizes T45; T50; T55; T60

	No 1410	size T6
	No 1411	size T7
	No 1412	size T8
	No 1413	size T9
	No 1440	size T10
	No 1441	size T15
	No 1442	size T20
	No 1443	size T25
	No 1444	size T27
	No 1445	size T30
	No 1446	size T40
	No 1427	size T25 (65 mm)
	No 415SGB	1/4" O
	No 4750	sizes T6; T7; T8; T9; T10; T15; T20; T25; T27; T30
	No 10766/9	sizes T8; T9; T10; T15; T20; T25; T27; T30; T40
	No 4722	size 1 (1 x 5.5 x 100 mm); size 2 (1.2 x 6.5 x 125 mm); size 4 (1.6 x 10 x 175 mm); size 5 (2 x 12 x 200 mm)
	No 4724	size 2 (1.0 x 5.5 x 25 mm)
	No 4730	size 1
	No 4732	size 3
	No 4734	size 2
	No 10760CV/9	1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm
	No 65 01 4 180	
	No 65 43 4 002	
	No 65 45 4 002	
	No 65 46 4 021	
	No 65 51 6 240	
	No 66 02 4 160	
	No 100	150 mm
	No 101	150 mm
	No 104	120 x 4; 120 x 6 mm
	No 105	120 x 12 mm
	No 108	150 x 4 mm
	No 10670	255 mm
	No 10940	∅ 55 mm
	No 10955	∅ 35 mm
	No 10960	300; 500 g
	No 11095/20	20 blades 0.05-1 mm
	No 12005	
	No 12025	200 mm
	No 12036	250 mm
	No 12321	
	No 12905	
	No 12931	3 m

Renault

2003 Tool set for Renault

73 tools

Code		kg
97840503	1 of each	7.7
	No 13	sizes 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 27; 32 mm
	No 21	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19 mm
	No 456	3/8" O sizes 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22 mm
	No 425	3/8" ■ 165 mm
	No 427/6	3/8" ■ O 160 mm
	No 427/10	3/8" ■ O 240 mm
	No 428	3/8" ■ O 46 mm
	No 432	1/2" ■ 3/8" O
	No 435	3/8" ■
	No 51	1/2" O size 17 mm
	No 4720	size 2 (0.8 x 4.0 x 100 mm); size 3 (1.0 x 5.5 x 100 mm)
	No 4724	size 1 (0.6 x 3.5 x 25 mm)
	No 4728	size 3 (0.6 x 3.5 x 100 mm)
	No 4730	sizes 1; 2
	No 10546	size 1 (0.6 x 3.5 mm)
	No 10760CV	sizes 2; 2.5; 3; 4; 5; 6; 8 mm
	No 65 51 6 240	
	No 66 02 4 180	
	No 102	150 mm
	No 105	120 x 10 mm
	No 10956	∅ 27 mm
	No 10960	500 g
	No 11095/13	0.05-1 mm
	No 12374	
	No 12718	
	No 7756	

1043 Tubular spark plug spanner

extra long, with rubber insert, for deeply recessed, difficult-to-reach spark-plugs with M12 x 1.25 mm threads.



Code	No	Type	mm	L mm	g	
02230014	1043	Twingo, Clio, Kangoo with engine 1.2l, 16V	14	90	52	1
02231014	1043/1		14	250	144	1

1003* Special combination spanner

bent, o/e size 10 mm, ring-bi-square, size 10 mm, for brake adjustment.



Code	Type	g	5
4070 10 10	all	156	5

* to be discontinued

1041 Oil service spanner

size 8 mm plug, size 10 mm bi-square socket, for engine oil drain plug and gearbox.



Code	Type	g	5
7441 00 01	all from 1983	360	5

1056-8 Socket

plug size 8 mm square, 1/2" O-drive, for engine oil drain plug.



Code	Type	g	5
0332 00 08	all from 1983	51	5

1056-10* Socket

size 10 mm



Code	Type	g	5
0332 00 10	all until 1983	61	5

* to be discontinued

Toyota

2008 Tool set for Toyota

97 tools

Code		kg
9784 05 08	1 of each	12.2
No 13	sizes 8; 9; 10; 12; 14; 16; 17; 18; 19; 21; 22; 24; 26; 27; 28; 30; 32 mm	
No 40/23/6N	1/4" O No 40 sizes 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm No 41K sizes 0.6 x 3.5; 1 x 5.5; 1.2 x 8 mm No 44K: 3; 4; 5; 6; 8 mm No 44P: sizes 1; 2; 3; 4 No 400; 404; 405/2; 405/6; 407; 415	
No 51	1/2" O sizes 14; 16 mm; 20.8 mm-13/16"	
No 52	1/2" O sizes 10; 12; 14; 16; 17; 18; 19; 20; 24; 27; 30; 32 mm	
No 506	1/2" 300 mm	
No 509/10	1/2" O 255 mm	
No 509/5	1/2" O 130 mm	
No 510	1/2" O 71 mm	
No 512	1/2" 3	
No 4720	size 2 (0.8 x 4.0 x 100 mm)	
No 4722	size 2 (1.2 x 6.5 x 125 mm); size 3 (1.2 x 8 x 150 mm)	
No 4724	size 2 (1.0 x 5.5 x 25 mm)	
No 4730	sizes 2; 3	
No 4732	size 4	
No 4734	size 2	
No 4750	sizes T20; T30	
No 12500	sizes 7; 8; 10; 12; 14 mm	
No 65 29 5 160		
No 65 44 4 021		
No 65 45 4 002		
No 65 46 4 021		
No 65 47 4 170		
No 66 02 4 180		
No 105	120 x 10 mm	
No 108	115 x 2; 125 x 3; 150 x 4; 150 x 5 mm	
No 10956	ø 40 mm	
No 10960	500 g	
No 11095/20	0.05-1 mm	
No 12600	3000 g	
No 12718		

VW/Audi

1000N Tool set for Volkswagen

93 tools

Code		kg
97840011	1 of each	12
No 10	sizes 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24; 24 x 27 mm	
No 13	sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21 mm	
No 20	sizes 8 x 10; 12 x 13; 17 x 19; 22 x 24 mm	
No 50	1/2" sizes 8; 9; 10; 11; 12; 13; 14; 15; 17; 18; 21 mm	
No 52	1/2" sizes 19; 22; 24; 27; 30; 32 mm	
No 51	1/2" size 20.8; 27 mm	
No 452	3/8"	
No 54	1/2" size 12 mm	
No 1095	1/2" size 17 mm	
No 1054/5	1/2" 180 mm	
No 1054/6	1/2" 70 mm	
No 1054/6L	1/2" 220 mm	
No 1054/7	1/2" 100 mm	
No 1054/8K	1/2" 120 mm	
No 1054/10	1/2" 140 mm	
No 1054X/M8	1/2" 80 mm	
No 3054X/M12	1/2" 140 mm	
No 2054X/M10	1/2" 110 mm	
No 509/5	1/2" 130 mm	
No 509/10	1/2" 255 mm	
No 510	1/2" 71 mm	
No 512	1/2"	
No 102	150 mm	
No 104	120 x 2 mm	
No 105	120 x 12 mm	
No 108	115 x 2; 150 x 4; 150 x 6; 200 x 8 mm	
No 4724	size 3 (1.2 x 8 x 25 mm)	
No 4729	size 3 (0.6 x 3.5 x 100 mm)	
No 4730	sizes 1; 2	
No 4732	size 3	
No 10541	size 5.5 x 100; 9 x 150 mm	
No 10760CV	sizes 2.5; 5; 6; 7; 8; 10 mm	
No 10670	275 mm	
No 65 01 4 180		
No 65 51 6 240		
No 66 02 4 160		
No 10955	∅ 35 mm	
No 10960	500 g	
No 11095/13	0.05-1 mm	
No 12321		
No 12931	3 m	

1020N Body tool set for Volkswagen

56 tools

Code		kg
97842011	1 of each	15.4
No 13	sizes 8; 9; 10; 11; 12; 13; 14; 15; 17; 19; 22; 24 mm	
No 104	120 x 4; 120 x 6 mm	
No 105	120 x 10 mm	
No 112		
No 4722	size 1 (1 x 5.5 x 100 mm); size 3 (1.2 x 8 x 150 mm); size 4 (1.6 x 10 x 175 mm)	
No 4724	size 2 (1.0 x 5.5 x 25 mm)	
No 4728	size 1 (0.4 x 2.5 x 50 mm); size 5 (1 x 5.5 x 150 mm)	
No 4730	sizes 1; 2	
No 4732	size 3	
No 65 01 4 200		
No 65 51 6 240		
No 65 64 2 250		
No 10670	230 mm	
No 10760CV	size 8 mm	
No 10790		
No 10855		
No 10866		
No 10900	400 mm	
No 10916		
No 10917		
No 10922		
No 10923	530 mm	
No 10925	5 pieces	
No 10958		
No 10960	300; 500 g	
No 11005	410 mm	
No 11006	400 mm	
No 12321		
No 12374		
No 12507-2K	sizes 6; 8; 10; 11; 13 mm	
No 12725		
No 12726		
No 12752L, No 12752R		
No 12770		

1007* Socket

long, bi-hexagon, AS-drive, relief-turned inside, size 22 mm, 1/2" O-drive, for diesel injector



Code	Type	g	g	g
03840022	Polo 1.3 I Diesel	144	10	

* to be discontinued

1054-13 INHEX socket

for hexagon socket head screws, size 13 mm, length, 70 mm, 1/2" O-drive, for use on brass air-cooled injector nozzles.



Code	Type	g	g	g
03150713	for engines with fuel injection	130	5	

1023* Single ended spanner

size 13 mm, for mounting screws on injection pump, adjusting injector timing, changing, toothed belt on 1.6 I 4-cylinder diesel.



Code	Type	g	g	g
41110013	Audi 80 L, CL, GL, CD, Golf, Jetta, Caddy, Passat, Santana	67	1	

* to be discontinued

11063 Valve sealing ring pliers

for removing valve stem seals on water cooled engines.



Code	Type	g	g	g
74290001	all	340	1	

12108 Valve spring mounting tool

length 300 mm.



Code	Type	g	g	g
74570001		780	1	

12960* Valve adjustment tool

for use with clearance disc pliers No 12956, on all 4-cylinder engines with bucket tappets until model year 1982.



Code	Type	g	g	g
74080001	Golf, Jetta, Caddy, Scirocco, Passat, Iltis, Santana, Audi 80, 100	206	1	

* to be discontinued

12956* Valve clearance disc pliers

reinforced tips with milled profile for better grasp of discs, for exchange of discs.



Code	Type	g	g	g
74070002	all from 1.3 I	231	1	

* to be discontinued

1051-19* Socket

bi-hexagon, AS-drive, size 19 mm, 1/2" O-drive, for use on front suspension.



Code	Type	g	g	g
03120019	Polo from 10.81, Derby from 2.82, Polo Coupé, Audi 50	113	5	

* to be discontinued

1051-21* Socket

size 21 mm.

Code	Type	g	
03 12 00 21	Golf and Jetta from 4/87, Golf III and Vento from 93, Passat from 88	140	5

* to be discontinued

1051-22* Socket

size 22 mm.

Code	Type	g	
03 12 00 22	Golf and Jetta until 1987, Scirocco, Caddy, Golf 84, Passat from 11.80, Santana, Audi 80, Audi 100 from 9.82, Audi 200 from 9.83, Audi Coupé, Quattro, Audi 80 Quattro	161	5

* to be discontinued

10765-7 Hexagon key wrench

size 7 mm (for use with No 1051-19, No 1051-22), for use as counter stay on front suspension.



Code	Type	g	
43 21 00 07	Polo, Derby, Golf, Jetta, Scirocco, Passat, Audi 80, 100, 200, Coupé	74	10

12495 Brass punch

Ø 20 mm, length 200 mm, for use on bushes bearing rings, steering pivot pin.



Code	Type	g	
77 13 00 00	all	533	5

1040* Spark plug socket

hexagon, with rubber insert, size 20.8 mm-13/16", 1/2" O-drive



Code	Type	g	
03 14 02 08	all, except 16-valve engines	170	5

* to be discontinued

1042 Tubular spark plug spanner

size 16 mm, length 270 mm, 3/8" O-drive.



Code	Type	g	
02 23 00 16	all 16-valve engines (4 valves per cylinder), Scirocco GTX 16 V, 20-valve engines, Golf GTI 16 V, 20-valve engines, Passat 2 l, 16 V (5 cylinder, 4 valves per cylinder), Audi 90	203	5

1029* Brake adjusting lever

for drum brakes.



Code	Type	g	
74 03 00 00	all	190	5

* to be discontinued

1054KK-5 INHEX socket

with ball-point hexagon, size 5 mm, length 238 mm, 1/2" O-drive, for use on socket head screws with difficult access up to an angle of 25°, size 5 mm for use on sump screws of 5 cylinder diesel engine, van T4.



Code	Type	g	
03 31 00 05	all	145	5

1054KK-8 INHEX socket

size 8 mm, length 238 mm.



Code	Type	g	
03 31 00 08	all	154	5

1060/4 Accessory set for SERVICE-MANOSKOP No 730/2

for controlled torque tightening of screws on automatic transmission.

Content:

- No 736/10 Bit-holder insert tool with 5/16" inside hexagon,
- No 1322 Bit for hexagon socket head screws, size 5 mm,
- No 1232 Bit for Phillips screws, size 2,
- No 432 adaptor 3/8" socket x 1/2" plug.



Code	Type	g	g	g
96582601	all	110	1	

730/2 SERVICE-MANOSKOP torque wrench

capacity 4-20 N m.



Code	Type	g	g	g
50180002		315	1	

734/5 Square drive insert tool

3/8" O-drive, for use with SERVICE-MANOSKOP torque wrench No 730/2.



Code	Type	g	g	g
58240005		76	1	

12717 Pin wrench

offset, distance between pins 18 mm, pin dia. Ø 2.9 mm, length 140 mm, for ring nut of tension pulley on 1.6 l diesel.



Code	Type	g	g	g
44700018	2/80 Golf, Jetta, Passat, Audi 80	75	10	

720NF/80 Standard-MANOSKOP torque wrench

capacity 160-800 N m, 3/4" O-drive



Code	Type	g	g	g
50190081	LT Syncro	5650	1	

730/5 SERVICE-MANOSKOP torque wrench

capacity 5-50 N m, for general service work.



Code	Type	g	g	g
50180005	all	805	1	

732/10-13 Ring insert tool

size 13 mm, for use with SERVICE-MANOSKOP torque wrench No 730/5.



Code	Type	g	g	g
58221013		56	1	

734/10 Square drive insert tool

1/2" O-drive, for use with SERVICE-MANOSKOP torque wrench No 730/5.



Code	Type	g	g	g
58240010		82	1	

735/10 Ratchet insert tool

reversible, 1/2" ■-drive, for use with SERVICE-MANOSKOP torque wrench No 730/5.



Code		
	g	
58 25 00 10	147	1

730/20 SERVICE-MANOSKOP torque wrench

capacity 40-200 N m.



Code		
	g	
50 18 00 20	1250	1

734/20 Square drive insert tool

1/2" ■-drive, for use with SERVICE-MANOSKOP torque wrench No 730/20.



Code		
	g	
58 24 00 20	203	1

735/20 Ratchet insert tool

reversible, 1/2" ■-drive, for use with SERVICE-MANOSKOP torque wrench No 730/20.



Code	Type		
		g	
58 25 00 20	all	302	1

730/40 SERVICE-MANOSKOP torque wrench

capacity 80-400 N m.



Code		
	g	
50 18 00 40	1655	1

734/40 Square drive insert tool

3/4" ■-drive, for use with SERVICE-MANOSKOP torque wrench No 730/40.



Code		
	g	
58 24 00 40	396	1

735/40 Ratchet insert tool

reversible, 3/4" ■-drive, for use with SERVICE-MANOSKOP torque wrench No 730/40.



Code		
	g	
58 25 00 40	467	1

12619 Hose clip pliers

with outside hexagon, size 19 mm, 3/8" O-drive, for use on steel spring clamps on exhaust pipe flange.



Code	Type		
		g	
74 35 00 01	from 79-88	400	1


1421 Bit screwdriver socket

for inside TORX® screws, outside  1/4" C 6.3 size T45, length 26 mm, for use on door hinges.

Drive Tools:

f.e. ratchet reversible No 725/4B and ratchet tap holder No 1820 or ratchet reversible No 725/4B and torque wrench.



Code	Type	 g	
08 13 00 45	Golf III	8	10

Volvo

12960* Valve adjustment tool

for depressing tappets.

for use with clearance disc pliers No 12956.




Code	Type	 g	
74 08 00 01	240D, 244GLD, 244GLD6, 245GLD6, 760D	206	1

* to be discontinued

12956* Valve clearance disc pliers


reinforced tips with milled profile for better grasp of disc, for exchange of discs.





Code	 g	
74 07 00 02	231	1

* to be discontinued

7600 Universal torque limiter

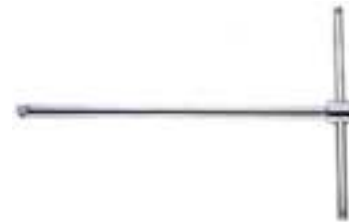
15-35 N m, adjustable, cut-out, $\frac{3}{8}$ " -drive, for spark plugs.





Code	Type	 g	
50 16 00 35	all	236	1


3425 T-handle

length 300 mm, $\frac{3}{8}$ " -drive





Code	 g	
12 17 00 01	456	5

1056-8 Socket plug

for square socket head screws, size 8 mm, $\frac{1}{2}$ " -drive, for drain plug on sump.



Code	Type	 g	
03 32 00 08	264	51	5

1056-10* Socket plug

size 10 mm



Code	Type	 g	
03 32 00 10	all until 1983	61	5

* to be discontinued

The STAHLWILLE-KABELEX® range

Tools/bushes	Private cars										Lorries				Contact size mm	No
	BMW	Daimler-Chrysler	Fiat	Ford	Mazda	Opel	PSA	Renault	Volvo	VW/Audi Seat/Skoda/Porsche	Daimler-Chrysler	MAN	Scania	Volvo		
Round plug systems/ crimp-contacts*)		●	●	●					●	●	●	●		●	∅ 1.5	1501 + 1511
		●	●	●					●	●	●	●		●	∅ 3.5	1502 + 1512
											●	●	●	●	∅ 4 ABS	1503 + 1513, 1523
		●	●						●						∅ 2.5	1504 + 1514
					●			●	●						∅ 2.3	1505 + 1515
											●	●			∅ 4	1506 + 1516
													●		∅ 1.5 long	1507 + 1517
		●	●												∅ 1.5 long	1508 + 1518
Round plug systems/ soldered contacts				●	●	●									∅ 1.5 ^{pin} contact	1575
			●												∅ 4	1584
			●	●											∅ 2.5	1585
Flat plug systems with 2 or more locking tongues Crimp contacts		●	●		●		●	●	●	●		●			2.8	1551
		●		●	●		●	●	●	●		●			5.8	1552
			●				●	●	●	●					1.6	1556
			●							●					9.5 Maxi Power Timer-contacts	1559
							●								2.8 ducon	1565
							●								1.5 ducon	1566
							●								4.8/6.3 ducon	1567
							●								9.5 ducon	1568
												●			VKR box contact	1577
												●		●	MKR/MKS-contacts	1577-1
		●	●												SLK-contacts (primary)	1578K-1
		●	●												SLK-contacts 97 (primary + secondary)	1578K-2
		●	●												LSK-contacts	1589K
			●												1.65 E 95	1587
												●			For GSK-flat-fuse contacts (1-, 2- and 3-channel plugs, 2, 4 and 6 locking tongues)	1588
	●	●	●	●		●	●	●	●	●	●	●	●	2.8/5.8 Junior Power Timer-contacts Standard Power Timer-contacts	1591	
Flat plug systems with 2 locking tongues asymmetrical Crimp contacts									●					0.64 MOS asymmetrically	1556-1	
									●		●			2.8	1557	
									●					4.8	1558	
					●			●		●					2.8	1572
Flat plug systems with 1 locking tongue Crimp contacts		●	●	●	●	●	●	●	●	●		●		2.8/5.8	1553	
		●					●	●	●					2.8	1554	
		●					●	●						5.8	1555	
		●	●	●	●	●	●	●	●	●	●	●	●	●	several pid-pod	1562
							●								0.8 ducon	1563
							●								1.5 ducon	1564
				●	●	●	●	●	●	●					1.6 without box	1574
Secondary locking device												●		2.8	1576	
				●	●	●								hook	1573	

*) The complete tool consists of ejection tool with bush.

And certified to DIN EN ISO 9001

After STAHLWILLE was certified,
as one of the very first companies back in 1990,
to DIN EN ISO 9002, our Quality Assurance System
was also certified to DIN EN ISO 9001 in 1992.





Kilopondmeter – Newtonmeter

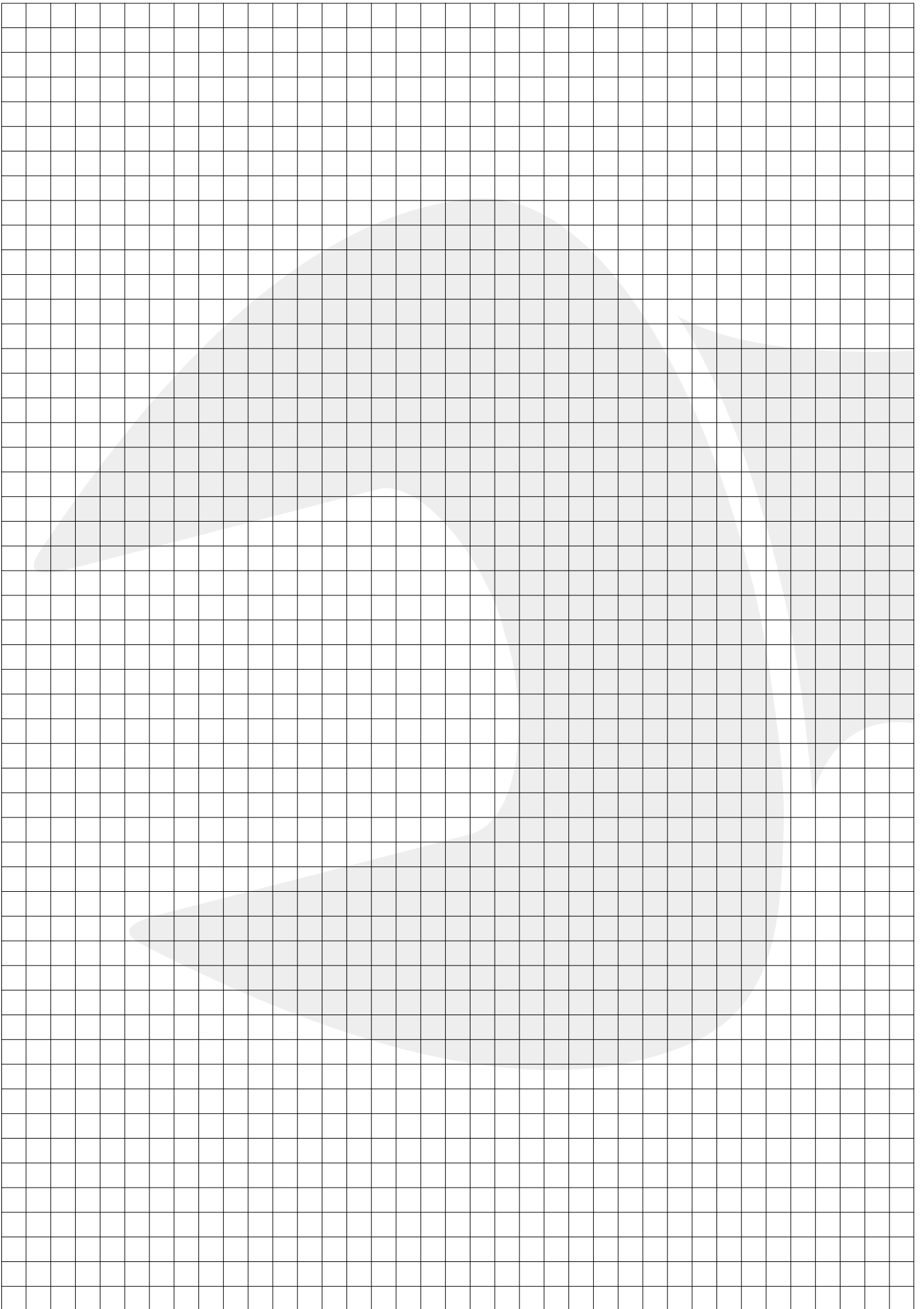
kpm – Nm

kpm	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	Nm									
0	0.0	1.0	2.0	2.9	3.9	4.9	5.9	6.9	7.9	8.8
1	9.8	10.8	11.8	12.8	13.7	14.7	15.7	16.7	17.7	18.6
2	19.6	20.6	21.6	22.6	23.5	24.5	25.5	26.5	27.5	28.4
3	29.4	30.4	31.4	32.4	33.3	34.3	35.3	36.3	37.3	38.3
4	39.2	40.2	41.2	42.2	43.2	44.1	45.1	46.1	47.1	48.1
5	49.0	50.0	51.0	52.0	53.0	53.9	54.9	55.9	56.9	57.9
6	58.8	59.8	60.8	61.8	62.8	63.7	64.7	65.7	66.7	67.7
7	68.7	69.6	70.6	71.6	72.6	73.6	74.5	75.5	76.5	77.5
8	78.5	79.4	80.4	81.4	82.4	83.4	84.3	85.3	86.3	87.3
9	88.3	89.2	90.2	91.2	92.2	93.2	94.1	95.1	96.1	97.1
10	98.1	99.1	100.0	101.0	102.0	103.0	104.0	104.9	105.9	106.9
11	107.9	108.9	109.8	110.8	111.8	112.8	113.8	114.7	115.7	116.7
12	117.7	118.7	119.6	120.6	121.6	122.6	123.6	124.6	125.5	126.5
13	127.5	128.5	129.5	130.4	131.4	132.4	133.4	134.4	135.3	136.3
14	137.3	138.3	139.3	140.2	141.2	142.2	143.2	144.2	145.1	146.1
15	147.1	148.1	149.1	150.0	151.0	152.0	153.0	154.0	155.0	155.9
16	156.9	157.9	158.9	159.9	160.8	161.8	162.8	163.8	164.8	165.7
17	166.7	167.7	168.7	169.7	170.6	171.6	172.6	173.6	174.6	175.5
18	176.5	177.5	178.5	179.5	180.4	181.4	182.4	183.4	184.4	185.4
19	186.3	187.3	188.3	189.3	190.3	191.2	192.2	193.2	194.2	195.2
20	196.1	197.1	198.1	199.1	200.1	201.0	202.0	203.0	204.0	205.0
21	205.9	206.9	207.9	208.9	209.9	210.8	211.8	212.8	213.8	214.8
22	215.8	216.7	217.7	218.7	219.7	220.7	221.6	222.6	223.6	224.6
23	225.6	226.5	227.5	228.5	229.5	230.5	231.4	232.4	233.4	234.4
24	235.4	236.3	237.3	238.3	239.3	240.3	241.2	242.2	243.2	244.2
25	245.2	246.2	247.1	248.1	249.1	250.1	251.1	252.0	253.0	254.0
26	255.0	256.0	256.9	257.9	258.9	259.9	260.9	261.8	262.8	263.8
27	264.8	265.8	266.7	267.7	268.7	269.7	270.7	271.6	272.6	273.6
28	274.6	275.6	276.6	277.5	278.5	279.5	280.5	281.5	282.4	283.4
29	284.4	285.4	286.4	287.3	288.3	289.3	290.3	291.3	292.3	293.2
30	294.2	295.2	296.2	297.1	298.1	299.1	300.1	301.1	302.1	303.0
31	304.0	305.0	306.0	307.0	307.9	308.9	309.9	310.9	311.9	312.8
32	313.8	314.8	315.8	316.8	317.7	318.7	319.7	320.7	321.7	322.6
33	323.6	324.6	325.6	326.6	327.5	328.5	329.5	330.5	331.5	332.5
34	333.4	334.4	335.4	336.4	337.4	338.3	339.3	340.3	341.3	342.3
35	343.2	344.2	345.2	346.2	347.2	348.1	349.1	350.1	351.1	352.1
36	353.0	354.0	355.0	356.0	357.0	357.9	358.9	359.9	360.9	361.9
37	362.9	363.8	364.8	365.8	366.8	367.8	368.7	369.7	370.7	371.7
38	372.7	373.6	374.6	375.6	376.6	377.6	378.5	379.5	380.5	381.5
39	382.5	383.4	384.4	385.4	386.4	387.4	388.3	389.3	390.3	391.3
40	392.3									

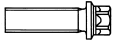
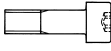
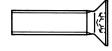



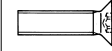



Foot Pound – Newtonmeter

ft.lb – Nm

ft.lb	0	1	2	3	4	5	6	7	8	9
	Nm									
0	0.0	1.4	2.7	4.1	5.4	6.8	8.1	9.5	10.9	12.2
10	13.6	14.9	16.3	17.6	19.0	20.3	21.7	23.1	24.4	25.8
20	27.1	28.5	29.8	31.2	32.5	33.9	35.3	36.6	38.0	39.3
30	40.7	42.0	43.4	44.7	46.1	47.5	48.8	50.2	51.5	52.9
40	54.2	55.6	56.9	58.3	59.7	61.0	62.4	63.7	65.1	66.4
50	67.8	69.2	70.5	71.9	73.2	74.6	75.9	77.3	78.6	80.0
60	81.4	82.7	84.1	85.4	86.8	88.1	89.5	90.8	92.2	93.6
70	94.9	96.3	97.6	99.0	100.3	101.7	103.0	104.4	105.8	107.1
80	108.5	109.8	111.2	112.5	113.9	115.3	116.6	118.0	119.3	120.7
90	122.0	123.4	124.7	126.1	127.5	128.8	130.2	131.5	132.9	134.2
100	135.6	136.9	138.3	139.7	141.0	142.4	143.7	145.1	146.4	147.8
110	149.1	150.5	151.9	153.2	154.6	155.9	157.3	158.6	160.0	161.3
120	162.7	164.1	165.4	166.8	168.1	169.5	170.8	172.2	173.6	174.9
130	176.3	177.6	179.0	180.3	181.7	183.0	184.4	185.8	187.1	188.5
140	189.8	191.2	192.5	193.9	195.2	196.6	198.0	199.3	200.7	202.0
150	203.4	204.7	206.1	207.4	208.8	210.2	211.5	212.9	214.2	215.6
160	216.9	218.3	219.6	221.0	222.4	223.7	225.1	226.4	227.8	229.1
170	230.5	231.9	233.2	234.6	235.9	237.3	238.6	240.0	241.3	242.7
180	244.1	245.4	246.8	248.1	249.5	250.8	252.2	253.5	254.9	256.3
190	257.6	259.0	260.3	261.7	263.0	264.4	265.7	267.1	268.5	269.8
200	271.2	272.5	273.9	275.2	276.6	277.9	279.3	280.7	282.0	283.4
210	284.7	286.1	287.4	288.8	290.2	291.5	292.9	294.2	295.6	296.9
220	298.3	299.6	301.0	302.4	303.7	305.1	306.4	307.8	309.1	310.5
230	311.8	313.2	314.6	315.9	317.3	318.6	320.0	321.3	322.7	324.0
240	325.4	326.8	328.1	329.5	330.8	332.2	333.5	334.9	336.2	337.6
250	339.0	340.3	341.7	343.0	344.4	345.7	347.1	348.5	349.8	351.2
260	352.5	353.9	355.2	356.6	357.9	359.3	360.7	362.0	363.4	364.7
270	366.1	367.4	368.8	370.1	371.5	372.9	374.2	375.6	376.9	378.3
280	379.6	381.0	382.3	383.7	385.1	386.4	387.8	389.1	390.5	391.8
290	393.2	394.5	395.9	397.3	398.6	400.0	401.3	402.7	404.0	405.4
300	406.8									



TORX® Screw Sizes, according to DIN

DIN										
M 2										
ST 2.2										
M 2.5		T8	T8	T8						
ST 2.9								T8	T8	T8
M 3	E4	T10	T10	T10	T10	T10	T10			
M 3.5			T15	T15		T15				
ST 3.5								T10	T10	T10
ST 3.9								T15	T15	T15
M 4	E5	T20	T20	T20	T20	T20	T20			
ST 4.2								T20	T20	T20
ST 4.8								T25	T25	T25
M 5	E6	T25	T25	T25	T25	T25	T25			
ST 5.5								T25	T25	T25
M 6	E8	T30	T30	T30	T30	T30	T30			
ST 6.3								T30	T30	T30
M 7										
M 8	E10	T45	T40	T45	T45	T45	T40			
M 10	E12	T50	T50	T50	T50	T50	T50			
M 12	E14	T55			T55					
M 14	E18	T60			T60					
M 16	E20	T70			T70					
M 18	E24	T80			T80					
M 20	E24	T90			T90					
M 22		T100*								
Camcar Licence sheet	TMF-16001	TMF-17012	TMF-17065	TMF-17066	TMF-17069	TMF-17085	TMF-17091	TMF-17081	TMF-17082	TMF-17083

*Special screw

Screw correlation for TORX®-Tools

size	mm	metr.	Screws	"
E4	3.8	M3	2.2-2.9	
E5	4.7	M4	-	
E6	5.7	M5	-	
E7	6.2	M6	-	
E8	7.5	M6-M7	3.5-4.2	
E10	9.4	M8	-	
E11	10.1	-	-	
E12	11.1	M10	-	
E14	12.9	M12	-	
E16	14.7	M12	-	
E18	16.6	M14	-	
E20	18.4	M16	-	
E24	22.1	M18-M20	-	

size	mm	metr.	Screws	"
T6	1.6	M2	-	
T7	2.0	M2.5	2.2	
T8	2.3	M2.5	-	
T9	2.5	M3	2.9	
T10	2.7	M3-M3.5	-	
T15	3.3	M3.5-M4	3.5	
T20	3.8	M4-M5	4.2	
T25	4.4	M4.5-M5	4.8	
T27	5.0	M4.5-M5-M6	-	
T30	5.5	M6-M7	-	
T40	6.6	M7-M8	-	
T45	7.8	M8-M10	-	
T50	8.8	M10	-	
T55	11.2	M12	-	
T60	13.2	M14	-	
T70	15.5	M16	-	
T80	17.6	M18	-	
T90	19.9	M20	-	
T100	22.1	M22	-	

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100,15	100,85	100	68				68		68						68													
105,20	106,00	105	72				72		72						72													
105,33	105,97																											
108,51	109,14																											
110,20	111,00	110	76				76		76						76													
114,91	115,57																											
115,20	116,00	115	80				80		80																			
116,20	117,00	116													80													
118,08	118,77																											
120,20	121,00	120	85				85		85																			

¹⁾ maximum and minimum dimensions for metric sizes according to DIN 475/2 series 1 and ISO 691 (machined tolerances), American sizes according to ANSI B 18.2.1 + ASME/ANSI B 18.2.2

²⁾ DIN ISO 4014, 4016, 4017, 4018, 4032, 4034, 4035, 4036, 8673, 8674, 8675, 8676, 8676, sizes in brackets only DIN 439, 555, 558, 601, 609, 610, 917, 931, 933, 934, 935, 936, 937, 960, 961, 979, 980, 985, 986, 1587, 2510/5, 6330, 6331, 7967, 7968, 7990

³⁾ DIN 6914, 6915, 7999 (SW 21 + 34)

⁴⁾ DIN 561, 564

⁵⁾ DIN 6921, 6922

⁶⁾ DIN 6923, 6926, 6927

⁷⁾ Standards prior to 1963

⁸⁾ old standards

- a) Hex Flat and Hex Flat Jam Nuts
Hex Nuts and Hex Jam Nuts
Hex Slotted Nuts
Hex Thick Nuts
Hex Thick Slotted Nuts
Hex Castle Nuts

- b) Square Nuts

- c) Heavy Square Nuts
Heavy Hex Flat Nuts
Heavy Hex Flat Jam Nuts
Heavy Hex Nuts
Heavy Hex Jam Nuts
Heavy Hex Slotted Nuts

ASME/ANSI B 18.2.2-1987

- d) ANSI B 18.6.3 - 1972

- e) Square Bolts
Hex Bolts
Hex Cap Screws
Lag Screws

- f) Heavy Hex Bolts
Heavy Hex Structural Bolts
Heavy Hex Screws

- g) ANSI B 18.6.3 - 1972 (R 1983)

- h) ANSI B 18.6.2 - 1972 (R 1983)














































* Square Bolt and Lag Screws only

ANSI B 18.2.1-1981

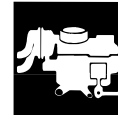
SP= Spark Plug

Symbols used throughout this catalogue

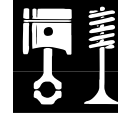
Pictogram

	Spanner Opening		for Trisquare Socket Head Screws
	Spanner Opening for Hexagon Socket Head Screws		for Inside TORX® Screws
	TORX® size in mm		for Inside TORX® Screws with hollow drive tip
	Outside Square		for 5-star screws
	Inside Square		for Outside TORX® Screws
	Inside Hexagon	TORX® registered trademark of CAMCAR/TEXTRON INC., Rockford, Illinois, USA STAHLWILLE holds the Manufacturing Licence for TORX® Tools	
	Outside Hexagon		for Spline Socket Head Screws Ribe-CV® registered trademark of Richard Bergner GmbH & Co.
	Pipe Diameter, inside		for Slotted Head Screws
	Pipe Diameter, outside		for TRI-WING® Screws registered trademark of Phillips Screw Company
	Size of Insert Tool Carrier in mm (MANOSKOP) (Inside Square)		for TORQ-SET® Screws registered trademark of Phillips Screw Company
	Size of Shell Tool Carrier in mm (MANOSKOP) (Outside Square)		Diameter in mm
	Open Ring Spanner, hexagon		AS-drive Anti-Slip-drive
	Open Ring Spanner, bi-hexagon		HFO High-Performance-Quality
	Socket, hexagon		Scale Range
	Socket, bi-hexagon		Scale Division
	Socket, hexagon, AS-drive		Weight
	Socket, bi-hexagon, AS-drive		Standard Pack (pieces)
	Socket, bi-square		full flush cutting
	Socket, spline-drive		semi flush cutting
	for Socket Head Screw, hexagon		standard bevel
	for Socket Head Screw, hexagon with guide pin		Safety insulated as per IEC 900 – AC 1000 V
	for Phillips-Recessed head Screws Phillips-Recess®, registered trademark of Phillips Screw Company		Safety tested
	for POZIDRIV/SUPADRIV Screws POZIDRIV/SUPADRIV®, registered trademark of European Industrial Services Ltd.		= new items

Special Tools for



Carburettor, Fuel Injection Systems



Valves, Pistons



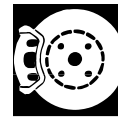
Chassies, Steering



Car Bodies



Ignition, Electric, Electronic



Brakes, Wheels



Lubrication Service



Engine, Drive train



Other Tools



Eduard Wille GmbH & Co. KG
P.O.Box 12 01 03
42331 Wuppertal
Germany

Tel.: +49 2 02 4791-0
Fax: +49 2 02 4791-355
export@stahlwille.de
www.stahlwille.de