

CATALOGUE 2020/2021

Professional tool solutions for aerospace












A DEMANDING INDUSTRY DESERVES UNCOMPROMISING TOOLS.

For over 150 years, the name STAHLWILLE has been a byword for innovative premium handtools that are »Made in Germany«. With its intelligent torque technology and tool systems, high-grade tightening tools and individual solutions for tool storage in a modern design, STAHLWILLE continues to redefine standards – including in the aerospace industry, where STAHLWILLE is recognised as being a leading partner.

All over the world, customers involved in the production and maintenance of aeroplanes and helicopters rely on the solutions and expertise provided by this company which is firmly established on its traditional base.

Demanding industries deserve uncompromising tool solutions.

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STAHLWILLE DAPTIQ®.

ENABLING THE NETWORKED DIMENSION OF HANDTOOLS.

Wherever professional tool solutions are used, computerisation and automation also play a pioneering role. Industry 4.0 is on everyone's lips - and those who computerise their processes will benefit from increased efficiency and transparency as well as higher process capability.

This is why STAHLWILLE is already leading the field today with a range of products that can be interconnected and networked and that open the door to a new future. Discover DAPTIQ® and its many applications: WORK, CHECK and STORE.

 DAPTIQ®



Solutions for the production environment.

The WORK application area includes tools that interact smoothly with the production planning and control system (PPC). The PPC can transmit messages to the MANOSKOP® display, read out data and adjust settings.



CHECK

The easy way to schedule test equipment planning.

The products developed for the CHECK application area communicate with IMTE management and CAQ. The superordinate system has access to all the test data all the time. The user is not required to do anything – all the data and logs of the calibration process are securely transmitted.




STORE

Inventory control and more.

STORE stands for the storage solutions of the future: even the most extensive tool sets can be checked for completeness within a few seconds. All the data is immediately available in the ERP system.



SOPHISTICATED – DOWN TO THE LAST DETAIL. OUR HIGHLIGHTS AT A GLANCE.

The name STAHLWILLE has always stood for tools that go well beyond the standard solution. The commitment has always been to deliver that additional decisive detail, greater accuracy, better thought-out and technologically more advanced products. Our customers know this worldwide, across all industries.



Flexible rod principle

Mechanical torque wrenches from STAHLWILLE have a wear-resistant trigger system with a flexible rod. In contrast to conventional torque wrenches with spiral springs, the STAHLWILLE system eliminates one key work step: once the fastener has been tightened, it is not necessary to reset the wrench to »0«.



More detailed information on the flexible rod system can be found at
www.stahlwille.de/videos/flexible-rod-system

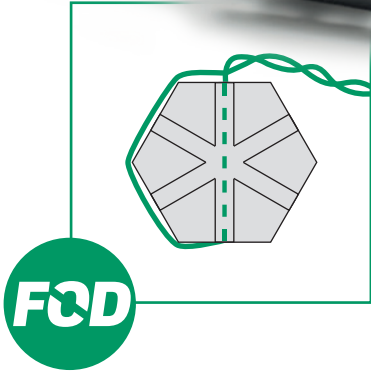


Electromechanical triggering

The best of both worlds: electromechanical torque wrenches from STAHLWILLE combine the uncompromising accuracy of an electronic torque tool with the comforting tactile feedback of a mechanical trigger mechanism.



More detailed information on the electromechanical trigger mechanism can be found at
www.stahlwille.de/videos/em-click-trigger



Wire-twisting pliers

In aviation particularly, safety-relevant bolted joints are additionally fixed with a twisted safety locking wire which protects against unintentional loosening due to strong vibrations. STAHLWILLE reinvented wire-twisting pliers to enable particularly safe wire twisting. STAHLWILLE wire-twisting pliers are equipped with a thicker, more rigid shank than competing products. The handles are arrested by a durable leaf spring rather than a highly susceptible coil spring.

HI-LOK TOOLS

HI-LOK pins have become extremely popular in aerospace construction - they make it possible to achieve reliable structural joints even in safety-critical, confined work environments. This is exactly where the compact and patented HI-LOK ratchet from STAHLWILLE comes in. Additional benefits for you: Unlike HI-LOK ratchets from other manufacturers, the STAHLWILLE tools offer the highest possible protection against foreign object damage (FOD).



Connector pliers

STAHLWILLE's connector pliers should be a permanent feature of every tool set. The four-way adjustable sliding joint and the infinitely variable quick adjustment mechanism guarantee optimum ergonomics, the exchangeable plastic jaws ensure strain-free working on light alloy parts and screw plugs such as Cannon connectors. Ideal for aircraft manufacture and aircraft MRO.



Fine tooth ratchet mechanisms

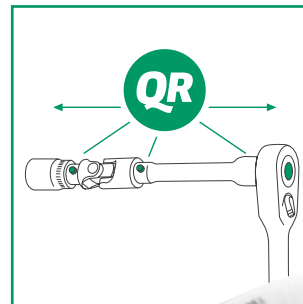
STAHLWILLE fine tooth ratchets have a specially developed, perfectly balanced mechanism with 80 teeth, ensuring maximum load capacity and, at the same time, excellent durability. With STAHLWILLE fine-tooth ratchets, no less than eight teeth engage at once, which provides smooth working action. The tight ratchet angle of only 4.5° enables efficient working in confined spaces



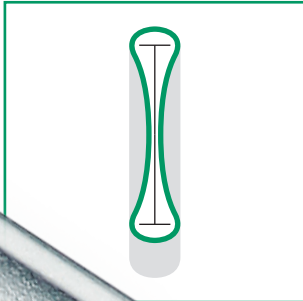
More detailed information on the mechanics of our fine-tooth ratchets can be found at www.stahlwille.de/videos/fine-tooth-ratchets

QuickRelease

STAHLWILLE QuickRelease is the only locking system on the market that locks every single item in the tool chain - from the ratchet, the cross handle or the crank to the extension, universal joint and the socket insert - without taking up more space than a tool without a safety system. In this way, QuickRelease prevents unintentional loss of tools from the ratchet through to the bolting point and ensures maximum safety - even in the tightest of spaces.



FOD prevention The screwless tool design protects against foreign object damage (FOD) and provides greater safety for bolted joints, especially in sensitive areas such as aviation.



Double T-profile

The double T-profile used for the STAHLWILLE open-jaw and ring spanners saves material where it is not needed and guarantees two things at once: peak dimensional stability and extremely low weight, whichever spanner size you pick up. As a result, tool-kits from STAHLWILLE weigh considerably less. But that is not all: the double T-profile from STAHLWILLE fits snugly in the hand, allows fatigue-free working and can be gripped comfortably and safely. This also increases user safety.

AS-Drive and HPQ

STAHlwILLE spanners and sockets have the sophisticated AS-Drive profile. Thanks to this profile, the forces applied are transferred ideally to the flats of nuts & bolts. This allows even large forces to be applied without causing damage to the bolt and nut. STAHLWILLE HPQ® socket provide the same reliability. Since they are made of tough, high-grade steel, they have extremely thin walls and are nevertheless extremely resilient.





1 FACTORY AND WORKSHOP EQUIPMENT, SETS OF TOOLS

Tool trolleys, workbenches and accessories

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CONVERTA and accessories

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Tool boxes, tool cases and accessories

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Sets of tools

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The right solution for every professional. **STAHLWILLE tool trolleys.**

1



STAHLWILLE's »Made in Germany« tool trolleys feature state-of-the-art design, a high standard of safety and many sophisticated details. Four models are available - and with them, numerous opportunities for personalising the trolleys in a way that leaves nothing to be desired.



RESILIENT.

Particularly high static load capacity of up to 750 kg (95, 95VA) or 1,400 kg (98VA).

VERSATILE.

Six, seven or eight drawers? White, anthracite grey, green, red or blue? Models 95, 95VA and 98VA leave nothing to be desired.



SOPHISTICATED.

All the drawers can be fully extended. Use of STAHLWILLE's standard TCS inlays or the variable drawer dividers ensures a clear overview and easy tool removal.



SAFE.

The three-stage locking system prevents toppling, stops drawers opening inadvertently in transit and makes them tamper-proof (95, 95VA and 98VA).



Comparison of features	90	95	95VA	98VA
Drawers	6	6 / 7 / 8	6 / 7 / 8	6 / 7 / 8
Inside dimension	530 x 350 mm	530 x 350 mm	530 x 350 mm	700 x 530 mm
Tray	Plastic	Plastic	Stainless steel	Stainless steel
Colours	Anthracite grey	White, anthracite grey, green, red, blue	White, anthracite grey, green, red, blue	White, anthracite grey, green, red, blue
Safety concept	2-stage	3-stage	3-stage	3-stage
Wheels	∅ 100 mm	∅ 125 mm	∅ 125 mm	∅ 125 mm, ball-bearing mounted
Parking brake	1	2	2	2
Drawer extension	100 %	100 %	100 %	100 %
Drawer load max.	25 kg	30 kg	30 kg	40 kg
Load pick-up	300 kg	750 kg	750 kg	1.400 kg



GENTLE.

All-round damping protectors guard the trolley and its contents against impact damage (95, 95VA and 98VA).

MOBILE.

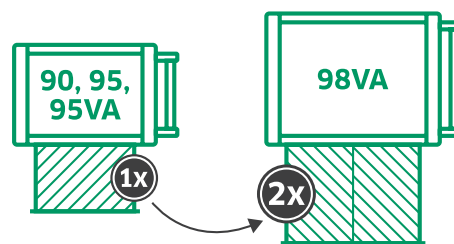
The special carpet protection features protect the bearings of the oil and acid resistant wheels (95, 95VA and 98VA).

PRACTICAL.

Maximum manoeuvrability thanks to highly elastic wheels (95, 95VA and 98VA).

ROBUST.

Sturdy construction using high-grade materials to ensure durability.



LOTS MORE.

In comparison with models 90, 95 and 95VA, this model offers 100% more drawer volume.



Detailed information in our video:
www.stahlwille.de/videos/werkstattwagen

1

Ready for anything. WB620 Mobile Workbench.



STAHLWILLE's Mobile Workbench WB620 – state-of-the-art, sturdy and versatile, based on the highly successful Tool Trolley 95VA. The working height of 103 cm is ideal for professional work, the worktop is generously dimensioned and the unit is equipped with seven fully extendible drawers. The three-stage safety concept protects against unauthorised removal of tools and prevents toppling since only one drawer can be opened at any time.

HIGH-GRADE.

The sturdy construction, multiplex worktop (115 x 50 cm) and such sophisticated features as the protective base strip made of stainless steel ensure the legendary »made in Germany« durability that STAHLWILLE is famous for.

ERGONOMICALLY REFINED.

Strain-free working thanks to the 103-cm-high worktop.



SAFE.

Central locking with a recessed lateral cylinder lock. Together with the fold-down key, this reduces injuries and damage. Individual locks prevent inadvertent opening in transit.



AMPLE SPACE.

Seven drawers and the spacious cabinet section provide plenty of storage space. Particularly convenient: the shelves in the cabinet section are adjustable in 5-cm steps. Additional shelves available on request.



RESILIENT.

The robust construction allows a drawer load of up to 30 kg.

Tool trolley 90

- two-stage safety logic:
 - central locking with a cylinder lock and fold-down key
 - individual locks prevent inadvertent opening in transit
- sturdy push-bar
- particularly tough, oil and skydrol resistant worktop made of ABS with compartments for small components
- oil and acid resistant wheels (\varnothing 100 mm) with carpet protection to prevent ingress of dirt and fibres into bearings, with one parking brake
- can be enhanced with STAHLWILLE standard and TCS inlays (see page 46–79)

90/6A Tool trolley

- 6 locking, easily removable drawers mounted in full-extension runners



Code	colour	\varnothing kg
81 20 0000		charcoal grey, RAL 7016
		56.5

SCH 90 Drawers



Code	size	dimensions mm	for No	\varnothing kg
81 49 00 80	80SI	530 x 350 x 80	90/6A	3.1
81 49 01 20	120SI	530 x 350 x 120	90/6A	3.6
81 49 01 65	165SI	530 x 350 x 165	90/6A	4.5

R 90 Set of wheels

- set consists of 2 fixed wheels and 2 pivoting, 100 mm \varnothing
- 1 wheel with locking brake



Code	for No	\varnothing kg
81 49 00 00	90/6A	2.8

910 Non-slip mat GRIPMAT

- protects the tools
- prevents them sliding and rattling



Code	Length mm	Width mm	\varnothing g
89 01 00 03	3800	370	680

Tool Trolley No 90.

Simple. Impressive.



100% **Sophisticated.**
Six arrestable, easily removable drawers mounted in full-extension runners.

(P) **Safe.**
Oil and acid resistant castors (\varnothing 100 mm) with one parking brake.

🔒 **Doubly secure.**
Central locking with a cylinder lock and fold-down key. Individual locks prevent inadvertent opening in transit.

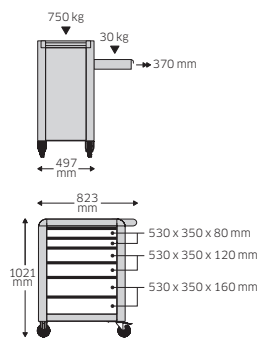
Tool trolley 95

- three-stage safety logic:
 - central locking with a cylinder lock and fold-down key
 - individual locks prevent inadvertent opening in transit
 - topple-proof - it is not possible to pull out more than one drawer at a time
- stainless steel handle with reinforced connection to body
- impact protection strips with wrap-around bumper
- particularly tough, oil and skydrol resistant worktop made of ABS with compartments for small components
- oil and acid resistant low-friction wheels (∅ 125 mm) with carpet protection to prevent ingress of dirt and fibres into bearings, with two parking brakes
- paper-roll holder
- 5 standard colour shades, drawers in two colours (silver with black full-width handle)
- perforations from both sides for hooks
No 8031-8041, e.g. for larger tools
- can be enhanced with STAHLWILLE standard and TCS inlays (see page 46-79)

1

95/6 Tool trolleys TTS

- 6 easily removable drawers mounted in full extension rails with bearing cage guidance (fully extendible roller-mounted runners as an option)



Code	No	colour	∆	kg
81 2000 10	95/6G	STAHLWILLE green	69	
81 2000 11	95/6R	red, RAL 3020	69	
81 2000 12	95/6B	blue, RAL 2703035	69	
81 2000 13	95/6A	charcoal grey, RAL 7016	69	
81 2000 14	95/6W	white, RAL 9010	69	

913/4 ABS Cover

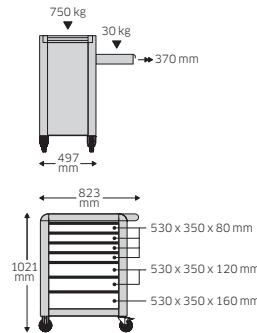
- oil and skydrol resistant



Code	for No	dimensions mm	∆	g
81 490004	95	565 x 490 x 23	965	

95/7 Tool trolleys TTS

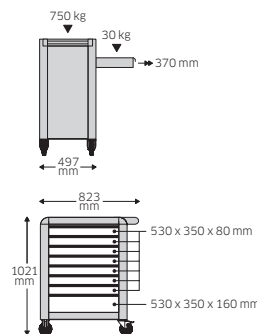
- 7 easily removable drawers mounted in full extension rails with bearing cage guidance (fully extendible roller-mounted runners as an option)



Code	No	colour	∆	kg
81 2000 15	95/7G	STAHLWILLE green	72	
81 2000 16	95/7R	red, RAL 3020	72	
81 2000 17	95/7B	blue, RAL 2703035	72	
81 2000 18	95/7A	charcoal grey, RAL 7016	72	
81 2000 19	95/7W	white, RAL 9010	72	

95/8 Tool trolleys TTS

- 8 easily removable drawers mounted in full extension rails with bearing cage guidance (fully extendible roller-mounted runners as an option)



Code	No	colour	∆	kg
81 2000 20	95/8G	STAHLWILLE green	75	
81 2000 21	95/8R	red, RAL 3020	75	
81 2000 22	95/8B	blue, RAL 2703035	75	
81 2000 23	95/8A	charcoal grey, RAL 7016	75	
81 2000 24	95/8W	white, RAL 9010	75	

R 95 Set of wheels

- set consists of 2 fixed low-friction wheels and 2 pivoting, 125 mm ∅
- 2 wheels with locking brake



Code	for No	∆	kg
81 490001	WB620; 95; 95VA	3.9	

Tool trolley 95VA

- three-stage safety logic:
 - central locking with a cylinder lock and fold-down key
 - individual locks prevent inadvertent opening in transit
 - topple-proof - it is not possible to pull out more than one drawer at a time
- drawers can be identified with multiple stickers per drawer (sheet of stickers included in delivery)
- stainless steel handle with reinforced connection to body
- impact protection strips with wrap-around bumper
- wear and scratch-resistant worktop and ribbed protective base strip in stainless steel
- oil and acid resistant low-friction wheels (Ø 125 mm) with carpet protection to prevent ingress of dirt and fibres into bearings, with two parking brakes
- paper-roll holder
- 5 standard colour shades, drawers in two colours (silver with black full-width handle)
- perforations from both sides for hooks No 8031-8041, e.g. for larger tools
- can be enhanced with STAHLWILLE standard and TCS inlays (see page 46-79)

95VA/6 Tool trolleys TTS

- 6 easily removable drawers mounted in full extension rails with bearing cage guidance (fully extendible roller-mounted runners as an option)



Code	No	colour	kg
81 200055	95VA/6G	STAHLWILLE green	73.5
81 200056	95VA/6R	red, RAL 3020	73.5
81 200057	95VA/6B	blue, RAL 2703035	73.5
81 200058	95VA/6A	charcoal grey, RAL 7016	73.5
81 200059	95VA/6W	white, RAL 9010	73.5

95VA/7 Tool trolleys TTS

- 7 easily removable drawers mounted in full extension rails with bearing cage guidance (fully extendible roller-mounted runners as an option)



Code	No	colour	kg
81 200060	95VA/7G	STAHLWILLE green	75.5
81 200061	95VA/7R	red, RAL 3020	75.5
81 200062	95VA/7B	blue, RAL 2703035	75.5
81 200063	95VA/7A	charcoal grey, RAL 7016	75.5
81 200064	95VA/7W	white, RAL 9010	75.5

95VA/8 Tool trolleys TTS

- 8 easily removable drawers mounted in full extension rails with bearing cage guidance (fully extendible roller-mounted runners as an option)



Code	No	colour	kg
81 200065	95VA/8G	STAHLWILLE green	78
81 200066	95VA/8R	red, RAL 3020	78
81 200067	95VA/8B	blue, RAL 2703035	78
81 200068	95VA/8A	charcoal grey, RAL 7016	78
81 200069	95VA/8W	white, RAL 9010	78

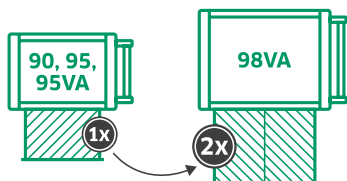
SCH 95VA Drawers



Code	size	dimensions mm	for No	kg
81 49 3080	80SI	530 x 350 x 80	95VA/6; 95VA/7; 95VA/8	2.8
81 49 3120	120SI	530 x 350 x 120	95VA/6; 95VA/7	3.3
81 49 3160	160SI	530 x 350 x 160	95VA/6; 95VA/7; 95VA/8	3.9

Tool trolley 98VA

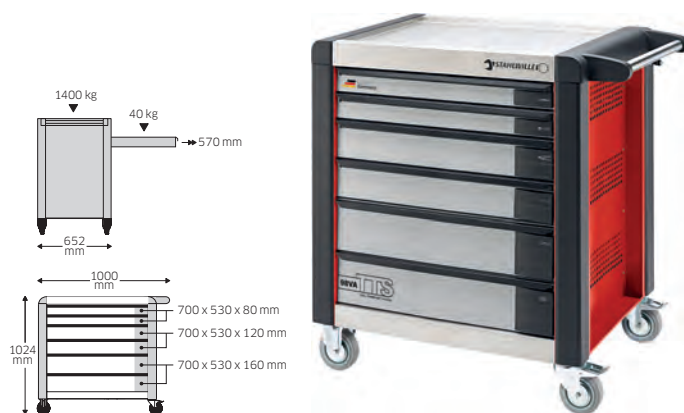
- in comparison with the 90, 95 and 95VA models, this model offers 100% more drawer volume



- three-stage safety logic:
 - central locking with a cylinder lock and fold-down key
 - individual locks prevent inadvertent opening in transit
 - topple-proof - it is not possible to pull out more than one drawer at a time
- drawers can be identified with multiple stickers per drawer (sheet of stickers included in delivery)
- stainless steel handle with reinforced connection to body
- impact protection strips with wrap-around bumper
- wear and scratch-resistant worktop and ribbed protective base strip in stainless steel
- oil and acid resistant ball-bearing mounted low-friction wheels (\varnothing 125 mm) with carpet protection to prevent ingress of dirt and fibres into bearings, with two parking brakes
- paper-roll holder
- 5 standard colour shades, drawers in two colours (silver with black full-width handle)
- perforations from both sides for hooks No 8031-8041, e.g. for larger tools
- can be enhanced with STAHLWILLE standard and TCS inlays (see page 46-79)

98VA/6 Tool trolleys TTS

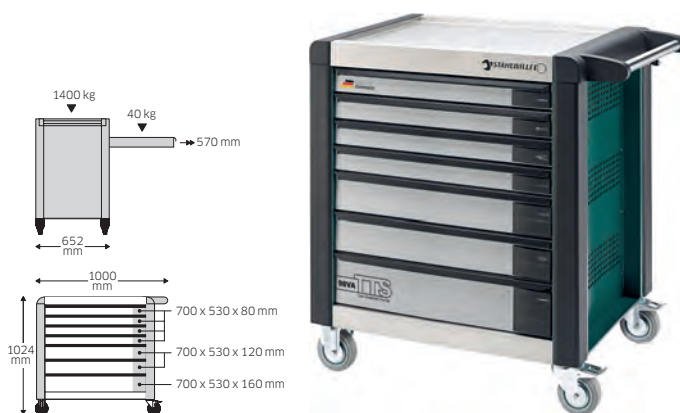
- 6 easily removable drawers mounted in full extension rails with bearing cage guidance



Code	No	colour		\varnothing kg
81200099	98VA/6G	STAHlwILLE green		98
81200100	98VA/6R	red, RAL 3020		98
81200101	98VA/6B	blue, RAL 2703035		98
81200102	98VA/6A	charcoal grey, RAL 7016		98
81200103	98VA/6W	white, RAL 9010		98

98VA/7 Tool trolleys TTS

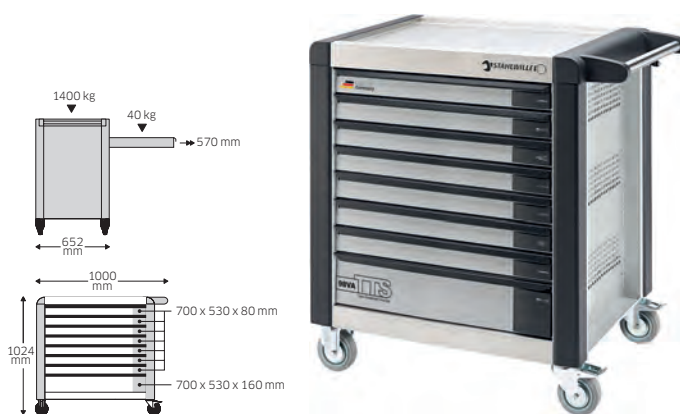
- 7 easily removable drawers mounted in full extension rails with bearing cage guidance



Code	No	colour		\varnothing kg
81200104	98VA/7G	STAHlwILLE green		100
81200105	98VA/7R	red, RAL 3020		100
81200106	98VA/7B	blue, RAL 2703035		100
81200107	98VA/7A	charcoal grey, RAL 7016		100
81200108	98VA/7W	white, RAL 9010		100

98VA/8 Tool trolleys TTS

- 8 easily removable drawers mounted in full extension rails with bearing cage guidance



Code	No	colour		\varnothing kg
81200109	98VA/8G	STAHlwILLE green		102
81200110	98VA/8R	red, RAL 3020		102
81200111	98VA/8B	blue, RAL 2703035		102
81200112	98VA/8A	charcoal grey, RAL 7016		102
81200113	98VA/8W	white, RAL 9010		102

SDH 98 Spray-can holder

- for 6 spray-cans (max. \varnothing 67 mm) and 7 screwdrivers



Code	for No	\varnothing kg
89010049	98VA	1.9

R 98 Set of wheels

- set consists of 2 fixed and 2 pivoting ball-bearing mounted low-friction wheels, \varnothing 125 mm
- 2 wheels with locking brake



Code	for No	Δ kg
81490005	WB620, 95, 95VA, 98VA	4.5

SCH 98VA Drawers



Code	size	dimensions mm	for No	Δ kg
81492080	80SI	700 x 530 x 80	98VA/6; 98VA/7; 98VA/8	4.4
81492120	120SI	700 x 530 x 120	98VA/6; 98VA/7	5
81492160	160SI	700 x 530 x 160	98VA/6; 98VA/7; 98VA/8	6

AB 98 Rubbish bin

- capacity approx. 14 l



Code	dimensions mm	for No	Δ kg
89010053	456 x 150 x 370	98VA	3.5

913/95, 913/98 Multiplex beechwood worktop



Code	No	for No	dimensions mm	Δ kg
89010031	913/95	95VA	563 x 415 x 15	2.8
89010032	913/98	98VA	741 x 570 x 15	4.8

KH 91 Cable holder

- for storing cable and hoses



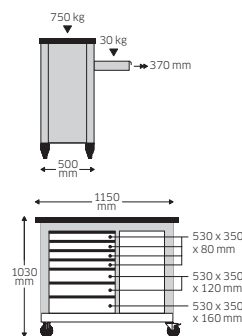
Code	for No	dimensions mm	Δ kg
89010040	WB620; 95; 95VA; 98VA	200 x 153 x 170	0.9

Mobile workbench WB620

- three-stage safety logic:
 - central locking with a cylinder lock and fold-down key
 - individual locks prevent inadvertent opening in transit
 - topple-proof - it is not possible to pull out more than one drawer at a time
- large worktop with multiplex beechwood worktop, 1150 x 500 mm
- ribbed protective base strip made of stainless steel
- oil and acid resistant wheels (\varnothing 125 mm) with carpet protection to prevent ingress of dirt and fibres into bearings, with two parking brakes
- roomy storage area with an adjustable shelf in the cabinet (perforations 50 mm)
- paper-roll holder
- lateral lockable cabinet door with magnetic closure
- perforations from both sides for hooks No 8031-8041, e.g. for larger tools
- drawers and cabinet part have the same locking mechanism
- can be combined with accessories range for Tool Trolley 95
- can be enhanced with STAHLWILLE standard and TCS inlays (see page 46-79)

WB620 Mobile workbench

- 7 easily removable drawers mounted in full extension rails with bearing cage guidance



Code	colour	Δ kg
85010620	charcoal grey, RAL 7016	87

WB620 FB Compartment shelf

- additional shelf for mobile workbench WB620



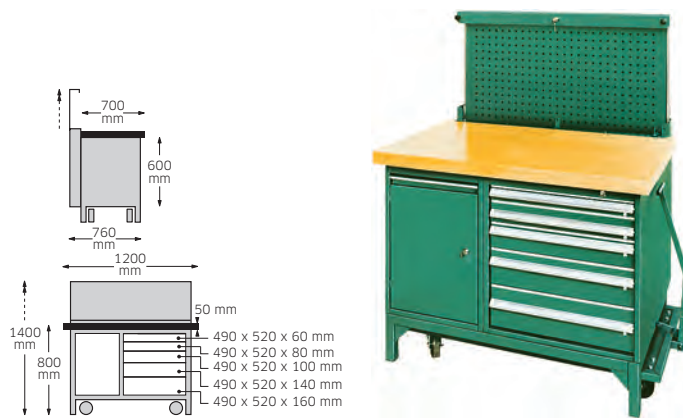
Code	colour	dimensions mm	Δ kg
85110620	silver, RAL 9006	452 x 394 x 8	1.3

Mobile workbench 96/3

- with chassis and retractable tool panel
- aluminium handle
- automatic catches on all drawers prevent them opening in transit
- lockup cabinet with height-adjustable shelf
- worktop is 50 mm thick, warp- and water resistant, multilayer bonded beech wood with clear varnish finish
- front edge has hardwood edging strip

96/3 Mobile workbench

- 5 ball-bearing mounted steel drawers with slotted liners for partitioning drawers



Code	for No	dimensions mm	for No	weight kg
85030003		490 x 520 x 60 mm 490 x 520 x 80 mm 490 x 520 x 100 mm 490 x 520 x 140 mm 490 x 520 x 160 mm		166.5

SDH 95 Spray-can holder

- for 4 spray-cans (max. \varnothing 67 mm) and 5 screwdrivers



Code	for No	dimensions mm	for No	weight kg
81490003	WB620; 95; 95VA			1.4

AB 95 Rubbish bin

- capacity approx. 9 l



Code	for No	dimensions mm	for No	weight kg
89010052	WB620; 95; 95VA	302 x 133 x 320		2

R 95/98S Set of wheels, with directional locks

- 4 ball-bearing mounted, smooth-running swivelling wheels (\varnothing 125 mm)
- 2 with parking brakes, 2 with directional locks



Code	for No	dimensions mm	for No	weight kg
89480003	WB620; 95; 95VA; 98VA			5.4

SCH 95 Drawers



Code	size	dimensions mm	for No	weight kg
81491080	80SI	530 x 350 x 80	WB620; 95/6; 95/7; 95/8	2.7
81491120	120SI	530 x 350 x 120	WB620; 95/6; 95/7	3.3
81491160	160SI	530 x 350 x 160	WB620; 95/6; 95/7; 95/8	3.4

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	dimensions mm	for No	weight g
83812070	WB620; 95; 95VA; 98; 920; 922N	520 x 340 x 30		330

VE 50-150 Drawer separators

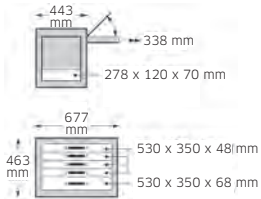
- allow you to divide up the drawer the way you need it
- consisting of: one each galvanised steel front and back piece and three separators



Code	for No	dimensions mm	for No	weight kg
81484001	WB620; 90; 95; 95VA; 98VA; 920; 922N	530 x 350 x 40		0.8

920 Magazine case CONVERTA

- 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
- the magazines can be replaced with standard drawers
- 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; 922N; R 920	53.6

R 920 Set of wheels

- set consists of 2 fixed wheels and 2 pivoting, \varnothing 125 mm
- 2 wheels with locking brake



Code	for No	⊗ kg
89480001	920; 922N	4.3

920 C Tool magazines

- coated with environmentally friendly silver-coloured textured powder-coat
- for use with magazine drawers No 920 C-SCH



Code	No	dimensions mm	for No	⊗ kg
81481060	920 C 60	530 x 350 x 48	920; 922N	3.7
81481080	920 C 80	530 x 350 x 68	920; 922N	3.3

920 C-SCH Magazine drawer

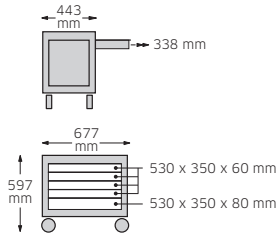
- coated with environmentally friendly silver-coloured textured powder-coat
- for mounting tool magazines No 920 C



Code	dimensions mm	for No	⊗ kg
81481000	350 x 530	920 C	2.6

922N Wheely box with drawers CONVERTA

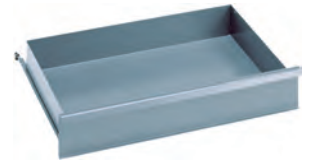
- with 4 wheels \varnothing 125 mm (2 pivoting castors, one wheel with parking brake)
- with 5 silver-coloured drawers
- drawers are removable and lockable in fully extended position
- the worktop of the case is fitted with an oil and skydrol resistant plastic mat with compartments for small components
- spray can holders No SDH 921 can be retrofitted to the sides (please order separately)



Code	Colour	Can be combined with No	⊗ kg
96480002	red, RAL 3020	920	39.5

SCH 60-80 Drawers

- coated with environmentally friendly silver-coloured textured powder-coat



Code	No	dimensions mm	Can be combined with No	⊗ kg
81482060	SCH 60	530 x 350 x 60	922N	2.4
81482080	SCH 80	530 x 350 x 80	920; 922N	2.8

913 Cover

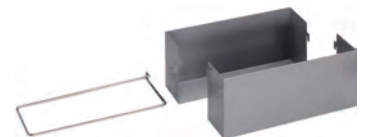
- oil and skydrol resistant



Code	for No	dimensions mm	⊗ g
89010011	920; 922N	680 x 450 x 20	936

SDH 921 Spray can and paper roll holder

- coated with environmentally friendly silver-coloured textured powder-coat



Code	for No	⊗ kg
81483001	920; 922N	1.4

Accessories Tool Trolley, Tool Box and Mobile Workbench

1

	No 90/6A	No 95/6	No 95/7	No 95/8	No 95VA/6	No 95VA/7	No 95VA/8	No 98VA/6	No 98VA/7	No 98VA/8	No 920	No 922N	No WB620
Drawers													
	SCH 90-80SI	•											
	SCH 90-120SI	•											
	SCH 90-165SI	•											
	SCH 95-80SI		•	•	•								•
	SCH 95-120SI		•	•									•
	SCH 95-160SI		•	•	•								•
	SCH 95VA-80SI				•	•	•						
	SCH 95VA-120SI				•	•							
	SCH 95VA-160SI				•	•	•						
	SCH 98VA-80SI							•	•	•			
	SCH 98VA-120SI							•	•				
	SCH 98VA-160SI							•	•	•			
	SCH 60										•	•	
	SCH 80										•	•	
Drawers separators													
	VE 50-150	•	•	•	•	•	•	•	•	•	•	•	•
Magazine drawer													
	920C-SCH										•	•	
Tool magazines													
	920 C 60										•	•	
	920 C 80										•	•	
	920 C 120												
Empty tray for small components													
	912		•	•	•	•	•	•	•	•	•	•	•
Worktops													
	913										•	•	
	913/4		•	•	•								
Wooden worktops													
	913/95				•	•	•						
	913/98							•	•	•			
Compartment shelf													
	WB620 FB												•
Cable holder													
	KH 91		•	•	•	•	•	•	•	•			•
Spray can holders													
	SDH 95		•	•	•	•	•						•
	SDH 98							•	•	•			
	SDH 921										•	•	
Rubbish bins													
	AB 95		•	•	•	•	•						•
	AB 98							•	•	•			
Sets of wheels													
	R90	•											
	R95		•	•	•	•	•						•
	R98		•	•	•	•	•	•	•	•			•
	R95/98S		•	•	•	•	•	•	•	•			•
	R920										•	•	

Tool boxes

13217 Tool trolleys

- extremely sturdy, tool trolley resilient to loads and made of polypropylene for professional use
- 5 easily removed lockable drawers with transparent covers, with endstops for the extendible rails, 3 different drawer heights
- drawers can be inserted in any order
- with one top cover and one front cover, both folding
- the top cover is fitted with napped foam to hold tools firmly in place
- one removable tray with 2 handles and 2 transparent drawer covers under the top cover
- drawers can be used as separate tool boxes using the transparent cover
- tool case and drawers can be individually marked
- 2 smooth-running twin castors on the telescopic-handle side
- adaptable for vertical transport using 4 castors, R 13217 set of castors (please order separately)

- extendible telescopic handle facilitates transport
- 2 carrying handles at the sides
- resistant to skydrol, acetone, petrol and hydraulic fluids
- carrying capacity 60 kg
- 3 locking positions with padlock
- also available as IP67 version (6 drawers, 4 x 30 mm, 2 x 60 mm)**
- additional catches and seals protect against water and dust. Special valve for pressure relief**
- also available with all-round high-visibility reflecting surface (5 drawers, 2 x 30 mm, 3 x 60 mm), for increased safety when working in dark surroundings**
- individually tailored cases are available on request**



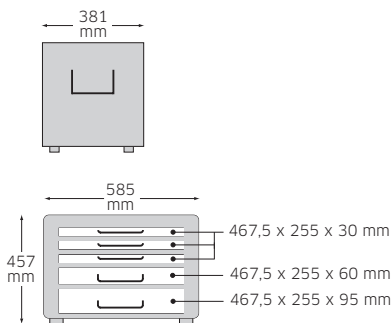
13217 TS IP67



13217 TS RF



Delivery without tools



Code	No	colour	Δ
			kg
81091301	13217 LGE	luminous yellow	15.6
81091304	13217 LR	luminous red	15.6
81091306	13217 TS	jet black	15.6
81091322	13217 TS IP67	jet black	15.6
96894809	13217 TS RF	jet black (with reflecting film)	15.6

Factory and workshop equipment, sets of tools

1

R 13217 Set of wheels

- optional
- extra castors allowing upright travel on four wheels
- 4 swivelling castors, 2 of which with parking brakes



Code	for No	Δ ▽ kg
96894805	13217	0.7

13217 TA Transparent cover

- the cover is fitted to the top lid and provides additional storage space, e.g. for documents
- delivery includes fixing materials



Code	for No	Δ ▽ kg
89010100	13217	0.6

TR-SCH Drawers

- for tool trolley No 13217
- black



Code	size	dimensions mm	Δ ▽ kg
81483230	30 SC	467.5 x 255 x 30	0.6
81483260	60 SC	467.5 x 255 x 60	0.9
81483295	95 SC	467.5 x 255 x 95	1

TCS inlays for tool trolley No 13217

TCS WT 10a/9

- for the drawers of tool trolley No 13217
- 460 x 250 x 30 mm
- 9 pieces



Code	Δ ▽ g
96830124	1600

No	Content
10a	1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16; 19/32 x 11/16; 5/8 x 3/4; 3/4 x 7/8; 25/32 x 13/16; 15/16 x 1; 1 1/8 x 1 5/16"

TCS WT 13a/22

- for the drawers of tool trolley No 13217
- 460 x 250 x 60 mm
- 22 pieces



Code	Δ ▽ g
96830125	2440

No	Content
13a	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"

TCS WT 240/10

- for the drawers of tool trolley No 13217
- 460 x 250 x 30 mm
- 10 pieces



Code	Δ ▽ g
96830130	2005

No	Content
240	8; 10; 11; 12; 13; 14; 16; 17; 18; 19 mm

Tool Control System.
Safety-conscious inlays.

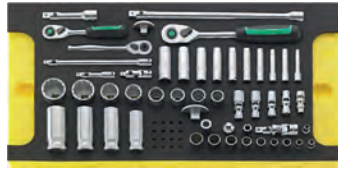


Designed to fit our Tool Trolleys and Tool Boxes.
With yellow signal cut-outs to show whether all the tools are in their places.

TCS WT 40/45/46/37/14

TCS QR

- for the removable tray of tool trolley No 13217
- cannot be combined with transparent cover 13217 TA
- 455 x 240 x 30 mm
- 51 pieces



Code △△
g

96830123 2500

No	Content
40aD	1/4" ○ 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
40aDL	1/4" ○ 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
402a	1/4" ○ 1/4; 5/16; 3/8; 7/16; 1/2"
405QR/2	1/4" ■ ○ 54 mm
405QR/6	1/4" ■ ○ 150 mm
407QR	1/4" ■ ○ 38 mm
409M	3/8" ■ 1/4" ○
415QR N	1/4" ■
415SGB N	1/4" ○
45a	3/8" ○ 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 15/16; 1"
46a	3/8" ○ 5/8; 11/16; 3/4; 7/8"
412	1/4" ○ ○
427QR/3	3/8" ■ ○ 76 mm
427QR/10	3/8" ■ ○ 240 mm
428QR	3/8" ■ ○ 46 mm
431	1/4" ■ 3/8" ○
432M	1/2" ■ 3/8" ○
435QR N	3/8" ■
443	5/16" ○ 3/8" ○

TCS WT 4622-4650-1

TCS

- for the drawers of tool trolley No 13217
- 460 x 250 x 60 mm
- 24 pieces



Code △△
g

96830126 1610

No	Content
4622SK	size 1 (0.8 x 4.0 x 90 mm) size 2 (1.0 x 5.5 x 100 mm) size 3 (1.2 x 6.5 x 125 mm)
4632SK	PH1; PH2; PH3
4650	sizes T10; T15; T20; T25; T30
10767a/13	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"

TCS WT 4650-4665

TCS

- for the drawers of tool trolley No 13217
- 460 x 250 x 60 mm
- 24 pieces



Code △△
g

96830127 1400

No	Content
4650	sizes T10; T15; T20; T25; T30
4660 VDE	size 1 (0.4 x 2.5 x 75 mm) size 3 (0.6 x 3.5 x 100 mm) size 5 (1.0 x 5.5 x 125 mm)
4665 VDE	PH1; PH2; PH3
10767a/13	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"

Factory and workshop equipment, sets of tools

1

TCS WT 6501-6602/7



- for the drawers of tool trolley No 13217
- 460 x 250 x 30 mm
- 7 pieces



Code	g
96830118	1880

No		
65015180	180 mm	
65295200	200 mm	
65434002	J2 180 mm	
65454002	A2 180 mm	
65516240	240 mm	
65642250	250 mm	
66025160	160 mm	

TCS WT 6501-6602/7-1



- for the drawers of tool trolley No 13217
- 460 x 250 x 30 mm
- 7 pieces



Code	g
96830131	1655

No		
65015180	180 mm	
65295200	200 mm	
65434002	J2 180 mm	
65454002	A2 180 mm	
65516240	240 mm	
65751220	230 mm	
66025160	160 mm	

TCS WT 102-109/16



- for the drawers of tool trolley No 13217
- 460 x 250 x 30 mm
- 16 pieces



Code	g
96830119	1790

No	Content	
102	175 mm	
105	120 x 12 mm	
108	115 x 2; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm	
109	size 6; 100 x 3.4 mm	
10956	∅ 27 mm	
10961	300 g	
12320		
12921M	∅ 32 mm	
12935/3	3 m	
13110	300 mm	
13126-2		

13219 Tool bag



- with 23 compartments and 5 outside pockets
- robust carrying handle
- removable, padded shoulder strap for comfortable carrying
- cover with hook-and-loop fasteners protects the tools from dust, dirt and moisture
- sturdy, reinforced plastic base-bag
- made of waterproof polyester



Code	Width mm	Height mm	Depth mm	kg
81620004	500	340	220	2.3

13215 Backpack trolley



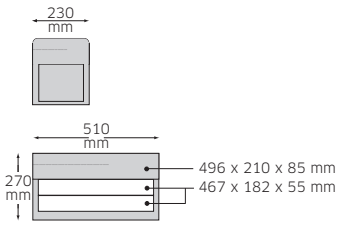
- robust tool backpack with reinforced base
- flexible use as trolley and backpack
- large, smooth-running castors and the telescopic handle ensure easy transport
- extendable, padded straps turn the trolley into a backpack
- two easily removable tool trays for the most important tools in everyday work
- front pockets for documents and accessories
- padded notebook compartment (up to 15")



Code	Width mm	Height mm	Depth mm	kg
81620007	360	440	200	4.3

13216/2 Tool box

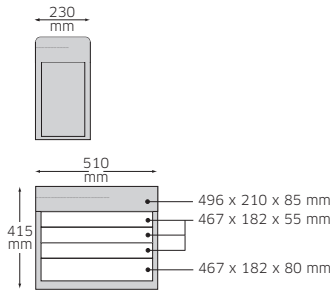
- with 2 drawers and one compartment under the lid, safety lock and dip-coated carrying handle on the lid
- wide, spring-mounted dip-coated carrying handles on the sides
- high-grade, fully extendible sturdy rails
- easily removable drawers
- the perforated panel can be arranged as required using spring loaded clips No 8050 (page 29, please order separately)



Code	⚖️ kg
81091002	10.3

13216/4 Tool box

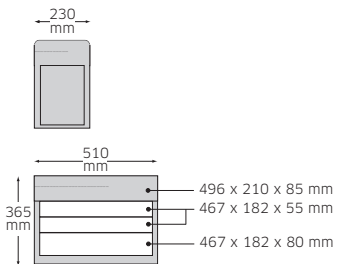
- with 4 drawers and one compartment under the lid, safety lock and sturdy textured aluminium sheeting on the lid
- wide, spring-mounted dip-coated carrying handles on the sides
- high-grade, fully extendible sturdy rails
- easily removable drawers
- the perforated panel can be arranged as required using spring loaded clips No 8050 (page 29, please order separately)



Code	⚖️ kg
81091004	14

13216/3 Tool box

- with 3 drawers and one compartment under the lid, safety lock and dip-coated carrying handle on the lid
- wide, spring-mounted dip-coated carrying handles on the sides
- high-grade, fully extendible sturdy rails
- easily removable drawers
- the perforated panel can be arranged as required using spring loaded clips No 8050 (page 29, please order separately)



Code	⚖️ kg
81091003	11

TBT13216 Tool box trolley

- for tool boxes No 13216/2, 13216/3, 13216/4
- safe tool box locking system with quick-release mechanism
- unrestricted access to all tool box functions
- sturdy steel-sheet construction
- 2 fixed wheels and 2 castors (∅ 75 mm) with parking brakes
- convenient, fold-away push-handle with endstop
- maximum static load capacity: 150 kg
- supplied without tool box



Code	Width mm	Height mm	Height (open) mm	Depth mm	⚖️ kg
81091009	570	216	914	328	7.5

83/010 Tool box, 3 trays

- lockable by padlock



Code	Width mm	Height mm	Depth mm	⚖️ kg
81060000	420	150	200	3.6

83/09 Tool box, 5 trays

- lockable by padlock



Code	Width mm	Height mm	Depth mm	⚖️ kg
81050000	420	200	200	4.7

Factory and workshop equipment, sets of tools

1

446/08 Tool box, 5 trays

- lockable by padlock



Code	Width mm	Height mm	Depth mm	⚖️ kg
81070000	530	200	200	5.6

82/013 Tool box

- with lift out tray
- lockable by padlock

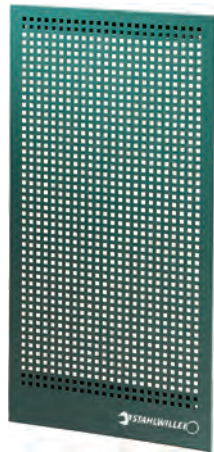


Code	Width mm	Height mm	Depth mm	⚖️ kg
81080000	545	225	180	6.9

Perforated panels, hooks and holding

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	Width mm	Height mm	Depth mm	⚖️ kg
80020001	500	1000	15	3.8

8031 Single hook

- for
- perforated panel No 8002
- mobile workbench No WB620
- tool trolleys No 95, 95VA, 98VA



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

8032 Twin hook

- for
- perforated panel No 8002
- mobile workbench No WB620
- tool trolleys No 95, 95VA, 98VA



Code	size	dimensions mm	⚖️ g
80320030	1	30	19
80320060	2	60	26

8034 Twin hook

- for
- perforated panel No 8002
- mobile workbench No WB620
- tool trolleys No 95, 95VA, 98VA



Code	size	dimensions mm	⚖️ g
80340040	1	40 x 35	30
80340050	2	50 x 40	30

8035 Square lug

- for
- perforated panel No 8002
- mobile workbench No WB620
- tool trolleys No 95, 95VA, 98VA



Code	size	dimensions mm	⚖️ g
80350017	1	17 x 35	23
80350020	2	20 x 55	26

8036 Spring clip

for

- perforated panel No 8002
- mobile workbench No WB620
- tool trolleys No 95, 95VA, 98VA



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

8038 Container

for

- perforated panel No 8002
- mobile workbench No WB620
- tool trolleys No 95, 95VA, 98VA



Code	dimensions mm	△▽ g
80380030	30 x 72	15

8041 Holding device for spanners

for

- perforated panel No 8002
- mobile workbench No WB620
- tool trolleys No 95, 95VA, 98VA



Code	dimensions mm	△▽ g
80410235	235 x 144 x 47	62

8050 Spring clip

for

- perforated panel No 8002
- mobile workbench No WB620
- tool trolleys No 95, 95VA, 98VA
- tool boxes No 13216/2, 13216/3, 13216/4



Code	size	dimensions mm	△▽ g
81485006	6	6	28
81485012	12	12	28

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	Width mm	Height mm	Depth mm	△▽ kg
81620002	460	310	160	4.5

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	Width mm	Height mm	Depth mm	△▽ kg
81620003	460	310	180	5.1

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



















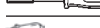



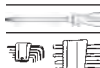









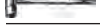


Code	Width mm	Height mm	Depth mm	△▽ kg
81620001	460	310	180	5.9









Factory and workshop equipment, sets of tools

Tool sets for aerospace industry

13200a Basic tool set for aircraft mechanics (piston engine)





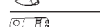
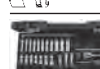


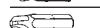

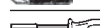









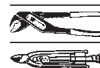












178 tools

Code	kg
978460 11	15.1
 12a/13	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"
 13a	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"
 230a	1/4 x 5/16, 5/16 x 11/32, 3/8 x 7/16, 7/16 x 1/2, 1/2 x 9/16, 9/16 x 5/8, 11/16 x 3/4, 13/16 x 7/8, 15/16 x 1"
 4025	size 4
 40aD/30/7QR	1/4" \bigcirc No 40a: 1/8" No 40aD: 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16" No 40aDL: 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16" No 402a: 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2" No 400QR; 405/2QR (2x); 405/6QR; 407QR; 412; 415 SG-QR
 409	3/8" \blacksquare 1/4" \bigcirc
 415SGB N	1/4" \bigcirc
 46a	3/8" \bigcirc 7/16, 1/2, 9/16, 5/8"
 427/18	3/8" \blacksquare \bigcirc 455 mm
 431	1/4" \blacksquare 3/8" \bigcirc
 45a/22/8QR	3/8" \bigcirc No 45a: 1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1" No 47a: 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4" No 427/10QR; 427/6QR; 427/3QR; 428QR; 435SG-QR; 442; 443; 453QR
 1220	PH0
 1221	PH1
 1222	PH2
 1223	PH3
 13010	sizes 0; 1; 2; 3; 4; 5; 6; 8; 10
 4006/1	1/4" \bigcirc
 12503	1/4" \bigcirc
 4622	size 1 (1.0 x 5.5 x 100 mm) size 3 (1.2 x 8.0 x 150 mm) size 4 (1.6 x 10.0 x 175 mm)
 4632	PH1; PH2; PH3
 10760aCV/13	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"
 65015180	180 mm
 65105190	190 mm
 65315170	170 mm
 65516240	240 mm
 65751280	280 mm
 66005180	180 mm
 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
 10670	215 mm
 10955	\varnothing 27 mm
 10961	300 g
 12320	
 12321	

 12600	500 g
 12900	
 12921N	\varnothing 50 mm
 12922E	\varnothing 6 mm
 12935/3	3 m
 13110	300 mm
 13126-1	
 13148	

13205a Standard aircraft maintenance tool set

131 tools

Code	kg
978460 12	7.8
 12a/13	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"
 13a	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"
 230a	5/16 x 11/32, 3/8 x 7/16, 7/16 x 1/2, 1/2 x 9/16, 9/16 x 5/8, 11/16 x 3/4"
 4025	size 4
 409	3/8" \blacksquare 1/4" \bigcirc
 40aD/30/7QR	1/4" \bigcirc No 40a: 1/8" No 40aD: 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16" No 40aDL: 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16" No 402a: 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2" No 400QR; 405/2QR (2x); 405/6QR; 407QR; 412; 415 SG-QR
 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
 1220-1223	PH0; PH1; PH2; PH3
 13008	sizes 0; 1; 2; 3; 4; 5
 13010	sizes 0; 1; 2; 3; 4; 5; 6; 8; 10
 4006/1	1/4" \bigcirc
 12503	1/4" \bigcirc
 4622	size 1 (1.0 x 5.5 x 100 mm) size 3 (1.2 x 8.0 x 150 mm) size 4 (1.6 x 10.0 x 175 mm)
 4632	PH1; PH2; PH3
 65015180	180 mm
 65105190	190 mm
 65315170	170 mm
 65516240	240 mm
 65751220	230 mm
 66005180	180 mm
 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
 10955	\varnothing 27 mm
 10961	300 g
 12025	210 mm
 12030	260 mm
 12035	210 mm
 12036	250 mm
 12053	
 12321	
 12900N	
 12921N	\varnothing 40 mm
 13110	300 mm
 13126-1	

13207a Electricians set in tool case No 13209

110 tools

Code		△ kg
98810322		12.5
13a	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"	
12a/13	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"	
40a	1/4" O ; 1/8"; 5/32"	
400QR	1/4" ■ 150 mm	
40aD/12/7QR	1/4" O No 40a: 1/8" No 40aD: 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16" No 400QR; 405/2QR (2x); 405/6QR; 407QR; 412; 415SG-QR	
4006/1	1/4" O	
4660 VDE	size 1 (0.4 x 2.5 x 75 mm) size 3 (0.6 x 3.5 x 100 mm) size 5 (1.0 x 5.5 x 125 mm) size 6 (1.2 x 6.5 x 150 mm)	
4665 VDE	PH0; PH1; PH2	
10760aCV/13	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"	
65015160, 65015180	160, 180 mm	
65245160	160 mm	
65295200	200 mm	
65305200	200 mm	
65315170	170 mm	
65156125	125 mm	
65765231	230 mm	
66005130	125 mm	
66025180	180 mm	
66235160	160 mm	
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	
10961	300 g	
12053		
12320		
12600	500 g	
12921N	∅ 40 mm	
12922E	∅ 6 mm	
13008	sizes 0; 1; 2; 3; 4; 5	
13010	sizes 0; 1; 2; 3; 4; 5	
13126-1		
13130		
13131		
13209		

13208a Board case for aircraft in tool case No 13209

57 tools











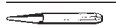


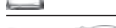











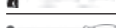






Code		△ kg
98810323		9
13a	1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2"	
4025	size 4; 6; 8	
1220	PH0	
1221	PH1	
1222	PH2	
1223	PH3	
13008	sizes 0; 1; 2; 3; 4; 5; 6	
13010	sizes 0; 1; 2; 3; 4; 5; 6; 8; 10	
4006/1	1/4" O	
4622	size 1 (1.0 x 5.5 x 100 mm) size 3 (1.2 x 8.0 x 150 mm) size 4 (1.6 x 10.0 x 175 mm)	
4632	PH1; PH2; PH3	
10760aCV/13	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"	
65015180	180 mm	
65105190	190 mm	
65516240	240 mm	
65765231	230 mm	
66005180	180 mm	
12320		
13126-1		
13209		

1



















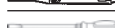





Factory and workshop equipment, sets of tools

1

13211a Sheetmetal set

53 tools		⚖ kg
Code		
97846008		9.9
 10a	1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16"	
 13a	7/32; 11/32"	
 230a	1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16"	
 4025	size 8	
 442	1/4" ○ 3/8" ○	
 443	5/16" ○ 3/8" ○	
 453QR	3/8" ■	
 103	150 mm	
 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	
 104	120 x 8 mm	
 108/6D	No 108/150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm	
 4622	size 1 (1.0 x 5.5 x 100 mm) size 3 (1.2 x 8.0 x 150 mm) size 4 (1.6 x 10.0 x 175 mm) size 6 (2.5 x 14.0 x 250 mm)	
 4630	PH1; PH2; PH3	
 4734	PH2	
 65016180	180 mm	
 65642175	175 mm	
 66026160	160 mm	
 10670	265 mm	
 10955	∅ 32 mm	
 10970	3/4; 1 1/2 lb.	
 12025	210 mm	
 12030	260 mm	
 12035	210 mm	
 12036	260 mm	
 12050	465 mm	
 12200	145 mm	
 12378		
 12752R		
 12800		
 12900N		
 12935/3	3 m	
 13110	300 mm	

13213a Engine mechanics set

129 tools		⚖ kg
Code		
97846010		12.1
 13a	19/32; 5/8; 11/16; 3/4"	
 130a	1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"	
 24	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"	
 230a	1/4 x 5/16; 5/16 x 3/8; 3/8 x 7/16; 7/16 x 1/2; 9/16 x 5/8; 5/8 x 3/4; 11/16 x 3/4"	
 405	1/4" ■ ○ sizes 10; 14	
 413	1/4" ■	
 415SGB N	1/4" ○	
 40aD/30/7QR	1/4" ○ No 40a: 1/8" No 40aD: 5/32; 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16" No 40aDL: 5/32; 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16" No 402a: 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2" No 400QR; 405/2QR (2x); 405/6QR; 407QR; 412; 415 SG-QR	
 45a/22/8QR	3/8" ○ No 45a: 1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8; 15/16; 1" No 47a: 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4" No 427/10QR; 427/6QR; 427/3QR; 428QR; 435SG-QR; 442; 443; 453QR	
 109	sizes 1; 2; 3; 4; 5	
 4622	size 1 (1.0 x 5.5 x 100 mm) size 2 (1.2 x 6.5 x 125 mm) size 4 (1.6 x 10.0 x 175 mm) size 5 (2.0 x 12.0 x 200 mm)	
 4631	PH1; PH2	
 4632	PH1; PH2; PH3	
 10760aCV/10T	1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4; 5/16; 3/8"	
 65165200	200 mm	
 65315170	170 mm	
 65516240	240 mm	
 65751220	230 mm	
 66005160	160 mm	
 10961	300 g	
 11097/22	4-25/1000"	
 12600	500 g	
 12900N		
 12921N	∅ 50 mm	

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

TCS QR

- for maintenance on aeroplanes and helicopters
- 123 tools



96835692	No	Content
	443	5/16" ○ 3/8" ○
	12921N	∅ 50 mm

96830795	No	Content
	65 165200	200 mm
	65 325170	170 mm
	65 516240	240 mm
	65 642175	175 mm
	65 75 1220	230 mm
	66 005160	160 mm

96830796	No	Content
	13a	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"

96831793	No	Content
	4622	size 1 (1.0 x 5.5 x 100 mm) size 3 (1.2 x 8.0 x 150 mm)
	11095/20	0.05-1 mm
	12935/3	3 m
	12900N	150 mm/6"
	10767a/13	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"
	12320	
	12321	
	13126-1	

96831794	No	Content
	104	120 x 2; 120 x 3; 120 x 4; 120 x 5 mm
	109	sizes 2; 5
	4155GB N	1/4" ○
	4632	PH1; PH2; PH3
	10961	500 g
	10956	∅ 35 mm

	No	Content
	453QR	3/8" ■
	1163	0.6 x 4.5 mm
	4000	
	8050	size 6 (4x); size 12 (6x)
	12053	
	12600	270 g
	12922E	∅ 6 mm
	13216/4	

Code	∅	kg
98814801		27.2



96835692



96830795



96830796



96831793



96831794

96835692	No	Content
	25aN	1/4 x 5/16; 5/16 x 11/32; 3/8 x 7/16; 1/2 x 9/16"
	40aD	1/4" ○ 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
	40aDL	1/4" ○ 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
	402a	1/4" ○ 1/4; 5/16; 3/8; 7/16; 1/2"
	405QR/2	1/4" ■ ○ 54 mm
	405QR/6	1/4" ■ ○ 150 mm
	407QR	1/4" ■ ○ 38 mm
	409M	3/8" ■ 1/4" ○
	412	1/4" ○ ○
	415QR N	1/4" ■
	45a	3/8" ○ 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 15/16; 1"
	46a	3/8" ○ 5/8; 11/16; 3/4; 7/8"
	427QR/3	3/8" ■ ○ 76 mm
	427QR/10	3/8" ■ ○ 240 mm
	428QR	3/8" ■ ○ 46 mm
	431	1/4" ■ 3/8" ○
	432M	1/2" ■ 3/8" ○
	435QR N	3/8" ■

Factory and workshop equipment, sets of tools

13214a
WT/LR

Line maintenance set in tool trolley
No 13217

TCS QR

- for maintenance on aeroplanes and helicopters
 - 122 tools
 - tool trolley
- No 13217 and accessories see pages (see pages 21, 22)



Code	kg
98814905	27



96830106



96830102



96830103



96830107



96830108



96830109

No	Content
40aD	1/4" ○ 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16"
40aDL	1/4" ○ 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16"
402a	1/4" ○ 1/4, 5/16, 3/8, 7/16, 1/2"
405QR/2	1/4" ■ ○ 54 mm
405QR/6	1/4" ■ ○ 150 mm
407QR	1/4" ■ ○ 38 mm
409M	3/8" ■ 1/4" ○
412	1/4" ○ ○
415QR N	1/4" ■
415SGB N	1/4" ○
45a	3/8" ○ 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 15/16, 1"
46a	3/8" ○ 5/8, 11/16, 3/4, 7/8"
427QR/3	3/8" ■ ○ 76 mm

No	Content
427QR/10	3/8" ■ ○ 240 mm
428QR	3/8" ■ ○ 46 mm
431	1/4" ■ 3/8" ○
432M	1/2" ■ 3/8" ○
435QR N	3/8" ■
443	5/16" ○ 3/8" ○

No	Content
65 16 5200	200 mm
65 32 5170	170 mm
65 51 6240	240 mm
65 64 2175	175 mm
65 75 1220	230 mm
66 00 5160	160 mm

No	Content
104	120 x 2; 120 x 3; 120 x 4; 120 x 5 mm
109	sizes 2; 5
4622	size 1 (1.0 x 5.5 x 100 mm) size 3 (1.2 x 8.0 x 150 mm)
4632	PH1; PH2; PH3
10961	500 g
10956	∅ 35 mm

No	Content
453	3/8" ■
25aN	1/4 x 5/16; 5/16 x 11/32; 3/8 x 7/16; 1/2 x 9/16"
11095/20	0.05-1 mm
12600	270 g
12921M	∅ 57 mm
12922E	∅ 6 mm
12320	
12321	
13126-2	

No	Content
4008-1	1/4" ○ size 1
13a	1 1/8"
12935/3	3 m
12900N	150 mm/6"
10767a/13	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"
12053	

No	Content
13a	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"

No	Content
13217-1 LR	

13214a WW Line maintenance set

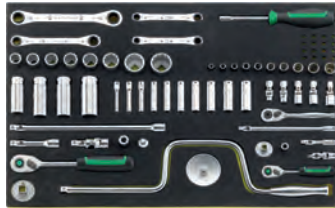
TCS QR

- for maintenance on aeroplanes and helicopters
- 122 tools, in TCS inlays (Tool Control System see pages 57-79)
- 4x3/3 inlays for 4 drawers (No 98VA for 2 drawers)
- suitable for workbench No WB620, tool trolleys 90, 95, 95VA, 98VA, magazine case No 920 and wheely box No 922N

Code	kg
97830802	12.5



96830885



96830886



96830887



96830888

96830885	No	Content
	13a	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"

96830886	No	Content
	40aD	1/4" ○ 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16"
	40aDL	1/4" ○ 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16"
	402a	1/4" ○ 1/4, 5/16, 3/8, 7/16, 1/2"
	405QR/2	1/4" ■ ○ 54 mm
	405QR/6	1/4" ■ ○ 150 mm
	407QR	1/4" ■ ○ 38 mm
	409M	3/8" ■ 1/4" ○
	415QR N	1/4" ■
	415SGB N	1/4" ○
	412	1/4" ○ ○
	45a	3/8" ○ 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 15/16, 1"
	46a	3/8" ○ 5/8, 11/16, 3/4, 7/8"
	427QR/3	3/8" ■ ○ 76 mm
	427QR/10	3/8" ■ ○ 240 mm
	428QR	3/8" ■ ○ 46 mm
	431	1/4" ■ 3/8" ○
	432M	1/2" ■ 3/8" ○
	435QR N	3/8" ■
	443	5/16" ○ 3/8" ■
	453QR	3/8" ■
	4000	
	25aN	1/4 x 5/16, 5/16 x 11/32, 3/8 x 7/16, 1/2 x 9/16"

96830887	No	Content
	4622	size 1 (1.0 x 5.5 x 100 mm) size 3 (1.2 x 8.0 x 150 mm)
	4632	PH1; PH2; PH3
	10767a/13	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"
	65 165200	200 mm
	65 325170	170 mm
	65 516240	240 mm
	65 642175	175 mm
	65 75 1220	230 mm
	66005160	160 mm

96830888	No	Content
	104	120 x 2; 120 x 3; 120 x 4; 120 x 5 mm
	109	sizes 2; 5
	10961	500 g
	10956	∅ 35 mm
	11095/20	0.05-1 mm
	12935/3	3 m
	12600	270 g
	12900N	150 mm/6"
	12921N	∅ 50 mm
	12922E	∅ 6 mm
	12053	
	12320	
	12321	
	13126-1	



Factory and workshop equipment, sets of tools

13224a
WT/TS

AOG-Kit for aeroplanes in tool trolley
No 13217

TCS **QR**

- 154 tools, in TCS inlays (Tool Control System see page 57)
- tool trolley No 13217 and accessories see pages 21, 22



Code	58
	kg
9881 49 10	28.4



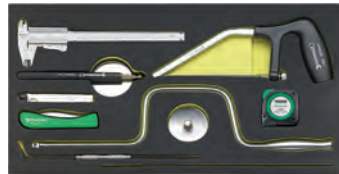
96830110



96830111



96830112



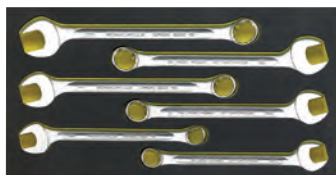
96830113



96830114



96830115



96830116

96830110	No	Content
	40aD	1/4" ○ 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16"
	40aDL	1/4" ○ 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16"
	402a 402aK	1/4" ○ 1/4, 5/16, 3/8, 7/16, 1/2 1/4" ○ 9/16"
	405W/2	1/4" ■ ○ 54 mm
	405QR/2	1/4" ■ ○ 54 mm
	405QR/6	1/4" ■ ○ 150 mm
	407QR	1/4" ■ ○ 45 mm

96830110	No	Content
	409M	3/8" ■ 1/4" ○
	412	1/4" ○ ○
	415QR N	1/4" ■
	45a	3/8" ○ 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 15/16, 1"
	46a	3/8" ○ 5/8, 11/16, 3/4, 7/8"
	427W/3	1/4" ■ ○ 76 mm
	427QR/3	3/8" ■ ○ 76 mm
	427QR/10	3/8" ■ ○ 240 mm
	428QR	3/8" ■ ○ 46 mm
	431	1/4" ■ 3/8" ○
	432M	1/2" ■ 3/8" ○
	435QR N	3/8" ■
	443	5/16" ○ 3/8" ○

96830111	No	Content
	104	120 x 2; 120 x 3; 120 x 4; 120 x 5 mm
	109	sizes 2; 5
	10961	300 g
	10956	∅ 27 mm
	12600	270 g
	12922E	∅ 6 mm
	12800	

96830112	No	Content
	65 16 5200	200 mm
	65 32 5170	170 mm
	65 64 2175	175 mm
	65 72 6240	240 mm
	65 75 1220	230 mm
	65 76 5231	230 mm
	66 00 5160	160 mm

96830113	No	Content
	453QR	3/8" ■
	11095/20	0.05-1 mm
	12935/3	3 m
	12900N	150 mm/6"
	12921M	∅ 57 mm
	13110	300 mm
	12053	
	12320	
	12321	

96830114	No	Content
	12a	5/32, 7/32, 1/4"
	13a	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"
	25aN	1/4 x 5/16, 5/16 x 11/32, 3/8 x 7/16, 1/2 x 9/16"

96830115	No	Content
	415B	1/4" O
	1204/21-1	4 x ⊕; 4 x ⊕; 9 x ⊕; 3 x ●
	4000	
	4622SK	size 1 (0.8 x 4.0 x 90 mm) size 3 (1.2 x 6.5 x 125 mm)
	4632SK	PH1; PH2; PH3
	4724	size 2 (1.0 x 5.5 x 25 mm)
	4734	PH2
	10767a/13	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"
	13126-1	

96830116	No	Content
	13a	13/16; 7/8; 15/16; 1; 1 1/16; 1 1/8"

No		
	13217-2 TS	

Tool Trolley 13217.

Ideally equipped.



Sophisticated.

Concealed under the lid are a removable tray with handles and two transparent drawer covers.



Flexible.

Easily removable drawers with endstops and three different drawer heights. Drawers can be inserted in any order.



Ingress protection to IP67.

Also available as a dust and waterproof IP67 version - with additional seals, closures and a pressure equalizing valve.

Organisation is peace-of-mind. STAHLWILLE's modular standard inlay system.

1



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.



1/6 inlay
175 x 175 mm



1/3 inlay
175 x 350 mm



2/3 inlay
350 x 350 mm



3/3 inlay
530 x 350 mm

FLEXIBLE.

Multi-functional - suites of tools in plastic inlays are suitable for workbench no. WB620, tool trolleys no. 90, 95, 95VA, 98VA, magazine case No. 920 and wheely box No. 922N.

LOGICAL.

The drawers of the Tool Trolleys can be optimally used if different sized inlays together with a few spare inlays are kept in store. In addition, these inlays are made of Skydrol resistant and permanently oil resistant engineering plastic to protect your high-grade tools against damage.



Tool sets in plastic inlays for workbench No WB620, tool trolleys No 90, 95, 95VA, 98VA; magazine case No 920 and wheely box No 922N (modular system)

ES TX/32



- 175 x 350 x 40 mm
- 32 pieces



Code	♻️ g
96838166	931

No	Content
21TX	sizes E6 x E8; E10 x E12; E14 x E18; E20 x E24
45TX	3/8" ⌀ sizes E8; E10; E12; E14
50TX	1/2" ⌀ sizes E16; E18; E20
412	1/4" ⌀ ⌀
442	1/4" ⌀ 3/8" ⌀
543	5/16" ⌀ 1/2" ⌀
1440	size T10
1441	size T15
1442	size T20
1443	size T25
1444	size T27
1445	size T30
1432	size T40
1433	size T45
1434	size T50
10766/9	sizes T8; T9; T10; T15; T20; T25; T27; T30; T40

ES 54X/54TX



- 175 x 350 x 38 mm
- 16 pieces



Code	♻️ g
96838115	1600

No	Content
54X	1/2" ⌀ M5; M6; M8; M10; M12; M14; M16
54TX	1/2" ⌀ sizes T20; T25; T27; T30; T40; T45; T50; T55; T60

ES 1054/2054TX/6



- 175 x 175 x 30 mm
- 6 pieces



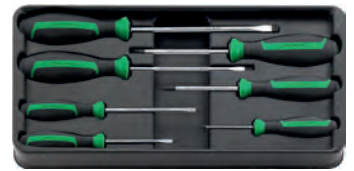
Code	♻️ g
96838163	900

No	Content
1054TX	1/2" ⌀ sizes T30; T50; T55; T60
2054TX	1/2" ⌀ sizes T40; T45

ES 4620/4628/4630/7



- 175 x 350 x 39 mm
- 7 pieces



Code	♻️ g
96838236	530

No	Content
4620	size 1 (0.6 x 3.5 x 75 mm) size 2 (0.8 x 4.0 x 100 mm) size 3 (1.0 x 5.5 x 125 mm) size 4 (1.2 x 6.5 x 150 mm)
4628	size 1 (0.4 x 2.5 x 60 mm)
4630	PH1; PH2

ES 4620/4630/8



- 175 x 350 x 39 mm
- 8 pieces



Code	♻️ g
96838237	770

No	Content
4620	size 1 (0.6 x 3.5 x 75 mm) size 2 (0.8 x 4.0 x 100 mm) size 3 (1.0 x 5.5 x 125 mm) size 4 (1.2 x 6.5 x 150 mm) size 5 (1.6 x 8.0 x 175 mm)
4630	PH1; PH2; PH3

Factory and workshop equipment, sets of tools

1

ES 4620/4622/4632/8



- 175 x 350 x 39 mm
- 8 pieces

Code	Δ∇ g
96838238	770

No	Content
4620	size 1 (0.6 x 3.5 x 75 mm) size 2 (0.8 x 4.0 x 100 mm)
4622	size 1 (1.0 x 5.5 x 100 mm) size 2 (1.2 x 6.5 x 125 mm) size 3 (1.2 x 8.0 x 150 mm)
4632	PH1; PH2; PH3

ES 4622-4734/9



- 175 x 350 x 39 mm
- 9 pieces

Code	Δ∇ g
96838234	865

No	Content
4622	size 1 (1.0 x 5.5 x 100 mm) size 2 (1.2 x 6.5 x 125 mm) size 3 (1.2 x 8.0 x 150 mm) size 4 (1.6 x 10.0 x 175 mm)
4628	size 1 (0.4 x 2.5 x 60 mm)
4632	PH1; PH2
4724	size 2 (1.0 x 5.5 x 25 mm)
4734	PH2

ES 4622SK/4632SK/6



- 175 x 350 x 39 mm
- 6 pieces

Code	Δ∇ g
96838219	770

No	Content
4622SK	size 1 (0.8 x 4.0 x 90 mm) size 2 (1.0 x 5.5 x 100 mm) size 3 (1.2 x 6.5 x 125 mm) size 4 (1.2 x 8.0 x 150 mm)
4632SK	PH1; PH2

ES 4650/9



- 175 x 350 x 39 mm
- 9 pieces

Code	Δ∇ g
96838217	645

No	Content
4650	sizes T8; T9; T10; T15; T20; T25; T27; T30; T40

ES 4656/9



- 175 x 350 x 39 mm
- 9 pieces

Code	Δ∇ g
96838218	645

No	Content
4656	sizes T8; T9; T10; T15; T20; T25; T27; T30; T40

ES 4660/4665 VDE/6



- 175 x 350 x 39 mm
- 6 pieces

Code	Δ∇ g
96838235	525

No	Content
4660 VDE	size 1 (0.4 x 2.5 x 75 mm) size 3 (0.6 x 3.5 x 100 mm) size 5 (1.0 x 5.5 x 125 mm) size 6 (1.2 x 6.5 x 150 mm)
4665 VDE	PH1; PH2

ES 4820/4830/6



- 175 x 350 x 33 mm
- 6 pieces

Code	Δ∇ g
96838134	480

No	Content
4820	size 0.6 x 3.5 x 75 mm size 0.8 x 4.0 x 100 mm size 1.0 x 5.5 x 125 mm size 1.2 x 6.5 x 150 mm
4830	PH1; PH2

ES 4820/4830/8



- 175 x 350 x 30 mm
- 8 pieces

Code	♻️ g
96838135	735

No	Content
4820	size 0.6 x 3.5 x 75 mm size 0.8 x 4.0 x 100 mm size 1.0 x 5.5 x 125 mm size 1.2 x 6.5 x 150 mm size 1.6 x 8.0 x 175 mm
4830	PH1; PH2; PH3

ES 4856/9



- 175 x 350 x 30 mm
- 9 pieces

Code	♻️ g
96838136	705

No	Content
4856	sizes T8; T9; T10; T15; T20; T25; T27; T30; T40

ES 10769/7



- 175 x 350 x 35 mm
- 7 pieces

Code	♻️ g
96838120	450

No	Content
10769	sizes T10; T15; T20; T25; T27; T30; T40

ES 10769B/7



- 175 x 350 x 35 mm
- 7 pieces

Code	♻️ g
96838129	420

No	Content
10769B	sizes T10; T15; T20; T25; T27; T30; T40

ES 6501-6602/7A



- 530 x 350 x 40 mm
- 7 pieces

Code	♻️ g
96838121	2085

No		
65015180	180 mm	
65295200	200 mm	
65434002	J2 180 mm	
65454002	A2 180 mm	
65516240	240 mm	
65642250	250 mm	
66025160	160 mm	

ES 6501-6602/7B



- 530 x 350 x 40 mm
- 7 pieces

Code	♻️ g
96838132	2055

No		
65015200	200 mm	
65295160	160 mm	
65434002	J2 180 mm	
65454002	A2 180 mm	
65516240	240 mm	
65642250	250 mm	
66025160	160 mm	

Factory and workshop equipment, sets of tools

1

ES 6543-6546/4



- 175 x 350 x 30 mm
- 4 pieces



Code	g
96838122	700

No		
65434002	J2	180 mm
65444021	J21	170 mm
65454002	A2	180 mm
65464021	A21	170 mm

ES 102/108/109/4



- 175 x 350 x 30 mm
- 4 pieces



Code	g
96838123	555

No	Content	
102	175 mm	
108	150 x 6; 175 x 6 mm	
109	size 6; 100 x 3.4 mm	

ES 102/105/108/8



- 175 x 350 x 33 mm
- 8 pieces



Code	g
96838124	900

No	Content	
102	175 mm	
105	120 x 12 mm	
108	150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm	

ES 10670-13110/11



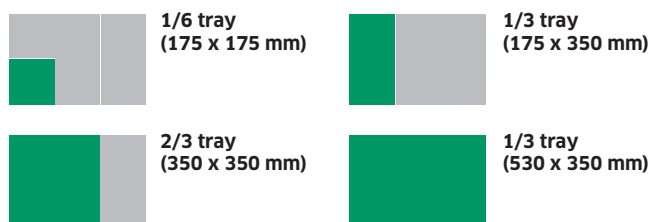
- 530 x 350 x 35 mm
- 11 pieces



Code	g
96838173	2120

No		
10670	265 mm	
12025	210 mm	
12030	260 mm	
12035	210 mm	
12036	260 mm	
12050	465 mm	
12320		
12321		
12377		
12935/3	3 m	
13110	300 mm	

The modular tool tray system



ES 10956/10961/2



- 175 x 350 x 45 mm
- 2 pieces



Code	g
96838125	1130

No		
10956	∅ 35 mm	
10961	500 g	

ES 10956/10970/2



- 175 x 350 x 45 mm
- 2 pieces



Code	♻️ g
96 83 81 31	1075

No		
10956	∅ 35 mm	
10970	1 lb.	

Empty inlay



- 175 x 350 x 30 mm



Code	♻️ g
83 81 20 47	110

Empty inlay



- 175 x 175 x 28 mm



Code	♻️ g
83 81 20 80	55

Tool sets in TCS inlays for workbench No WB620, tool trolleys No 90, 95, 95VA, 98VA; magazine case No 920 and wheelybox No 922N

1

TCS 10a/9



TCS

- 175 x 350 x 70 mm
- 9 pieces



Code	♻️ g
96 83 87 79	1555

No	Content
10a	1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16; 19/32 x 11/16; 5/8 x 3/4; 3/4 x 7/8; 25/32 x 13/16; 15/16 x 1; 1 1/8 x 1 5/16"

TCS 13a/19



TCS

- 350 x 350 x 55 mm
- 19 pieces



Code	♻️ g
96 83 87 78	2000

No	Content
13a	3/16; 7/32; 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"

TCS 13a/23



TCS

- 530 x 350 x 35 mm
- 23 pieces



Code	♻️ g
96 83 08 85	2800

No	Content
13a	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"

The modular tool inlay system. Tool Control System - built-in safety.

1



Originally developed by STAHLWILLE to meet high safety requirements for the aerospace industry, today users from all trades and industries appreciate the advantages of the Tool Control System (TCS). STAHLWILLE's Tool Control System (TCS) combines the highest levels of protection against damage, adds safety and efficiency and rounds off with the reassuring feeling that none of the tools has been left in a place that could, at some point in the future, become a safety risk.



1/3 inlay
175 x 350 mm



2/3 inlay
350 x 350 mm



3/3 inlay
530 x 350 mm



UNMISTAKEABLE.

Thanks to the noticeable yellow background, a quick glance at the tray shows instantly if everything is where it should be. The inlays are chemical-resistant and extremely flexible.

TAILOR-MADE.

Thanks to computer-aided production, every tool cut-out fits perfectly. Additional »push-out« recesses allow convenient removal of tools.

TCS 240/6



TCS



- 175 x 350 x 35 mm
- 6 pieces

Code	△△ g
96 83 8774	1163

No	Content
240	10; 11; 13; 14; 17; 19 mm

TCS 4025/3



TCS



- 175 x 350 x 30 mm
- 3 pieces

Code	△△ g
96 83 8797	920

No	Content
4025	sizes 6; 8; 10

TCS 4026/3



TCS

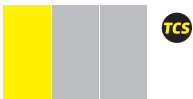


- 175 x 350 x 30 mm
- 3 pieces

Code	△△ g
96 83 8796	908

No	Content
4026	sizes 6; 8; 10

TCS 1/2"-512/6



TCS



- 175 x 350 x 35 mm
- 6 pieces

Code	△△ g
96 83 8175	1845

No	Content
506	1/2" ■ 300 mm
509/2	1/2" ■ ○ 52 mm
509/5	1/2" ■ ○ 130 mm
509/10	1/2" ■ ○ 255 mm
510	1/2" ■ ○ 71 mm
512	1/2" ■

TCS 1/2" - 512/6QR

NEW



TCS QR



- 175 x 350 x 35 mm
- 6 pieces

Code	△△ g
96 83 0362	1845

No	Content
506QR	1/2" ■ 300 mm
509QR/2	1/2" ■ ○ 52 mm
509QR/5	1/2" ■ ○ 130 mm
509QR/10	1/2" ■ ○ 255 mm
510QR	1/2" ■ ○ 80 mm
512QR N	1/2" ■

TCS 1/2"-512/9



TCS



- 175 x 350 x 40 mm
- 9 pieces

Code	△△ g
96 83 0603	2364

No	Content
506	1/2" ■ 300 mm
509/2	1/2" ■ ○ 52 mm
509/5	1/2" ■ ○ 130 mm
509/10	1/2" ■ ○ 255 mm (2x)
510	1/2" ■ ○ 71 mm
512	1/2" ■
513	3/8" ■ 1/2" ○
514	3/4" ■ 1/2" ○

TCS 1/2" - 512/9QR

NEW



TCS QR



- 175 x 350 x 40 mm
- 9 pieces

Code	△△ g
96 83 0363	2364

No	Content
506QR	1/2" ■ 300 mm
509QR/2	1/2" ■ ○ 52 mm
509QR/5	1/2" ■ ○ 130 mm
509QR/10	1/2" ■ ○ 255 mm (2x)
510QR	1/2" ■ ○ 80 mm
512QR N	1/2" ■
513	3/8" ■ 1/2" ○
514	3/4" ■ 1/2" ○

Factory and workshop equipment, sets of tools

1

TCS 50a/17



- 175 x 350 x 40 mm
- 17 pieces

Code	Δ
	g
96838780	1685

No	Content
50a	1/2" ○ 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"

TCS 50TX/54TX/17



- 175 x 350 x 40 mm
- 17 pieces

Code	Δ
	g
96838763	1415

No	Content
50TX	1/2" ○ sizes E10; E11; E12; E14; E16; E18; E20; E24
54TX	1/2" ○ sizes T20; T25; T27; T30; T40; T45; T50; T55; T60

TCS TX/57 MF N



- 350 x 350 x 75 mm
- 55 pieces

Code	Δ
	g
96830450	2060

No	Content
21TX	sizes E6 x E8; E10 x E12; E14 x E18; E20 x E24
40TX	1/4" ○ sizes E4; E5; E6; E7; E8
45TX	3/8" ○ sizes E10; E12; E14
49TX	3/8" ○ sizes T40; T45
50TX	1/2" ○ sizes E16; E18; E20; E24
54TX	1/2" ○ sizes T50; T55; T60
415SGB N	1/4" ○
412	1/4" ○ ○
442	1/4" ○ 3/8" ○
1410	size T6
1411	size T7
1412	size T8
1413	size T9
1440	size T10
1441	size T15
1442	size T20
1443	size T25
1444	size T27
1445	size T30
1446	size T40
1427	size T25 (65 mm)
4650	sizes T6; T7; T8; T9; T10; T15; T20; T25; T27; T30
10766/9	sizes T8; T9; T10; T15; T20; T25; T27; T30; T40

TCS 4620/4630



- 175 x 350 x 35 mm
- 7 pieces

Code	Δ
	g
96838278	590

No	Content
4620	size 1 (0.6 x 3.5 x 75 mm) size 2 (0.8 x 4.0 x 100 mm) size 3 (1.0 x 5.5 x 125 mm) size 4 (1.2 x 6.5 x 150 mm)
4630	PH1; PH2; PH3

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
the tools are in their places.

TCS 4620/4640



- 175 x 350 x 40 mm
- 7 pieces



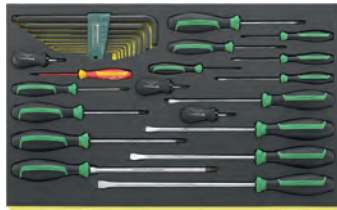
Code	△△ g
96 83 87 84	410

No	Content
4620	size 1 (0.6 x 3.5 x 75 mm) size 2 (0.8 x 4.0 x 100 mm) size 3 (1.0 x 5.5 x 125 mm) size 4 (1.2 x 6.5 x 150 mm)
4640	PZ1; PZ2; PZ3

TCS 4620/4660VDE+10767



- 530 x 350 x 35 mm
- 27 pieces



Code	△△ g
96 83 11 68	2200

No	Content
4620	size 1 (0.6 x 3.5 x 75 mm) size 2 (0.8 x 4.0 x 100 mm) size 4 (1.2 x 6.5 x 150 mm) size 5 (1.6 x 8.0 x 175 mm) size 6 (1.6 x 10.0 x 200 mm) size 7 (2.0 x 12.0 x 200 mm)
4628	size 1 (0.4 x 2.5 x 60 mm)
4630	PH1; PH2; PH3
4632	PH4
4640	PZ0; PZ1; PZ2
4660 VDE	size 1 (0.4 x 2.5 x 75 mm)
4724	size 2 (1.0 x 5.5 x 25 mm)
4734	PH2
4744	PZ1
10767/9	1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm

TCS 4620-4734/8



- 175 x 350 x 40 mm
- 8 pieces



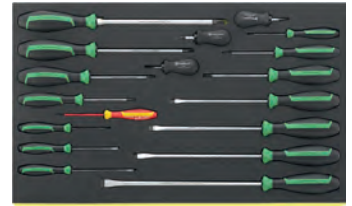
Code	△△ g
96 83 87 69	503

No	Content
4620	size 1 (0.6 x 3.5 x 75 mm) size 3 (1.0 x 5.5 x 125 mm) size 4 (1.2 x 6.5 x 150 mm)
4628	size 1 (0.4 x 2.5 x 60 mm)
4630	PH1; PH2
4724	size 2 (1.0 x 5.5 x 25 mm)
4734	PH2

TCS 4620/4660VDE



- 530 x 350 x 40 mm
- 18 pieces



Code	△△ g
96 83 11 79	1689

No	Content
4620	size 1 (0.6 x 3.5 x 75 mm) size 2 (0.8 x 4.0 x 100 mm) size 4 (1.2 x 6.5 x 150 mm) size 5 (1.6 x 8.0 x 175 mm) size 6 (1.6 x 10.0 x 200 mm) size 7 (2.0 x 12.0 x 200 mm)
4628	size 1 (0.4 x 2.5 x 60 mm)
4630	PH1; PH2; PH3
4632	PH4
4640	PZ0; PZ1; PZ2
4660 VDE	size 1 (0.4 x 2.5 x 75 mm)
4724	size 2 (1.0 x 5.5 x 25 mm)
4734	PH2
4744	PZ1

TCS 4621/4734/16



- 530 x 350 x 40 mm
- 16 pieces



Code	△△ g
96 83 20 98	1490

No	Content
4621	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 4.0 x 100 mm) size 4 (1.0 x 6.5 x 140 mm) size 5 (1.2 x 8.0 x 160 mm)
4631	PH1; PH2
4632	PH1; PH2; PH3
4724	size 2 (1.0 x 5.5 x 25 mm)
4734	PH2
10506	0.8 x 4.0 x 300 mm
10518	1.0 x 5.5 x 410 mm
12600	500 g
12922E	∅ 6 mm

Factory and workshop equipment, sets of tools

1

TCS 4622/4632



- 175 x 350 x 35 mm
- 6 pieces

Code	Δ
	g
96838783	845

No	Content
4622	size 1 (1.0 x 5.5 x 100 mm) size 2 (1.2 x 6.5 x 125 mm) size 3 (1.2 x 8.0 x 150 mm) size 4 (1.6 x 10.0 x 175 mm)
4632	PH2; PH3

TCS 4660/4665 VDE



- 175 x 350 x 40 mm
- 6 pieces

Code	Δ
	g
96838766	391

No	Content
4660 VDE	size 1 (0.4 x 2.5 x 75 mm) size 3 (0.6 x 3.5 x 100 mm) size 5 (1.0 x 5.5 x 125 mm) size 6 (1.2 x 6.5 x 150 mm)
4665 VDE	PH1; PH2

TCS 4650



- 175 x 350 x 35 mm
- 8 pieces

Code	Δ
	g
96838767	340

No	Content
4650	sizes T8; T9; T10; T15; T20; T25; T27; T30

TCS 4665/4670 VDE



- 175 x 350 x 40 mm
- 7 pieces

Code	Δ
	g
96838785	622

No	Content
4665 VDE	PH0; PH1; PH2; PH3
4670 VDE	PZ0; PZ1; PZ2

TCS 4820/4830



- 175 x 350 x 35 mm
- 7 pieces

Code	Δ
	g
96838184	555

No	Content
4820	size 0.6 x 3.5 x 75 mm size 0.8 x 4.0 x 100 mm size 1.0 x 5.5 x 125 mm size 1.2 x 6.5 x 150 mm
4830	PH1; PH2; PH3

TCS 4856



- 175 x 350 x 40 mm
- 7 pieces

Code	Δ
	g
96838755	447

No	Content
4856	sizes T8; T9; T10; T15; T20; T25; T30

TCS 10769+10771/17



- 350 x 350 x 30 mm
- 17 pieces

Code	Δ
	g
96832099	940

No	Content
10769	sizes T9; T10; T15; T20; T25; T30; T40; T45; T50
10771/8	sizes T9; T10; T15; T20; T25; T27; T30; T40

TCS 4751/4752



TCS



- 175 x 350 x 35 mm
- 9 pieces

Code	g
96838787	275

No	Content
4751	size 4 (0.3 x 1.5 x 40 mm) size 6 (0.4 x 2.0 x 60 mm) size 7 (0.4 x 2.5 x 75 mm) size 8 (0.5 x 3.0 x 75 mm)
4752	PH00; PH0; PH1
65406120	
66046110	

TCS 6501-6602/3



TCS



- 175 x 350 x 40 mm
- 3 pieces

Code	g
96838775	1125

No	
65015200	200 mm
65516300	302 mm
66025180	180 mm

TCS 6501-6602/4



TCS



- 175 x 350 x 35 mm
- 4 pieces

Code	g
96838179	1070

No	
65015180	180 mm
65295200	200 mm
65516240	240 mm
66025160	160 mm

TCS 6501-6602/4N



TCS



- 175 x 350 x 35 mm
- 4 pieces

Code	g
96830622	1145

No	
65015180	180 mm
65295200	200 mm
65726240	240 mm
66025160	160 mm

TCS 6534-6545/6



TCS



- 350 x 350 x 30 mm
- 6 pieces

Code	g
96832100	1070

No	
65345280	280 mm
65355200	200 mm
65434001	J1 140 mm
65434002	J2 180 mm
65454001	A1 140 mm
65454002	A2 180 mm

Factory and workshop equipment, sets of tools

1

TCS 6543-6564/3



TCS



- 175 x 350 x 30 mm
- 3 pieces

Code	g
96838180	975

No		
65434002	J2	180 mm
65454002	A2	180 mm
65642250		250 mm

TCS 6543-6546/4



TCS



- 175 x 350 x 30 mm
- 4 pieces

Code	g
96830608	626

No		
65434002	J2	180 mm
65444021	J21	170 mm
65454002	A2	180 mm
65464021	A21	170 mm

TCS 6501-6600/3 VDE



TCS



- 175 x 350 x 40 mm
- 3 pieces

Code	g
96838770	725

No		
65017180		180 mm
65297200		200 mm
66007160		160 mm

TCS 102-108/11



TCS



- 175 x 350 x 33 mm
- 11 pieces

Code	g
96838754	1665

No	Content	
102	150; 200; 250 mm	
105	120 x 10; 120 x 12 mm	
108	150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm	

TCS 102-108/10959/10961/16



TCS



- 530 x 350 x 45 mm
- 16 pieces

Code	g
96830609	3715

No	Content	
102	200 mm	
103	150 mm	
105	120 x 10 mm	
108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm	
10959	∅ 40 mm	
10961	500 g	
12373		
12600	500 g	
12718		
12935/3	3 m	
65642250	250 mm	
39Pkw	400 mm	

TCS 102-108/10961/10



TCS



- 175 x 350 x 40 mm
- 10 pieces

Code	g
96830361	1569

No	Content	
102	200 mm	
105	120 x 12 mm	
108	115 x 2; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 175 x 4; 200 x 8 mm	
10961	500 g	

TCS 102-108/10959/10961/13



TCS



- 530 x 350 x 60 mm
- 13 pieces

Code		g
96830177		5800

No	Content
102	200; 300 mm
103	175 mm
105	120 x 12 mm
108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
10959	∅ 50 mm
10961	500; 800; 1000 g

TCS 102-108/10959/12718/13



TCS



- 530 x 350 x 40 mm
- 13 pieces

Code		g
96830226		3730

No	Content
102	200 mm
103	150 mm
105	120 x 10 mm
108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8; 200 x 8 mm
10959	∅ 40 mm
10961	500; 800 g
12718	

TCS 102-108/10959/10961 MF



TCS



- 530 x 350 x 40 mm
- 12 pieces

Code		g
96830355		3343

No	Content
102	200 mm
103	150 mm
105	120 x 10 mm
108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
10959	∅ 40 mm
10961	500; 800 g
12718	

TCS 102-108/10956/10961/18



TCS



- 530 x 350 x 55 mm
- 18 pieces

Code		g
96830620		3653

No	Content
102	150 mm
103	150 mm
105	120 x 10 mm
108	150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
10956	∅ 50 mm
10961	300; 500 g
10672	20 x 315 mm
12374	
12900N	150 mm/6"
12965N	

Factory and workshop equipment, sets of tools

1

TCS 102-109/10956/10961/6



TCS



- 175 x 350 x 40 mm
- 6 pieces

Code	Δ	g
96838181		1605

No	Content
102	175 mm
108	150 x 6; 175 x 6 mm
109	size 6; 100 x 3.4 mm
10956	∅ 35 mm
10961	500 g

TCS 11095-13110/8



TCS



- 175 x 350 x 40 mm
- 8 pieces

Code	Δ	g
96838789		700

No	Content
11095/20	0.05 - 1.00 mm
12000	ISO
12321	
12322	
12665/52	0.25 - 6 mm
12900N	150 mm/6"
12935/3	3 m
13110	300 mm

TCS 12025-13110/11



TCS



- 530 x 350 x 35 mm
- 11 pieces

Code	Δ	g
96838759		2410

No	Content
12025	210 mm
12030	260 mm
12035	210 mm
12036	260 mm
12050	300 mm
12320	
12321	
12718	
12935/3	3 m
12965N	
13110	300 mm

TCS 10356-12965/5



TCS



- 175 x 350 x 40 mm
- 5 pieces

Code	Δ	g
96838790		595

No	Content
10356	40 mm
10356R	10 pieces
12053	158 mm
12320	
12965	

TCS 1/3 MF



TCS



- 175 x 350 x 30 mm
- empty inlay

Code	Δ	g
83820360		30





2 SPANNERS

Double open ended spanners
»» Page 56



Combination spanners
»» Page 57



Double ended ring spanners
»» Page 58



Double ended open ring spanners
»» Page 59



Ratchet wrenches
»» Page 60



Striking face ring spanners
»» Page 61



Single-end spanners
»» Page 62



Strong, extremely tough and durable. **STAHLWILLE spanners.**



There are many spanners available. But hardly any that are as well thought out as STAHLWILLE spanners. The non-slip finish means all our spanners fit comfortably in the hand, even when used for long periods of time and when higher forces are applied. By combining high-quality special steels, which are subject to continuous quality controls, with a sophisticated forging process, we make them particularly durable and robust.



LIGHTER.

The thumb groove along the spanner handle eliminates material where there is no stress and concentrates it where it is needed. Similar to the principle of an H-beam in construction, extreme load-bearing capacity and maximum flexural strength are achieved with lower weight.

MORE CHOICE.

As one of only a few manufacturers, STAHLWILLE offers a comprehensively diverse range of metric, imperial, spline drive and TORX® spanners.





STRONGER.

The AS-Drive® profile enables high force transmission without damaging the fasteners. While the force acts on the flats of the screws, the corners are left free and are not rounded off. Thanks to the forged double hex, they are tougher than any fastener.

2

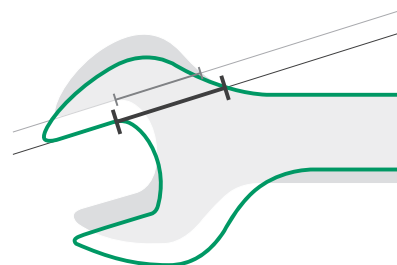


SLIMMER.

Extremely thin-walled rings facilitate work in confined spaces. In addition, the rings are higher than standard nuts - which prevents the spanner seizing on the nut.

MORE ROBUST.

When force is applied to a spanner, the greatest force acts on the area between the jaw and the shank, which is why STAHLWILLE spanners are reinforced at this point. The special design makes the load zones more resilient, which reduces the risk of breakage to a minimum.



— STAHLWILLE spanners
— Conventional spanners

MORE ACCURATE.

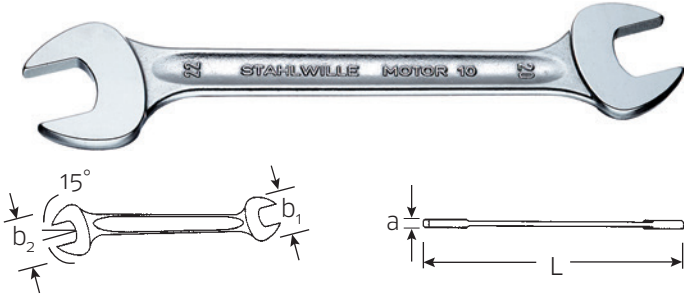
Our very tight manufacturing tolerances and reproducible dimensional accuracy ensure that one STAHLWILLE spanner is as close-fitting as the next. In this way, both open-jaw and ring spanners will always firmly hug the fastener head - for excellent power-lock.



Spanners

10a Double open ended spanners

- Chrome Alloy Steel, chrome plated



Code	"	L mm	b ₁ mm	b ₂ mm	a mm	△ g	📦
40 43 16 20	1/4 x 5/16	140	16	18	4	21	10
40 43 20 24	5/16 x 3/8	140	18	23	4.5	34	10
40 43 24 28	3/8 x 7/16	155	23	26	4.8	48	10
40 43 28 32	7/16 x 1/2	170	26	30	5.3	58	10
40 43 32 34	1/2 x 9/16	190	30	32	5.3	73	10
40 43 34 36	9/16 x 5/8	205	32	36	5.8	96	10
40 43 35 38	19/32 x 11/16	205	35	40	5.8	105	10
40 43 36 38	5/8 x 11/16	205	36	40	5.8	101	10
40 43 36 40	5/8 x 3/4	220	36	42	6.7	135	10
40 43 38 40	11/16 x 3/4	220	40	42	6.7	135	10
40 43 38 42	11/16 x 13/16	235	40	47	7.3	167	10
40 43 40 44	3/8 x 7/8	235	42	49	7.3	177	10
40 43 41 42	25/32 x 13/16	235	45	47	7.3	190	10
40 43 44 46	7/8 x 15/16	250	49	53	7.8	235	10
40 43 46 48	15/16 x 1	270	53	55	8.3	270	5
40 43 52 58	1 1/8 x 1 5/16	300	64	75	9.4	502	5

10a Sets double open ended spanners

- roll-up wallet made of extremely tough textile with Velcro fastener



Code	No	Content "	△ g
96 40 43 06	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
96 40 43 07	10a/11	1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16; 9/16 x 5/8; 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; 1 1/8 x 1 5/16	2100

TCS 10a/9

- 175 x 350 x 70 mm
- 9 pieces

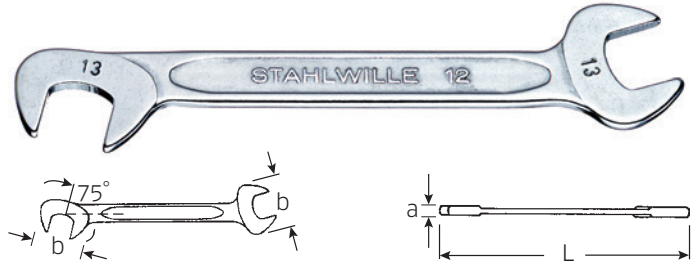


Code	△ g
96 83 87 79	1555

No	Content
10a	1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16; 19/32 x 11/16; 5/8 x 3/4; 3/4 x 7/8; 25/32 x 13/16; 15/16 x 1; 1 1/8 x 1 5/16"

12a Small double open ended spanners ELECTRIC

- Chrome Alloy Steel, chrome plated



Code	"	L mm	b mm	a mm	△ g	📦
40 46 10 10	5/32	70	10.5	2	5	10
40 46 12 12	3/16	70	10.5	2	5	10
40 46 13 13	13/64	78	12.6	2	7	10
40 46 14 14	7/32	78	12.6	2	6	10
40 46 15 15	15/64	78	12.6	2	6	10
40 46 16 16	1/4	91	14.7	2	9	10
40 46 18 18	9/32	91	14.7	2	9	10
40 46 20 20	5/16	96	16.8	3	16	10
40 46 22 22	11/32	103	18.9	3	19	10
40 46 24 24	3/8	105	21	3	22	10
40 46 28 28	7/16	116	24.2	3	28	10
40 46 32 32	1/2	131	28.3	3	37	10
40 46 34 34	9/16	131	28.3	3	36	10

12a Set small double open ended spanners ELECTRIC

- roll-up wallet made of extremely tough textile with Velcro fastener

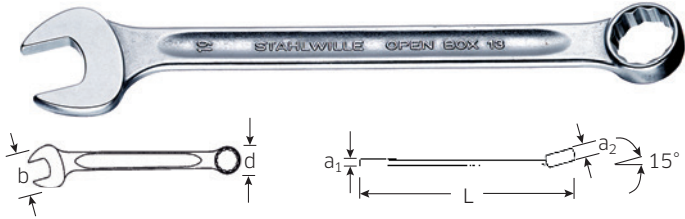


Code	No	Content "	△ g
96 40 46 54	12a/13	5/32; 3/16; 13/64; 7/32; 15/64; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16	320

13a Combination spanners OPEN-BOX

AS DRIVE

• Chrome Alloy Steel, chrome plated



Code	"	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	10	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	15	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	70	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	332	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	461	80	51.4	10	18	760	1
40 48 64 64	1 1/2	480	87	53.6	11	19	950	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	1640	1
40 48 72 72	2	530	103	74	14	21	1700	1

STAHLWILLE roll-up wallets.

Robust and resilient.



The spanners are supplied in convenient roll-up wallets and this ensures the tools are well protected but only take up the minimum possible space.

13a Sets combination spanners OPEN-BOX

AS DRIVE



Code	No	Content	⚖ g
96 40 48 03	13a/8 ¹⁾	7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8	900
96 40 48 12	13a/10KT ¹⁾	1/4; 5/16; 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	3180

¹⁾ carton with clear view cover

²⁾ packed in carton

TCS 13a/19



TCS



- 350 x 350 x 55 mm
- 19 pieces

Code	⚖ g
96 83 87 78	2000

No	Content
🔧 13a	3/16; 7/32; 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"

TCS 13a/23



TCS



- 530 x 350 x 35 mm
- 23 pieces

Code	⚖ g
96 83 08 85	2800

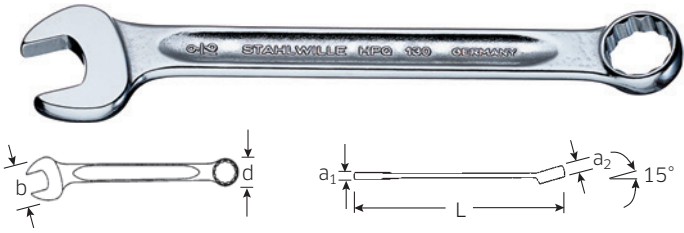
No	Content
🔧 13a	3/16; 13/64; 7/32; 15/64; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8; 15/16; 1; 1 1/16; 1 1/8"

Spanners

130a Combination spanners



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

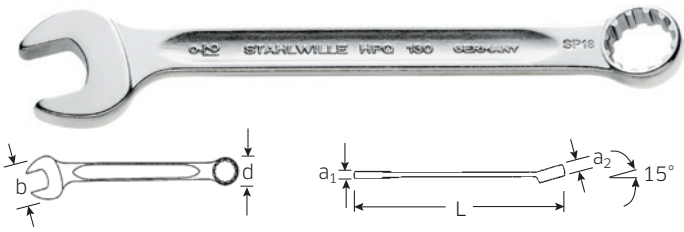


Code	"	L mm	b mm	d mm	a ₁ mm	a ₂ mm	Δ g	g	Box
4057 16 16	1/4	105	14.2	9.8	3.6	6	15	10	
4057 18 18	9/32	110	15.5	10.9	4.1	6	16	10	
4057 20 20	5/16	115	17	12	4.5	7	20	10	
4057 22 22	11/32	120	19	13.1	4.9	7	25	10	
4057 24 24	3/8	125	20.5	14.1	5.2	7	32	10	
4057 28 28	7/16	135	23	16.2	6	8	42	10	
4057 32 32	1/2	150	27	18.2	6.5	8.5	61	10	
4057 34 34	9/16	165	30.5	20.6	7	8.5	78	10	

130aSP Combination spanners



- with spline-drive profile
- MS-33787, MIL-W-8982
- HPQ® high performance steel, chrome plated



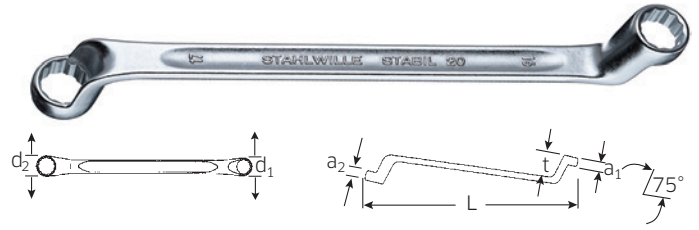
Code	Spline size	"	L mm	b mm	d mm	a ₁ mm	a ₂ mm	Δ g	g	Box
4058 16 16	8	1/4	105	14.2	10	3.6	5.6	13	5	
4058 20 20	10	5/16	115	17	12.2	4.5	6.4	21	5	
4058 24 24	12	3/8	125	20.5	14.8	5.2	7	31	5	
4058 28 28	14	7/16	135	23	16.5	6	8	43	5	
4058 32 32	16	1/2	150	27	18.7	6.5	8.5	59	5	
4058 34 34	18	9/16	165	30.5	20.8	7	8.5	84	5	

20a Double ended ring spanners



StahlwilleSTABIL®

- offset
- Chrome Alloy Steel, chrome plated



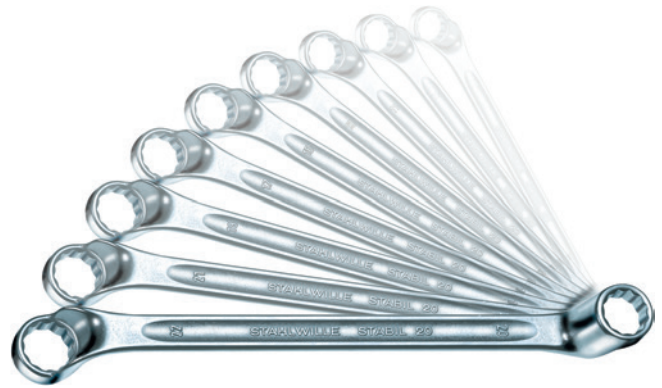
Code	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	t mm	Δ g	g	Box
4144 16 20	1/4 x 5/16	180	11.8	13.1	7	7	20	55	10	
4144 24 28	3/8 x 7/16	200	15.8	17.2	9	9	23	88	10	
4144 32 34	1/2 x 9/16	220	20	21.3	9	10	25	120	10	
4144 34 36	9/16 x 5/8	245	21.3	25.3	10	12	27	168	10	
4144 35 38	19/32 x 11/16	255	23.9	25.3	11	12	27	175	10	
4144 36 40	5/8 x 3/4	270	23.9	28	12	13	29	235	10	
4144 38 42	11/16 x 13/16	300	25.3	30.7	12	13	31	280	5	
4144 40 44	3/4 x 7/8	300	28	32.1	13	14	31	299	5	
4144 41 42	25/32 x 13/16	300	29.4	32.1	13	14	31	333	5	
4144 44 46	7/8 x 15/16	330	32.1	34.7	14	14	34	363	5	
4144 46 48	15/16 x 1	330	34.7	37.3	14	15	34	419	5	
4144 52 58	1 1/8 x 1 5/16	365	42.6	45.4	15	16	37	581	1	

20a Sets double ended ring spanners



StahlwilleSTABIL®

- offset
- packed in carton

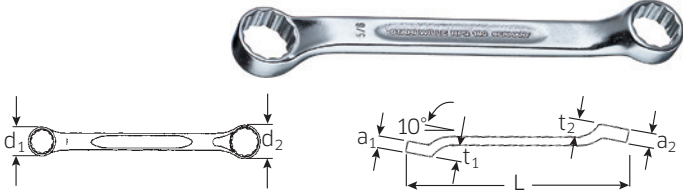


Code	No	Content	Δ g
9641 4402	20a/6	1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16; 5/8 x 3/4; 11/16 x 13/16; 7/8 x 15/16	1200
9641 4405	20a/10	1/4 x 5/16; 3/8 x 7/16; 1/2 x 9/16; 9/16 x 5/8; 19/32 x 11/16; 5/8 x 3/4; 11/16 x 13/16; 3/4 x 7/8; 25/32 x 13/16; 7/8 x 15/16	2200

180a Double ended ring spanners

AS
DIN 9137 HPO

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

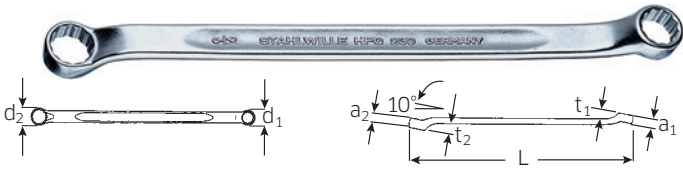


Code	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	t ₁ mm	t ₂ mm	ΔΔ g	
41601620	1/4 x 5/16	107	10.2	11.8	7	8	7.2	7.4	26	10
41602428	3/8 x 7/16	122	14.6	16.7	6.7	7.8	9	10	42	10
41603234	1/2 x 9/16	141	18.5	20.7	8.7	9.5	11	12	62	10
41603436	9/16 x 5/8	148	20.7	22.6	9.5	10.5	11.5	12.5	90	10

230a Double ended ring spanners

AS
DIN 9137 HPO

- 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 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	ΔΔ g	
41611620	1/4 x 5/16	180	10.2	11.9	5.2	6	7.9	8.8	45	10
41612022	5/16 x 11/32	195	11.9	13.5	7	8	8	9	45	10
41612024	5/16 x 3/8	195	11.9	14.6	6	7.9	10.8	12.4	54	10
41612428	3/8 x 7/16	215	14.6	16.7	7.9	8.7	11.4	11.7	74	10
41612832	7/16 x 1/2	225	16.7	19.5	8.7	9.1	11.9	12.6	105	10
41613234	1/2 x 9/16	235	19.5	20.7	9.1	9.5	12.2	12.9	110	10
41613436	9/16 x 5/8	245	20.7	22.6	9.5	11.5	13.8	13.9	122	10
41613640	5/8 x 3/4	274	22.6	27.5	11.1	12	14.8	15.8	160	10
41613840	11/16 x 3/4	275	25.4	27.5	11.1	12	15.2	15.8	190	10
41614244	13/16 x 7/8	301	29.5	31.7	13.5	14.5	19	20	260	5
41614648	15/16 x 1	340	34.1	36.5	14.5	15	22	23	375	5
41614850	1 x 1 1/16	368	36.5	38.6	15	16	23	24	460	5
41615256	1 1/8 x 1 1/4	403	40.8	45	16	18	25	27	620	5

220a Double ended ring spanners

AS
DIN 9137 HPO

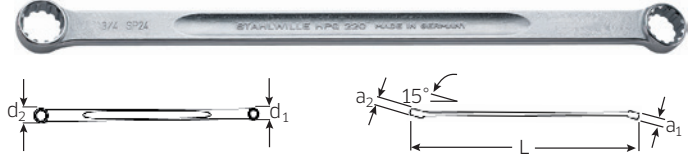
- extra long
- 15° angled
- SAE AS 954-E (test loads)
- HPQ® high performance steel, chrome plated

Code	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	ΔΔ g	
41431416	7/32 x 1/4	184	9	9.9	5.3	5.8	29	5
41431620	1/4 x 5/16	205	9.9	12.2	5.6	6	33	5
41432428	3/8 x 7/16	250	14	16	8	8.7	79	5
41433234	1/2 x 9/16	290	18.5	21	9.5	9.5	160	5
41433640	5/8 x 3/4	363	22.6	27	11	12	298	5
41433840	11/16 x 3/4	365	25	27	11	12	291	5

220aSP Double ended ring spanners

HPQ

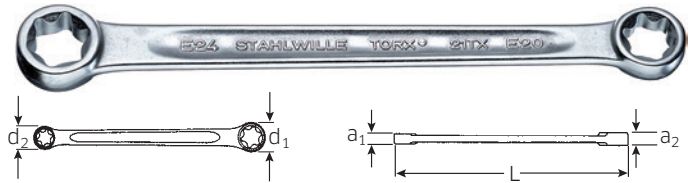
- extra long
- with spline-drive profile
- 15° angled
- MS-33787, MIL-W-8982
- HPQ® high performance steel, chrome plated



Code	Spline size	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	ΔΔ g	
41160709	7 x 9	7/32 x 9/32	185	9.4	11.5	5.3	5.8	28	5
41160810	8 x 10	1/4 x 5/16	205	10.4	12.4	5.6	6	33	5
41161214	12 x 14	3/8 x 7/16	250	14.9	17	8	8.7	79	5
41161618	16 x 18	1/2 x 9/16	290	19	21	9.5	9.5	161	5
41161820	18 x 20	9/16 x 5/8	315	21	23	10	11	205	5
41162224	22 x 24	11/16 x 3/4	365	25	27.5	11	12	310	5
41162630	26 x 30	13/16 x 15/16	410	29.5	34	13	14.3	496	5
41162832	28 x 32	7/8 x 1	430	32	36.5	13.5	15	582	5

21TX Double ended ring spanners

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

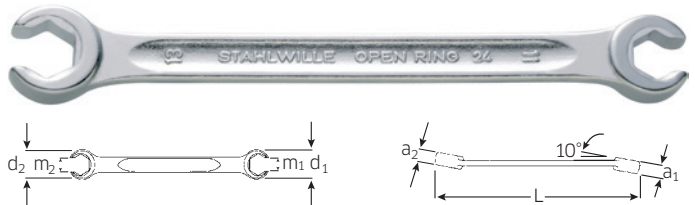


Code	size	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	ΔΔ g	
41250608	E6 x E8	115.5	9.6	11.6	4.5	5.5	17	10
41251012	E10 x E12	149.5	13.7	15.7	6.5	7.5	33	10
41251418	E14 x E18	185	17.8	22.5	8	9.5	71	10
41252024	E20 x E24	227	24.7	29.2	10.5	12.5	129	10

24a Double ended open ring spanners, angled

AS
DIN 9137

- hexagon
- Chrome Alloy Steel, chrome plated



Code	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	m ₁ mm	m ₂ mm	ΔΔ 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

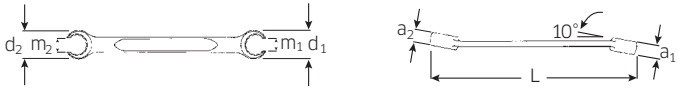
Spanners

24a

Double ended open ring spanners, angled

AS DRIVE

- bi-hexagon
- Chrome Alloy Steel, chrome plated

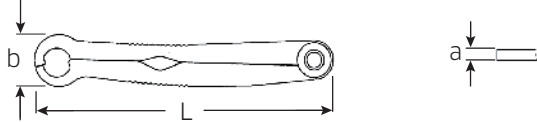


Code	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	m ₁ mm	m ₂ mm	Δ g	g	
41 18 36 40	5/8 x 3/4	218	29	33	12	13	12.7	15.8	148	5	
41 18 40 48	3/4 x 1	232	33	40.2	13	16	15.8	19	199	5	

240

Ratchet wrenches FastRatch

- patent
- 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	"	L mm	b mm	a mm	Δ g	g	
41 10 08 08	8 5/16	121.4	16	4	60	1	
41 10 10 10	10 3/8	133.3	20	4	70	1	
41 10 11 11	11 7/16	140.4	23	5	103	1	
41 10 12 12	12 15/32	146.3	25	5	100	1	
41 10 13 13	13 1/2	168.4	26.8	6	154	1	
41 10 14 14	14 9/16	174.6	29.6	6	180	1	
41 10 16 16	16 5/8	191.3	32.8	7	270	1	
41 10 17 17	17 21/32	201.7	34.3	7	292	1	
41 10 18 18	18 11/16	212.8	36.2	7	310	1	
41 10 19 19	19 3/4	238.5	38.5	7	367	1	

240

Sets ratchet wrenches FastRatch

- roll-up wallet made of extremely tough textile with Velcro fastener



Code	No	Content "	Δ g	g
96 41 10 03	240/4	5/16; 3/8; 7/16; 9/16		510
96 41 10 05	240/5	3/8; 7/16; 9/16; 21/32; 3/4		1122
96 41 10 06	240/6	5/16; 3/8; 7/16; 1/2; 9/16; 21/32; 3/4		1230

TCS 240/6



TCS



- 175 x 350 x 35 mm
- 6 pieces

Code	Δ g	g
96 83 87 74		1163

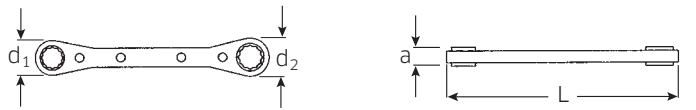
No	Content
240	3/8; 7/16; 1/2; 9/16; 21/32; 3/4"

25aN

Ratchet ring spanners

AS DRIVE

- with bi-hexagon
- straight
- 22 teeth
- chrome plated
- made of solid steel
- Fed. Spec. GGG-W-001405



Code	"	L mm	d ₁ mm	d ₂ mm	a mm	Δ g	g	
41 56 16 20	1/4 x 5/16	109	15	17	9	60	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	160	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	

STAHLWILLE
»AS-Drive«

AS
DRIVE

STAHLWILLE combination spanners and double-ended ring spanners are made with the AS Drive*, which permits high transmission of forces to the flats of nuts and bolts without damaging them.

* Anti-Slip drive

25a Sets ratchet ring spanners

AS
DRIVE

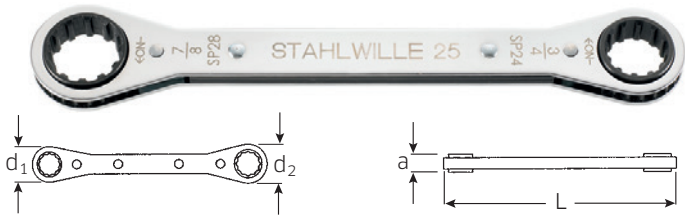
- roll-up wallet made of extremely tough textile with Velcro fastener



Code	No	Content	g
96 41 56 02	25a/4N	3/8 x 7/16; 1/2 x 9/16; 5/8 x 11/16; 3/4 x 7/8	1000
96 41 56 01	25a/7N	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	1271

25aSP Ratchet ring spanners

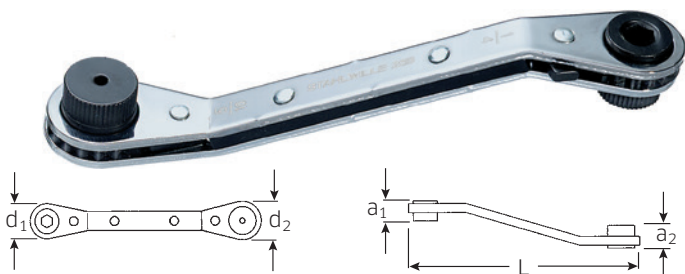
- straight
- with spline-drive profile
- 22 teeth
- chrome plated



Code	Spline size	"	L mm	d1 mm	d2 mm	a mm	g
41 57 08 10	8 x 10	1/4 x 5/16	109	15	17	9	59
41 57 12 14	12 x 14	3/8 x 7/16	139	20	23	9	84
41 57 16 18	16 x 18	1/2 x 9/16	174	26	30	12	153
41 57 20 22	20 x 22	5/8 x 11/16	205	33	36	12	250
41 57 24 28	24 x 28	3/4 x 7/8	235	36	40	13	279

25B Ratcheting bit holder

- reversible
- for hexagon bits
- magnetic location
- reversible heads angled
- chrome plated

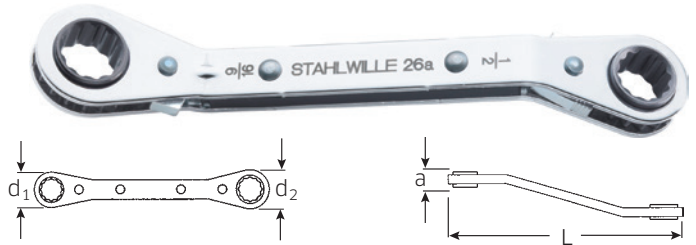


Code	"	L mm	d1 mm	d2 mm	a1 mm	a2 mm	g
41 54 16 20	1/4 x 5/16	138	20	23	15	17	105

26a Ratchet ring spanners

AS
DRIVE

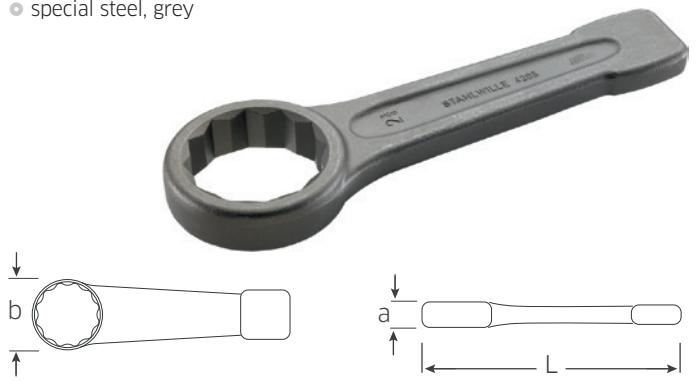
- reversible
- with bi-hexagon
- angled
- 22 teeth
- chrome plated



Code	"	L mm	d1 mm	d2 mm	a mm	g
41 55 16 20	1/4 x 5/16	109	15	17	9	55
41 55 24 28	3/8 x 7/16	139	20	23	9	80
41 55 32 34	1/2 x 9/16	170	26	30	12	140

4205a Striking face ring spanners

- special steel, grey



Code	"	L mm	b mm	a mm	g
42 45 00 56	1 1/4	190	52	17	350
42 45 00 58	1 5/16	190	52	17	350
42 45 00 64	1 1/2	205	58	18	500
42 45 00 66	1 5/8	230	66	20	700
42 45 00 67	1 11/16	230	66	20	700
42 45 00 69	1 13/16	240	74	22	975
42 45 00 70	1 7/8	240	74	22	975
42 45 00 72	2	255	80	24	1075
42 45 00 73	2 1/16	255	80	24	1075
42 45 00 75	2 3/16	270	86	25	1320
42 45 00 76	2 1/4	270	86	25	1340
42 45 00 78	2 3/8	280	93	26	1600
42 45 00 79	2 7/16	280	93	26	1600
42 45 00 81	2 9/16	300	102	30	2300
42 45 00 82	2 5/8	300	102	30	2300
42 45 00 84	2 3/4	330	110	33	2900
42 45 00 85	2 13/16	330	110	33	2900
42 45 00 87	2 15/16	330	110	33	2900

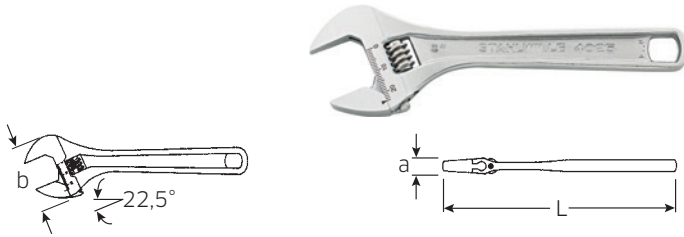
additional spanner sizes on request

Spanners

2

4025 Single-end spanners, adjustable NEW

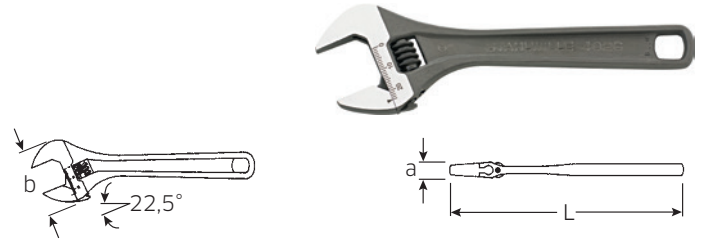
- right-handed
- DIN 3117/ISO 6787 (B shape)
- ASME B107.100
- jaw offset 22.5°
- Chrome Vanadium, chrome plated



Code	size	max. mm	L mm	b mm	a mm	g	g
40250104	4	13	115	35	9.5	52	5
40250106	6	24	161	50	10.8	155	5
40250108	8	30	207	62	14	310	5
40250110	10	34	259	74	15.8	490	5
40250112	12	39	311	84	19	805	5
40250115	15	44	386	106	25	1320	1
40250118	18	53	462	124	30	2040	1

4026 Single-end spanners, adjustable NEW

- left-handed
- DIN 3117/ISO 6787 (B shape)
- ASME B 107.100
- jaw offset 22.5°
- Chrome-Vanadium, gunmetal finish



Code	size	max. mm	L mm	b mm	a mm	g	g
40260104	4	13	115	35	9.5	52	5
40260106	6	24	161	50	10.8	155	5
40260108	8	30	207	62	14	310	5
40260110	10	34	259	74	15.8	490	5
40260112	12	39	311	84	19	805	5
40260115	15	44	386	106	25	1320	1
40260118	18	53	462	124	30	2040	1

TCS 4025/3 NEW

- 175 x 350 x 30 mm
- 3 pieces



Code	g
96838797	920

No	Content
4025	sizes 6; 8; 10

TCS 4026/3 NEW

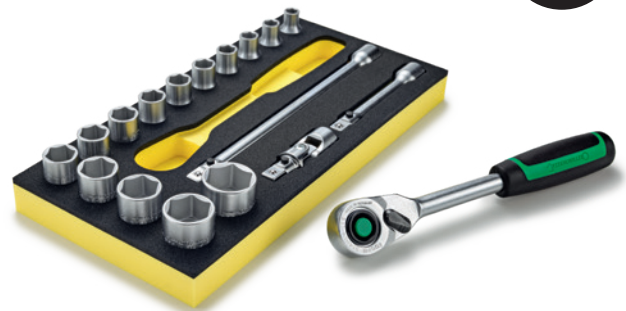
- 175 x 350 x 30 mm
- 3 pieces



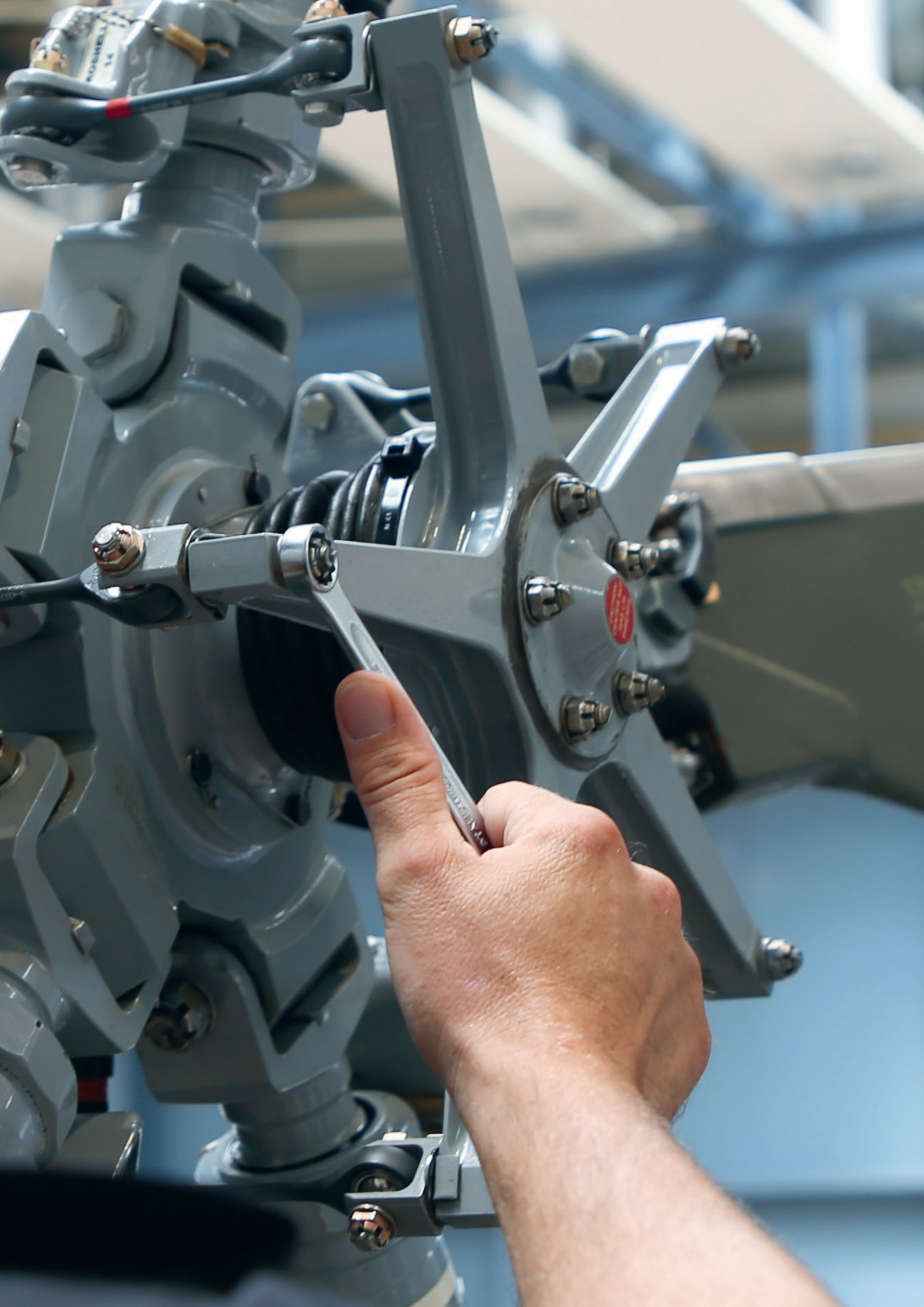
Code	g
96838796	908

No	Content
4026	sizes 6; 8; 10

Tool Control System.
Safety-conscious inlays.



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





3 SOCKET SETS AND SOCKETS

1/4"-drive
➤➤ Page 68



3/8"-drive
➤➤ Page 78



1/2"-drive
➤➤ Page 86



3/4"-drive
➤➤ Page 97



1"-drive
➤➤ Page 98



CROW-RING-, CROW-FOOT spanners,
adaptors
➤➤ Page 98



Empty boxes and trays
➤➤ Page 100



Reliable and safe. Sets of socket spanners and inserts.



It does not matter whether it is ratchets, adapters or inserts – users can be sure they will get premium quality every time. STAHLWILLE tool cases made of robust ABS plastic facilitate everyday work thanks to their low weight and many well thought-out details. STAHLWILLE sockets are made of HPQ® high-performance steel and are extremely resilient but thin-walled and gentle on fastener heads. And the broad range of ratchets, drives and adapters always ensures the perfect choice of tools for the job.

3



UNMISTAKEABLE.

The laser-cut map on the inside of the lid provides an excellent overview of the tools contained in the case.



RESILIENT.

High Performance Quality (HPQ®) High-performance steel – extremely resilient, yet thin-walled and ideal for working in confined spaces.

ROBUST.

Particularly resilient to loads thanks to the torsion resistant body construction and hard-wearing ABS plastic.

SAFE.

A high-grade, chemical-resistant hard-foam inlay ensures tools are held firmly in place. The catches are easy to operate but still secure.

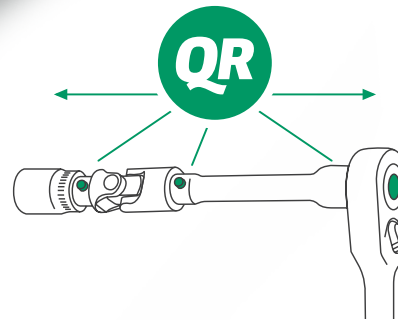


GENTLE.

The special AS Drive* permits high transmission of forces to the flats of nuts and bolts without damaging them.

* Anti-Slip drive





FAST.

QuickRelease enables rapid tool changes and secures them reliably during work operations.



FOD* COMPLIANT.

The preferred choice in safety-relevant fields such as aerospace, thanks to the screwless design.

* Foreign Object Damage



EFFICIENT.

Eighty teeth provide a ratchet angle of only 4.5° - facilitating efficient working in confined spaces. In contrast to conventional fine-tooth ratchets, no less than eight teeth engage at once here, ensuring maximum load capacity and, at the same time, smooth action and durability.



VERSATILE.

The STAHLWILLE fine tooth ratchet family has convincing features: the 2-component or steel-handled grip, the bit ratchet, fine-tooth flexible-joint ratchet or the Hi-Lok version.



Socket sets and sockets

6,3
1/4"

DIN
3120

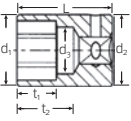
ISO
1174-1

3

40aD Sockets



- 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	Δ	g	
01530010	5/32	6.7	10.7	3.2	23	3.5	15	7	10	
01530012	3/16	7.6	10.7	4	23	4.5	15	7	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	8	10	
01530018	9/32	10.7	10.7	6.6	23	6.5	13.2	8	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	26	10	
01530034	9/16	18.8	18.8	13.1	24	10	14.7	30	10	

40aD/10CL Set sockets with clip strip



- content 10 pieces: 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

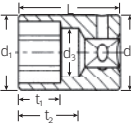


Code	Δ	g
96015310		200

40a Sockets



- ASME B 107.1, Fed. Spec. GGG-W-641, SAE AS 954-E (test loads)
- HPQ® high performance steel, chrome plated

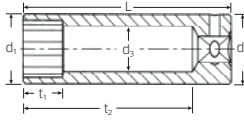


Code	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δ	g	
01410008	1/8	5.6	10.7	2.5	23	2	15	7	10	
01410010	5/32	6.7	10.7	3.2	23	3.5	15	9	10	
01410012	3/16	7.6	10.7	4	23	4.5	15	9	10	
01410014	7/32	8.6	10.7	5	23	6	15	9	10	
01410016	1/4	9.4	10.7	5.5	23	6	15	9	10	
01410018	9/32	10.7	10.7	6.6	23	6.5	13.2	10	10	
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	15	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	

40aDL Sockets



- extra deep
- ASME B 107.1, Fed. Spec. GGG-W-641, SAE AS 954-E
- 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	
01640010	5/32	6.7	10.7	3.2	50	4.5	42	13	5	
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	55	5	

40aDL/7 Set sockets



- extra deep
- content 7 pieces: 3/16; 1/4; 5/16; 3/8; 7/16; 1/2; 9/16"
- packed in carton



Code	Δ	g
96016401		241

STAHLWILLE
AS drive



STAHLWILLE sockets are equipped with the AS Drive* profile, which permits high transmission of forces to the flats of nuts and bolts without damaging them.

* Anti-Slip drive

40aDL/10CL Set sockets with clip strip



- content 10 pieces: 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

402a/5 Set UNIFLEX sockets



- Content 5 pieces:
No 402a: 1/4; 5/16; 3/8; 7/16; 1/2"



Code	Δ g
96015401	101

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

402aK UNIFLEX sockets



- short version
- 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	
01541024	3/8	13.6	12.7	6.7	34	9.1	12.0	19	5
01541034	9/16	19	12.7	13.1	37.5	10.3	11.8	25	5

402a UNIFLEX sockets



- SAE AS 954, ASME B 107.1
- 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	
01540014	7/32	8.6	12.7	4.8	32	5.5	10	17	5
01540016	1/4	9.6	12.7	5.2	32	5.5	10	16	5
01540018	9/32	11	12.7	6.4	32	6.5	10	19	5
01540020	5/16	11.6	12.7	6.7	35	8	13	17	5
01540022	11/32	12.7	12.7	8	35	7.5	11.5	19	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

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	Δ 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	10	10
01270010	E10	9.4	12.7	12.7	5.6	23	9	15	17	10

6,3
1/4"

DIN
3120

ISO
1174-1

3

Socket sets and sockets

6,3
1/4"

DIN
3120

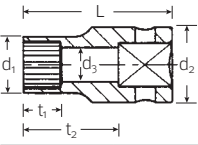
ISO
1174-1

3

40aSP Sockets

HPQ

- for external spline-drive screws
- MS-33787, MIL-W-8982
- HPQ® high performance steel, chrome plated

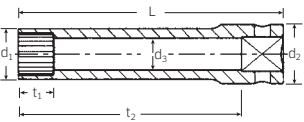


Code	Spline size	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
01011007	7	7/32	8.6	10.7	5	22.2	6	14.2	7	1
01011008	8	1/4	9.5	10.7	5.6	22.2	7	14.2	10	1
01011009	9	9/32	11.2	11.2	6.6	22.2	8	12.4	10	1
01011010	10	5/16	11.6	11.6	7.1	22.2	8	12.2	12	1
01011012	12	3/8	13.8	13.8	8.6	23	8.7	12.6	18	1
01011014	14	7/16	15.7	15.7	10.4	25	10.7	14.1	24	1

40aLSP Sockets

HPQ

- for external spline-drive screws
- long, extra deep bolt clearance
- MS-33787, MIL-W-8982
- HPQ® high performance steel, chrome plated

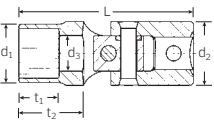


Code	Spline size	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
01021007	7	7/32	8.6	10.7	5	50.8	6	42.8	18	1
01021008	8	1/4	9.5	10.7	5.6	50.8	8	42.8	24	1
01021010	10	5/16	11.6	11.6	7.1	50.8	8	40.8	27	1

402aSP Uniflex sockets

HPQ

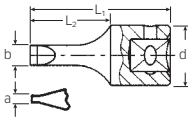
- for external spline-drive screws
- MS-33787, MIL-W-8982
- HPQ® high performance steel, chrome plated



Code	Spline size	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
01542016	8	1/4	9.5	12.7	5.6	32	6.4	9.8	16	5
01542020	10	5/16	11.6	12.7	7.1	35	8	13	18	5

41K Screwdriver sockets

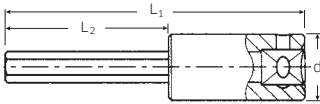
- for slotted screws
- blades to DIN 5264
- Chrome Alloy Steel, chrome plated



Code	mm	L ₁ mm	L ₂ mm	d mm	a mm	b mm	g	
01280006	0.6x3.5	28	16	11.6	0.6	3.5	10	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

44a INHEX sockets

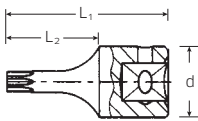
- for socket head screws
- DIN 7422
- Chrome Alloy Steel, chrome plated



Code	"	L ₁ mm	L ₂ mm	d mm	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

44KTX Screwdriver sockets

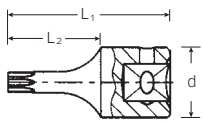
- for inside TORX® screws
- Chrome Alloy Steel, chrome plated



Code	size	mm	L ₁ mm	L ₂ mm	d mm	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	12	5
01350040	T40	6.6	28	16	11.6	12	5

44KTXB Screwdriver sockets

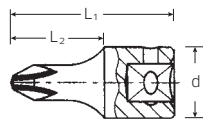
- with hollow point
- for inside TORX® screws (TORX® TAMPER RESISTANT)
- Chrome Alloy Steel, chrome plated



Code	size	mm	L ₁ mm	L ₂ mm	d mm		
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	10	5
01351030	T30	5.5	28	16	11.6	11	5
01351040	T40	6.6	28	16	11.6	10	5

44P Screwdriver sockets

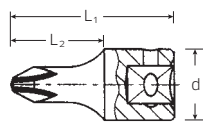
- for recessed head screws Phillips-Recess®
- tips to DIN 5260
- Chrome Alloy Steel, chrome plated



Code	PH size	L ₁ mm	L ₂ mm	d mm		
01290001	1	28	16	11.6	12	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		
01300001	1	28	16	11.6	10	5
01300002	2	28	16	11.6	11	5

40CL Clip strips

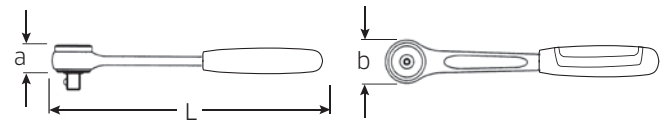
- for socket retention
- supplied without sockets



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

Drive tools and accessories

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



411 Ratchet, fine tooth

- reversible
- 60 teeth
- with 2-component handle
- for use in confined spaces, re-engages after movement of 6°
- DIN 3122/ISO 3315



Code	L mm	b mm	a mm		
11231011	118	24	19.5	100	1

415 Ratchet

- reversible
- 22 teeth
- with 2-component handle
- DIN 3122/ISO 3315



Code	L mm	b mm	a mm		
1111010	117	22	13	80	5

415QR QuickRelease ratchet

- reversible
- 22 teeth
- with QuickRelease safety lock
- with 2-component handle
- DIN 3122/ISO 3315
- registered design



Code	L mm	b mm	a mm		
11110020	117	22	13	79	1

415QR N QuickRelease ratchet, fine tooth

- reversible
- 80 teeth
- with QuickRelease safety lock
- with 2-component handle
- for use in confined spaces, re-engages after movement of 4.5°
- construction without screws prevents foreign object damage
- DIN 3122/ISO 3315
- registered design



Code	L mm	b mm	a mm		
1111020	117	22.6	10.7	79	1

Socket sets and sockets

6,3
1/4"

DIN
3120

ISO
1174-1

415SG-QR N QuickRelease ratchet, fine tooth



- reversible
- 80 teeth
- with QuickRelease safety lock
- with steel handle
- for use in confined spaces, re-engages after movement of 4.5°
- construction without screws prevents foreign object damage
- DIN 3122/ISO 3315
- registered design



Code	L mm	b mm	a mm	g	g
11 11 10 30	117	22.6	10.7	86	1

418QR Mini QuickRelease ratchet, fine tooth



- 90 mm short version
- reversible
- 80 teeth
- with QuickRelease safety lock
- with steel handle
- for use in confined spaces, re-engages after movement of 4.5°
- construction without screws prevents foreign object damage
- DIN 3122/ISO 3315
- registered design



NEW

Code	L mm	b mm	a mm	g	g
11 11 10 50	90	22.5	12.2	74	1

415QRL N QuickRelease ratchet, fine tooth



- long
- reversible
- 80 teeth
- with QuickRelease safety lock
- with 2-component handle
- for use in confined spaces, re-engages after movement of 4.5°
- construction without screws prevents foreign object damage
- DIN 3122/ISO 3315
- registered design



Code	L mm	b mm	a mm	g	g
11 11 10 40	153	22.6	10.7	94	1

415B Bit ratchet

- reversible
- 22 teeth
- with 2-component handle
- with inside hexagon 1/4"
- DIN 3126/ISO 1173 D 6.3
- for bit screwdriver sockets 1/4"
- 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
11 13 10 11	117	22	12	76	5

415SGB N Bit ratchet, fine tooth



- reversible
- 80 teeth
- with steel handle
- inside hexagon 1/4"
- DIN 3126/ISO 1173 D 6.3
- for bit screwdriver sockets 1/4"
- internal hex drive with a collar-thrust spring
- 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)
- for use in confined spaces, re-engages after movement of 4.5°
- construction without screws prevents foreign object damage



Code	L mm	b mm	a mm	g	g
11 13 20 20	117	22.6	10.7	85	5

418B Mini bit ratchet, fine tooth



- 90 mm short version
- reversible
- 80 teeth
- with steel handle
- inside hexagon 1/4"
- DIN 3126/ISO 1173 D 6.3
- for bit screwdriver sockets 1/4"
- internal hex drive with a collar-thrust spring
- 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)
- for use in confined spaces, re-engages after movement of 4.5°
- construction without screws prevents foreign object damage



NEW

Code	L mm	b mm	a mm	g	g
11 13 30 30	90	22.5	11	70	1

416QR QuickRelease fine-tooth flexible-joint ratchet



- reversible
- 80 teeth
- with QuickRelease safety lock
- with 2-component handle
- handle may be raised or lowered by approx. 90°, lockable in following positions:
 - straight
 - 30° up
 - 60° up
 - 30° down
- release the lock by pressing the button in the handle
- for use in confined spaces, re-engages after movement of 4.5°
- construction without screws prevents foreign object damage
- DIN 3122/ISO3315
- registered design



Code	L mm	b mm	a mm	g	g
11 26 10 10	170	22.5	12	170	1

415QR N/7 Set of wrenches



- in sturdy, stackable ABS plastic case
- Content 7 pieces:
 1 ratchet No 415QR N
 3 extensions
 No 405QR/2 (54 mm),
 No 405QR/4 (102 mm),
 No 405QR/6 (150 mm)
 1 universal joint No 407QR
 1 drive handle No 400QR
 1 T-handle No 404QR



Code	♻️ g
96014010	758

4110 Spare parts set for ratchet No 411

- Content 7 pieces:
 1 pinion; 1 pawl; 1 switching disk; 1 spring; 3 screws

Code	♻️ g
19200001	47

4150 Spare parts set for ratchet No 415

- Content 9 pieces:
 1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs;
 2 screws M 1.7 x 8; 1 cover plate

Code	♻️ g
19010000	26

4150QR Spare parts set for ratchet No 415QR



- Content 11 pieces:
 1 pinion; 1 pawl; 2 levers with pin; 1 ball; 2 compression springs;
 2 screws M 1.7 x 8; 2 cover plates

code	♻️ g
19011020	24

4150QR N Spare parts set for ratchet No 415QR N, 415QRL N, 415SG-QR N, 416QR, 418QR



- Content 9 pieces:
 1 pinion; 1 locking disc; 1 lever; 1 pin; 1 ball; 1 compression spring;
 2 circlips; 1 cover plate

Code	♻️ g
19012020	21

4150B Spare parts set for ratchet No 415B

- Content 9 pieces:
 1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs;
 2 screws M 1.7 x 8; 1 cover plate

Code	♻️ g
19010011	20

4151 Spare parts set for ratchet No 415SGB N



- Content 9 pieces:
 1 pinion; 1 locking disc; 1 lever; 1 pin; 1 ball; 1 compression spring;
 2 circlips; 1 cover plate

Code	♻️ g
19010012	22

400 Drive handle

- DIN 3122/ISO 3315



Code	L mm	♻️ g	
11050010	150	70	5

400QR QuickRelease drive handle



- DIN 3122/ISO 3315
- with QuickRelease safety lock
- patent



Code	L mm	♻️ g	
11051010	150	80	1

400 Drall Drive handle

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



Code	L mm	♻️ g	
11050011	150	105	5

401 Drive handle

- flexible shaft (right hand rotation only)
- maximum torque 5 N·m



Code	L mm	♻️ g	
11053002	240	130	5

Socket sets and sockets

6,3
1/4"

DIN
3120

ISO
1174-1

403 Flexible handle

- DIN 3122/ISO 3315
- with 2-component handle



Code	L mm	g	g	g
11061010	154.5	70	1	

404 Sliding T-handle

- DIN 3122/ISO 3315



Code	L mm	g	g	g
11070000	116	38	5	

404QR QuickRelease sliding T-handle

- with QuickRelease safety locks
- patent



Code	L mm	g	g	g
11071000	116	50	1	

413QR QuickRelease speeder brace

- with steel handle
- for greater axial power transmission, detachable palm head
- working radius 70 mm
- with QuickRelease safety lock
- patent



Code	L mm	g	g	g
11100005	440	354	1	

405 Extensions

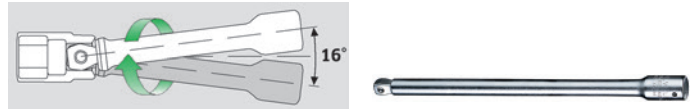
- DIN 3123/ISO 3316



Code	size	L mm	d mm	g	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

405W Wobble-Drive extensions

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



Code	size	L mm	d mm	g	g
11010011	2	54	11.6	28	1
11010016	4	100	11.6	45	1
11010012	6	150	11.6	55	1
11010020	10	254	11.6	110	1
11010024	14	356	11.6	155	1

405QR QuickRelease extensions

- patent
- DIN 3123/ISO 3316



Code	size	L mm	d mm	g	g
11011001	2	54	11.6	28	1
11011006	4	102	11.6	49	1
11011002	6	150	11.6	65	1
11011013	13	330	11.6	145	1
11011005	14	356	11.6	150	1

406 Extension, flexible

- right hand rotation only
- maximum torque 5 N·m



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

407 Universal joint

- DIN 3123/ISO 3316



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

407QR QuickRelease universal joint

- with QuickRelease safety lock
- patent



Code	L mm	g	g
11021000	45	35	1

5513 Set of adaptors

content 5 pieces:

- No 409, 1/4" socket x 3/8" plug
- No 431, 3/8" socket x 1/4" plug
- No 432, 3/8" socket x 1/2" plug
- No 513, 1/2" socket x 3/8" plug
- No 514, 1/2" socket x 3/4" plug



Code	Δ	g
96 12 1003	648	

409 Extending adaptor

HPQ

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



Code	L mm	d mm	Δ	g	☐
11030002	25	12.8	18	5	

409M/432M/514M/3 Set extending adaptors

content 3 pieces:

- 1/4" socket x 3/8" plug
- 3/8" socket x 1/2" plug
- 1/2" socket x 3/4" plug



Code	Δ	g
96 12 1002	120	

409M Extending adaptor

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



Code	L mm	∅ mm	Δ	g	☐
11030010	13	28	14	1	

410 Extending adaptor

HPQ

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



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

412 Bit holder

HPQ

- 1/4" inside hexagon
- DIN 3126/ISO 1173 D 6.3
- internal hex drive with a collar-thrust spring
- 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	Δ	g	☐
11 1800 10	25	11.6	14	5	

412-1 Bit holder

HPQ

- 1/4" inside hexagon
- DIN 3126/ISO 1173 D 6.3
- outer size of handle, octagon 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
- 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	∅ mm	L mm	d mm	Δ	g	☐
11 1800 20	10	20	11.6	11	5	

417/1 Locking adaptor

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



Code	L mm	d mm	Δ	g	☐
96 11 2701	42	13	23	1	

6,3
1/4"

DIN
3120

ISO
1174-1

3

Socket sets and sockets

6,3
1/4"

DIN
3120

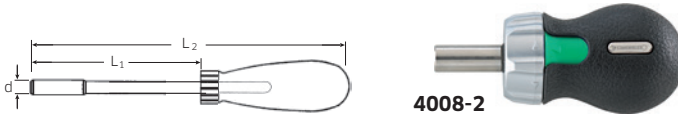
ISO
1174-1

4008 Ratcheting bit holder

- easy change of direction (anticlockwise, clockwise and fixed) by simply twisting the locking ring
- ergonomically designed, non-slip 2-component handle for optimum force transmission
- storage compartment for 6 bits in the handle; push button to open (size 1)
- for bit screwdriver inserts with external hex 1/4" DIN 3126/ISO 1173 Type C 6.3
- 1/4" sockets can be used with adaptor No 3115/1 (external hex and square drive 1/4")
- easy bit change thanks to internal hex. drive with magnet
- knurled spin section for faster screw advance
- heavy-duty mechanism with 48 teeth (7.5° working angle)



4008-1



4008-2

Code	size	Ø	"	L ₁ mm	L ₂ mm	d mm	g	⊞
18120001	1	D 6.3	1/4	127	250	10	220	1
18120002	2	D 6.3	1/4	25	95	10	137	1

inside Ø DIN 3126/ISO 1173

Tools for Hi-Lok bolts

40a/40aD/16/2

NEW

TCS

- for Hi-Lok bolts
- in sturdy, stackable ABS plastic case with TCS inlay

Content, 18 pieces:

- 5 sockets with bi-hexagon No 40aD: 1/4; 5/16; 11/32; 3/8; 7/16"
- 5 sockets with hexagon No 40a: 1/4; 5/16; 11/32; 3/8; 7/16"
- 1 Hi-Lok-extension No 414H (54 mm)
- 3 offset screwdrivers No 10759a/1: 3/32; 5/64; 1/16"
- 3 offset screwdrivers No 10759a/2: 3/32; 5/64; 1/16"
- 1 Hi-Lok-ratchet, fine tooth No 415SGH N



Code	g	⊞	⊞
96016304	685	1	

415SGH N Hi-Lok-ratchet, fine tooth

FCD 80 4.5°

- reversible
- 80 teeth
- patent
- axially drilled pinion, locking facility for sockets
- for use on Hi-Lok bolts in the aerospace industry
- for use in confined spaces, re-engages after movement of 4.5°
- construction without screws prevents foreign object damage



Code	L mm	b mm	a mm	g	⊞
11110010	117	22.6	10.7	88	5

4152 Spare parts set for ratchet No 415SGH N

NEW

Content 9 pieces:

- 1 pinion; 1 locking disc; 1 lever; 1 pin; 1 ball; 1 compression spring;
- 2 circlips; 1 cover plate

Code	g	⊞
19010013	21	

414H Hi-Lok extensions

- with lock-on facility as on ratchet No 415SGH N
- patent



Code	size	L mm	d mm	g	⊞
11240011	2	54	13	34	1
11240012	4	102	13	49	1
11240013	6	152	13	66	1

10759a Hi-Lok offset screwdrivers

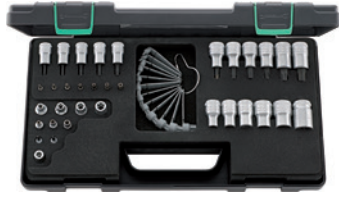
- with hexagon end for ratchet No 415SGH N
- round shaft on screwdriver enables locking of ball retainer
- patent

Code	size	⊞	L mm	g	⊞
43560004	1	1/16	50	5	5
43564004	2	1/16	100	8	5
43560005	1	5/64	50	5	5
43564005	2	5/64	100	8	5
43560006	1	3/32	50	5	5
43564006	2	3/32	100	8	5

3

89TX Socket set TORX® 1/4; 3/8; 1/2" □

- in sturdy, stackable ABS plastic case
- Content 35 pieces:
 - 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	ΔΔ g
9881 1908	2420

40TX/44KTX/15/6 Socket set TORX® 1/4" □

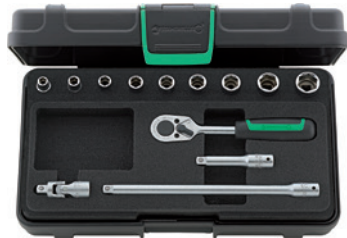
- in sturdy, stackable ABS plastic case
- Content 21 pieces:
 - 6 sockets for external TORX® screws No 40TX: sizes E4; E5; E6; E7; E8; E10
 - 9 screwdriver sockets for internal TORX® screws No 44KTX: sizes T8; T9; T10; T15; T20; T25; T27; T30; T40
 - 1 ratchet No 415
 - 2 extensions No 405/2 (54 mm),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



Code	ΔΔ g
9601 3701	850

40a/9/4 Socket set 1/4" □

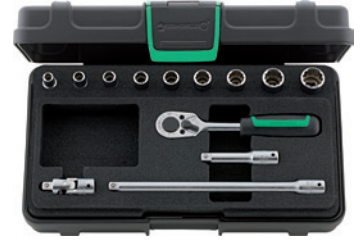
- in sturdy, stackable ABS plastic case
- Content 13 pieces:
 - 9 sockets with hexagon No 40a: 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2"
 - 1 ratchet No 415
 - 2 extensions No 405/2 (54 mm), No 405/6 (150 mm)
 - 1 universal joint No 407



Code	ΔΔ g
9601 5107	702

40aD/9/4 Socket set 1/4" □

- in sturdy, stackable ABS plastic case
- Content 13 pieces:
 - 9 sockets with bi-hexagon No 40aD: 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
9601 6302	700

40aD/12/7QR Socket set 1/4" □

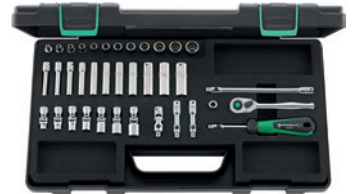
- in sturdy, stackable ABS plastic case
- Content 19 pieces:
 - 1 socket with hexagon No 40a: 1/8"
 - 11 sockets with bi-hexagon No 40aD: 5/32; 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
 - 1 ratchet No 415SG-QR
 - 3 extensions No 405QR/2 (2x) (54 mm), No 405QR/6 (150 mm)
 - 1 universal joint No 407QR
 - 1 drive handle No 400QR
 - 1 bit-holder No 412



Code	ΔΔ g
9601 5208	872

40aD/30/7QR Socket set 1/4" □

- in sturdy, stackable ABS plastic case
- Content 37 pieces:
 - 1 socket with hexagon No 40a: size 1/8"
 - 11 sockets with bi-hexagon No 40aD: 5/32; 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
 - 11 sockets with bi-hexagon, long No 40aDL: 5/32; 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
 - 7 UNIFLEX sockets with bi-hexagon No 402a: 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2"
 - 1 ratchet No 415SG-QR
 - 3 extensions No 405/2QR (2x) (54 mm), No 405/6QR (150 mm)
 - 1 universal joint No 407QR
 - 1 drive handle No 400QR
 - 1 bit-holder No 412



Code	ΔΔ g
9601 5205	1920

Socket sets and sockets

10
3/8"

DIN
3120

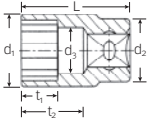
ISO
1174-1

3

45a Sockets

AS DRIVE HPQ

- ASME B 107.1, Fed. Spec. GGG-W-641, SAE AS 954-E (test loads)
- HPQ® high performance steel, chrome plated

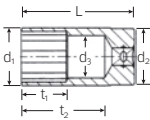


Code	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
02410016	1/4	9.7	16.5	5.2	24	6	12.5	18	10
02410020	5/16	11.7	16.5	7	25	7	13.5	19	10
02410022	11/32	12.5	16.5	8.1	25	7	13.5	19	10
02410024	3/8	13.7	16.5	8.4	27	8.5	15.5	20	10
02410028	7/16	15.7	16.5	10	28	9.5	15.1	20	10
02410032	1/2	18	17.5	11.5	30	11.5	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

46a Sockets

AS DRIVE HPQ

- extra deep
- ASME B 107.1, Fed. Spec. GGG-W-641, SAE AS 954-E
- HPQ® high performance steel, chrome plated

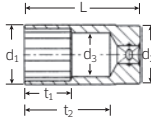


Code	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
02420016	1/4	9.7	16.5	5.2	54	9	42.5	33	5
02420020	5/16	11.7	16.5	7	54	9	42.5	35	5
02420022	11/32	12.5	16.5	8.1	54	9	42.5	186	5
02420024	3/8	13.7	16.5	8.4	54	20	42.5	45	5
02420028	7/16	15.7	16.5	10	54	20	40.7	53	5
02420032	1/2	18	17.5	11.5	54	20	40.2	64	5
02420034	9/16	20.2	19	13.1	60	25	45.8	80	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

460a Sockets

AS DRIVE HPQ

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

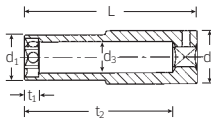


Code	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
02620016	1/4	9.9	16.5	5.2	32	7	20.5	21	5
02620020	5/16	11.5	16.5	7	32	8.5	20.5	22	5
02620024	3/8	13.7	16.5	8.5	38	9	26.5	29	5
02620028	7/16	15.7	16.5	10	38	11	24.5	33	5
02620032	1/2	17.5	17.8	11.5	44	12	30	44	5

3466 Spark plug socket

AS DRIVE HPQ

- extra deep
- with magnet
- HPQ® high performance steel, chrome plated

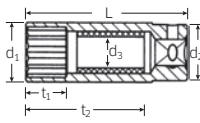


Code	mm/"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
02140036	16-5/8	21.8	25.5	15	85	7	72.9	180	5

4600 Spark plug socket

AS DRIVE HPQ

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

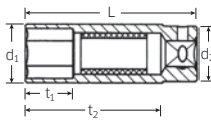


Code	mm/"	d ₁ mm	d ₂ mm	L mm	t ₁ mm	t ₂ mm	g	
02120036	16-5/8	21.7	19.5	60	15	47.8	84	10

4606 Spark plug socket

AS DRIVE HPQ

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



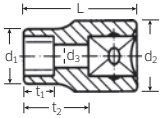
Code	mm/"	d ₁ mm	d ₂ mm	L mm	t ₁ mm	t ₂ mm	g	
02130018	18-11/16	24.2	22	65	18	52.8	132	10

assembly of spark plugs on motorcycles, mopeds

45TX Sockets

HPQ

- 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	Δg	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	30	10	
02270014	E14	12.9	16.5	17.3	8	28	10	16.5	34	10	

45TX/7 Set sockets

HPQ

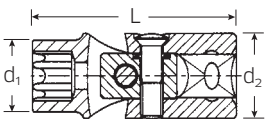
- for external TORX® screws
- packed in carton
- Content 7 pieces:
E5; E6; E7; E8; E10; E12; E14



Code	g
96022702	219

47TX UNIFLEX sockets

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



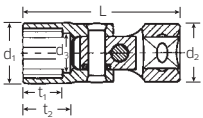
Code	size	mm	d ₁ mm	d ₂ mm	L mm	Δg	g	
02070008	E8	7.5	11.5	19	43	56	1	
02070010	E10	9.4	13.8	19	44	61	1	
02070012	E12	11.1	16	19	46	66	1	
02070014	E14	12.9	17.8	19	48	75	1	

47a UNIFLEX sockets

HPQ

AS

- SAE AS 954-E
- HPQ® high performance steel, chrome plated

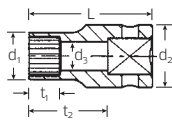


Code	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δg	g	
02440020	5/16	11.7	17.5	7	45.5	7	12.5	50	1	
02440024	3/8	13.7	17.5	8.5	45.5	7	12	50	1	
02440028	7/16	15.8	17.5	10	47.5	11	14	50	1	
02440032	1/2	18.3	17.5	11.5	47.5	11.5	14	57	1	
02440034	9/16	19.7	17.5	13.1	48.5	13	14.5	55	1	
02440036	5/8	21.6	17.5	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	

45aSP Sockets

HPQ

- for external Spline-Drive screws
- MS-33787, MIL-W-8982
- HPQ® high performance steel, chrome plated

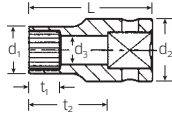


Code	Spline size	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δg	g	
02011012	12	3/8	13.7	16.5	8.6	26.5	9	15	24	1	
02011014	14	7/16	16	17.3	10.4	28	11	14.5	37	1	
02011016	16	1/2	18	18.3	12.2	28	11.5	14	28	1	

45aPSP Socket

HPQ

- for external Spline-Drive screws
- MS-33787, MIL-W-8982
- for disassembling jet engines, series CFM 56
- HPQ® high performance steel, gunmetal finish

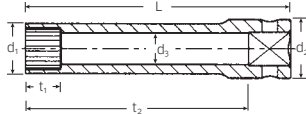


Code	Spline size	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δg	g	
22410028	14	7/16	18.8	18.8	10.4	28	11	14.5	36	10	

46aSP Sockets

HPQ

- for external Spline-Drive screws
- extra deep
- bolt clearance
- MS-33787, MIL-W-8982
- HPQ® high performance steel, chrome plated



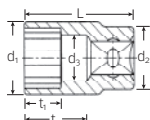
Code	Spline size	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₂ mm	Δg	g	
02021012	12	3/8	13.7	16.5	8.6	54	42.5	52	1	
02021014	14	7/16	16	17.3	10.4	54	42.5	63	1	

45aP Socket

AS

HPQ

- ASME B 107.1, Fed. Spec. GGG-W-641, SAE AS 954-E (test loads)
- for disassembling jet engines, series CFM 56
- HPQ® high performance steel, gunmetal finish



Code	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	Δg	g	
02430020	5/16	11.9	16.5	8.1	25	7	13.5	19	10	

10
3/8"

DIN
3120

ISO
1174-1

3

Socket sets and sockets

10
3/8"

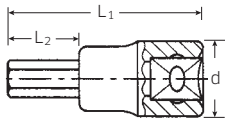
DIN
3120

ISO
1174-1

3

49a INHEX sockets

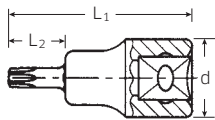
- for socket head screws
- DIN 7422
- Chrome Alloy Steel, chrome plated



Code	"	L ₁ mm	L ₂ mm	d mm	△ g	☐
02 45 00 08	1/8	52	20	17.8	39	5
02 45 00 09	9/64	52	20	17.8	40	5
02 45 00 10	5/32	52	20	17.8	40	5
02 45 00 12	3/16	52	20	17.8	44	5
02 45 00 14	7/32	52	20	17.8	46	5
02 45 00 16	1/4	52	20	17.8	48	5
02 45 00 20	5/16	52	20	17.8	55	5
02 45 00 24	3/8	52	20	17.8	61	5

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

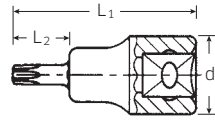
- for inside TORX® screws
 - packed in carton
- Content 8 pieces:
No 49TX: T9; T10; T15; T20; T25; T27; T30; T40



Code	△ g
9602 1001	456

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	☐
0206 00 05	M5	52	20	17.8	45	5
0206 00 06	M6	52	20	17.8	47	5
0206 00 08	M8	52	20	17.8	56	5
0206 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	☐
0226 12 06	M6	120	88	17.8	72	1
0226 12 08	M8	120	88	17.8	80	5
0226 12 10	M10	120	88	17.8	106	5

45CL Clip strips

- for socket retention
- supplied without sockets



Code	size	L mm	△ g
8045 00 01	1	200	40
8045 00 02	2	300	58

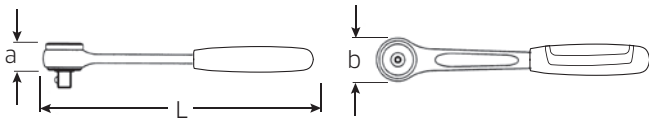
STAHLWILLE
High Performance Quality.



High Performance Quality (HPQ®) high-performance steel - extremely resilient, yet thin-walled and ideal for working in confined spaces.

Drive tools and accessories

- 3/8" □
- finish: Chrome Alloy Steel, chrome plated



422 Ratchet, fine tooth

- reversible
- 60 teeth
- with 2-component handle
- for use in confined spaces, re-engages after movement of 6°
- DIN 3122/ISO 3315



Code	L mm	b mm	a mm	g	☐
1223 1011	194	32	24	236	1

435 Ratchet

- reversible
- 30 teeth
- with 2-component handle
- DIN 3122/ISO 3315



Code	L mm	b mm	a mm	g	☐
1211 1010	193	29	18	235	5

435QR QuickRelease ratchet

- reversible
- 30 teeth
- with QuickRelease safety lock
- with 2-component handle
- DIN 3122/ISO 3315



Code	L mm	b mm	a mm	g	☐
1211 0020	193	29	18	244	1

435QR N QuickRelease ratchet, fine tooth

- reversible
- 80 teeth
- with QuickRelease safety lock
- with 2-component handle
- for use in confined spaces, re-engages after movement of 4.5°
- construction without screws prevents foreign object damage
- DIN 3122/ISO 3315
- registered design



Code	L mm	b mm	a mm	g	☐
1211 1020	193	30	15	235	1

435SG-QR N QuickRelease ratchet, fine tooth



- reversible
- 80 teeth
- with QuickRelease safety lock
- with steel handle
- for use in confined spaces, re-engages after movement of 4.5°
- construction without screws prevents foreign object damage
- DIN 3122/ISO 3315
- registered design



Code	L mm	b mm	a mm	g	☐
1211 1030	193	30	15	272	1

452QR QuickRelease fine-tooth flexible-joint ratchet



- reversible
- 80 teeth
- with QuickRelease safety lock
- with 2-component handle
- handle may be raised or lowered by approx. 90°, lockable in following positions:
 - straight
 - 30° up
 - 60° up
 - 30° down
- release the lock by pressing the button in the handle
- for use in confined spaces, re-engages after movement of 4.5°
- construction without screws prevents foreign object damage
- DIN 3122/ISO3315
- registered design



Code	L mm	b mm	a mm	g	☐
1226 1010	300	28.2	14.5	350	1

445 Ratchet adaptor

- reversible
- 20 teeth



Code	L mm	∅ mm	g	☐
1214 0000	43	30	135	1

435QR N/6 Set of wrenches



- in sturdy, stackable ABS plastic case
- Content 6 pieces:
 1 ratchet No 435QR N
 3 extensions
 No 427QR/3 (76 mm),
 No 427QR/6 (160 mm), No 427QR/10 (240 mm)
 1 universal joint No 428QR
 1 T-handle No 425QR



Code	g
9602 4010	1375

10
3/8"

DIN
3120

ISO
1174-1

3

Socket sets and sockets


10
3/8"

DIN
3120

ISO
1174-1


7350/5 Spare parts set for ratchet No 422

Content 7 pieces:
1 pinion; 1 pawl; 1 switching disk; 1 spring; 3 screws

Code		g
5925 1005		85

4350 Spare parts set for ratchet No 435

Content 8 pieces:
1 pinion, 1 pawl, 1 lever with pin, 1 ball, 2 compression springs, 2 screws

Code		g
19020000		50

4350QR Spare parts set for ratchet No 435QR

QR

Content 8 pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 screws

code		g
19020020		51

4350QR N Spare parts set for ratchets No 435QR N, 435SG-QR N, 452QR

QR



Content 9 pieces:
1 pinion; 1 locking disc; 1 lever; 1 pin; 1 ball; 1 compression spring; 2 circlips; 1 cover plate

code		g
1902 1020		48

421 Speeder brace

- working radius 85 mm
- DIN 3122/ISO 3315





Code	L mm		g	
12 1000 10	386.5		385	5

453QR QuickRelease speeder brace

QR

- with steel handle
- for greater axial power transmission, detachable palm head
- working radius 85 mm
- DIN 3122/ISO 3315
- with QuickRelease safety lock
- patent





Code	L mm		g	
12 100005	408		650	1

424 Flexible handle

- DIN 3122/ISO 3315
- with 2-component handle





Code	L mm		g	
1206 10 10	253.5		222	1

425 Sliding T-handle

- DIN 3122/ISO 3315





Code	L mm		g	
12070000	165		130	5

425QR QuickRelease sliding T-handle

QR

- with QuickRelease safety lock
- patent





Code	L mm		g	
1207 1000	165		148	1

427 Extensions

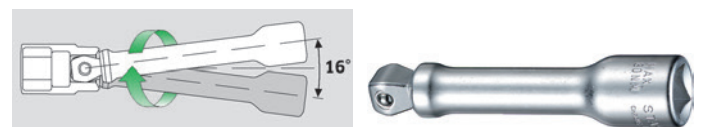
- DIN 3123/ISO 3316





Code	size	L mm	d mm		g	
12010005	1.5	38	17		36	5
12010001	3	76	17		69	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

427W Wobble-Drive extensions

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



Code	size	L mm	d mm		g	
12010007	3	76	17		67	5
12010008	5	125	17		104	5
12010009	6	160	17		127	5

427QR QuickRelease extensions

QR

- patent
- DIN 3123/ISO 3316



Code	size	L mm	d mm	g	g	g
12011001	3	76	17	66	1	1
12011002	6	160	17	127	1	1
12011003	10	240	17	185	1	1

433/1 Locking adaptor

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



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

434 Extension, flexible

- right hand rotation only
- maximum torque 7 N-m



Code	L mm	d mm	g	g	g
12040000	194	14	109	5	5

1225 Special extension

- offset



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

13220 Special extension

- for removing boroscope plugs
- with boroscope plug locking
- external hexagon 16 mm



Code	L mm	g	g	g
12270020	355	330	1	1

428 Universal joint

- DIN 3123/ISO 3316

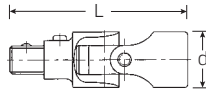


Code	L mm	d mm	g	g	g
12020000	46	18.8	55	5	5

428QR QuickRelease universal joint

QR

- patent
- DIN 3123/ISO 3316
- with QuickRelease safety lock



Code	L mm	d mm	g	g	g
12021000	60	19	66	1	1

5513 Set of adaptors

content 5 pieces:

- No 409, 1/4" socket x 3/8" plug
- No 431, 3/8" socket x 1/4" plug
- No 432, 3/8" socket x 1/2" plug
- No 513, 1/2" socket x 3/8" plug
- No 514, 1/2" socket x 3/4" plug



Code	g	g
96121003	648	

431 Reducing adaptor

HPQ

- 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	g	g
12030001	28	17.2	26	5	5

432 Extending adaptor

HPQ

- 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	g	g
12030003	31	17.2	36	5	5

409M/432M/514M/3 Set extending adaptors

content 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
96121002	120	

Socket sets and sockets

10
3/8"

DIN
3120

ISO
1174-1

432M Extending adaptor

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



Code	L mm	∅ mm	g	
12030010	16	32	22	1

442 Bit holder

- ∅ 1/4" inside hexagon
- DIN 3126/ISO 1173 D 6.3
- internal hex drive with a collar-thrust spring
- 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	
12180026	32	16.5	30	5

443 Bit holder

- ∅ 5/16" inside hexagon
- DIN 3126/ISO 1173 D 8
- internal hex drive with a collar-thrust spring
- 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	
12180030	32	16.5	39	5

45TX/49TX/15/5 Socket set TORX® 3/8"

- in sturdy, stackable ABS plastic case

Content 20 pieces:

7 sockets for external TORX® screws No 45TX: sizes E5; E6; E7; E8; E10; E12; E14

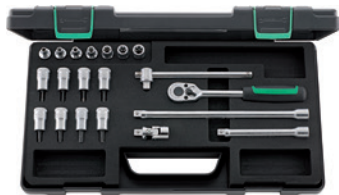
8 screwdriver sockets for internal TORX® screws No 49TX: sizes T9; T10; T15; T20; T25; T27; T30; T40

1 ratchet No 435

2 extensions No 427/5 (125 mm), No 427/10 (240 mm)

1 universal joint No 428

1 T-handle No 425



Code	g
96023703	2222

89TX Socket set TORX® 1/4; 3/8; 1/2"

- in sturdy, stackable ABS plastic case

Content 35 pieces:

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

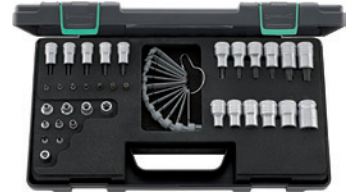
6 sockets for external TORX® screws No 50TX: sizes E11; E14; E16; E18; E20; E24

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
98811908	2420

45a/12/5 Socket set 3/8"

- in sturdy, stackable ABS plastic case

Content 17 pieces:

11 sockets with bi-hexagon No 45a: 1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16"

1 socket with bi-hexagon, long, with rubber insert

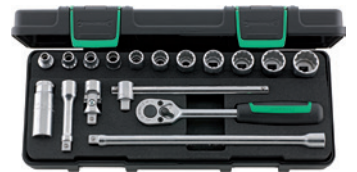
No 4600: size 16 mm - 5/8"

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	g
96025204	1652

45a/14/8QR Socket set 3/8"

QR

- in sturdy, stackable ABS plastic case

Content 22 pieces:

14 sockets with bi-hexagon No 45a: 1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8; 15/16; 1"

1 ratchet No 435SG-QR

3 extensions No 427/3QR (76 mm), No 427/6QR (160 mm), No 427/10QR (240 mm)

1 universal joint No 428QR

2 bit-holders No 442, No 443

1 speeder brace No 453



Code	g
96025206	3272

45a/33/13 Socket set 3/8"

• in sturdy sheet steel case

Content 46 pieces:

10 sockets with bi-hexagon No 45a:

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: 16 mm - 5/8", No 46: 20.8 mm - 13/16"

7 sockets with bi-hexagon, long No 46a: 3/8; 7/16; 1/2; 9/16; 11/16; 3/4; 7/8"

7 UNIFLEX sockets with bi-hexagon No 47a: 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4"

3 INHEX sockets No 49a: 1/8; 5/32; 3/16"

4 bits 1231: PH1; 1232: PH2; 1233: PH3; 1234: PH4

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 extending 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



45a/22/8QR Socket set 3/8"

QR

• in sturdy, stackable ABS plastic case

Content 30 pieces:

14 sockets with bi-hexagon No 45a:

1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8; 15/16; 1"

8 UNIFLEX sockets with bi-hexagon No 47a: 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4"

1 ratchet No 435SG-QR

3 extensions No 427/3QR (76 mm), No 427/6QR (160 mm), No 427/10QR (240 mm)

1 universal joint No 428QR

2 bit-holders No 442, No 443

1 speeder brace No 453



Code	Δ
96025207	g 3685

Code	Δ
96024113	g 6540

10
3/8"

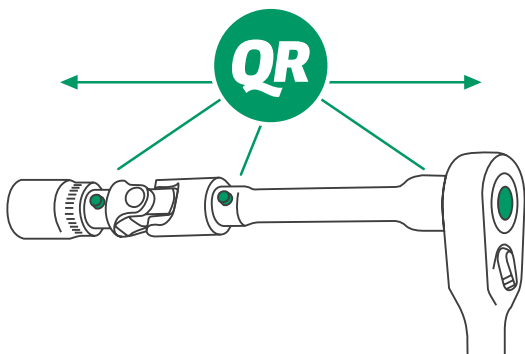
DIN
3120

ISO
1174-1

3

QuickRelease safety lock.

Fast and safe.



The QuickRelease technology ensures tools cannot be inadvertently lost - while enabling rapid, safe tool changes.

Socket sets and sockets

12,5
1/2"

DIN
3120

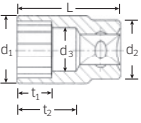
ISO
1174-1

3

50a Sockets

AS drive HPQ

- 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	⚖ g	📦
03410024	3/8	14.3	22	8.3	38	9	22	51	10
03410028	7/16	16.3	22	9.9	38	9	22	52	10
03410032	1/2	18.3	22	11.5	38	13	22	53	10
03410034	9/16	20.3	22.7	13.1	38	13	20.2	58	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	65	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	170	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	325	5

TCS 50a/17



TCS



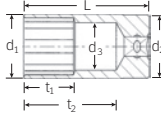
- 175 x 350 x 40 mm
- 17 pieces

Code	No	Content	⚖ g
96838780	50a	1/2" ⌀ 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"	1685

51a Sockets

AS drive HPQ

- extra deep
- ASME B 107.1, Fed. Spec. GGG-W-641, SAE AS 954-E
- HPQ® high performance steel, chrome plated

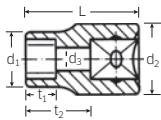


Code	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	⚖ g	📦
03420024	3/8	14.3	22	8.3	83	19	67	93	5
03420028	7/16	16.3	22	9.9	83	19	67	102	5
03420032	1/2	18.3	22	11.5	83	35	67	122	5
03420034	9/16	20.3	22.7	13.1	83	35	65.2	131	5
03420036	5/8	22.4	23.7	15	83	35	64.6	135	5
03420038	11/16	24.2	23.7	16.5	83	35	64.2	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	200	5
03420046	15/16	32	30	22.6	83	35	65.7	281	5
03420048	1	33.7	32	24.2	83	35	65	260	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	300	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	340	5
03420058	1 5/16	41.8	40	32.1	83	35	62.7	375	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

50TX Sockets

HPQ

- 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	📦	
03270010	E10	9.4	13	22	5.6	38	9.5	22	55	10
03270011	E11	10.1	14	22	6	38	9.5	22	55	10
03270012	E12	11.1	14.9	22	7.2	38	9.5	22	60	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	123	10

50TX/7 Set sockets

HPQ

- for external TORX® screws
- in carton packing

Content 7 pieces:

No 50TX: E10; E12; E14; E16; E18; E20; E24



Code	⚖ g
96032703	623

50TX/8

HPQ

- for external TORX® screws
 - in sturdy, stackable ABS plastic case
- Content 8 pieces:
No 50TX: E10; E11; E12; E14; E16;
E18; E20; E24



Code		g
96033704		980

TCS 50TX/54TX/17



TCS

- 175 x 350 x 40 mm
- 17 pieces



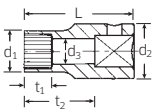
Code		g
96838763		1415

	No	Content
	50TX	1/2" sizes E10; E11; E12; E14; E16; E18; E20; E24
	54TX	1/2" sizes T20; T25; T27; T30; T40; T45; T50; T55; T60

50aPSP

HPQ

- for external Spline-Drive screws
- MS-33787
- HPQ® high performance steel, gunmetal finish

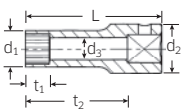


Code	Spline size		d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm		g	
03012024	12	3/8	15.5	22	8.6	38	9.5	22	55	5	
03012028	14	7/16	18	23.7	10.4	38	11	22	65	5	
03012034	18	9/16	22	23.7	13.5	38	12	20	71	5	

50aPLSP

HPQ

- for external Spline-Drive screws
- extra deep
- bolt clearance
- MS-33787
- HPQ® high performance steel, gunmetal finish

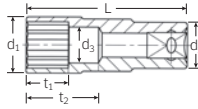


Code	Spline size		d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm		g	
03013028	14	7/16	18	23.7	10.4	50	11	34	83	5	

51aP

HPQ

- extra deep
- bolt clearance
- for the brakes on A320/A321
- HPQ® high performance steel, gunmetal finish



Code		d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm		g	
03421041	25/32	28	23	17.9	80	21	36	182	1	

54a

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

Code		L ₁ mm	L ₂ mm	d mm		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	90	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	

12,5
1/2"

DIN
3120

ISO
1174-1

3

Socket sets and sockets

12,5
1/2"

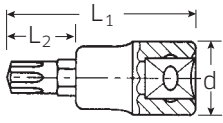
DIN
3120


ISO
1174-1

3

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	Δ g	
03090005	M5	60	22	22.7	69	5
03090006	M6	60	22	22.7	71	5
03090007	M7	60	22	22.7	70	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	125	5
03090014	M14	60	20	23.7	126	5
03090016	M16	63	23	27.5	163	5

Application:

M7, for brakes, cylinder head screws, bodywork and motor jobs incl. valve covers and spark plug covers on Fiat vehicles
 M8, bodywork and motor jobs incl. valve covers and spark plug covers on Fiat vehicles
 M9, brakes, cylinder head screws (1.2 l; 8V/16V) on Fiat vehicles
 M10, for cylinder head screws (1.2 l; 8V/16V) on Fiat vehicles
 M12 for cylinder head screws on Fiat 2.0 l engines
 M13, for brakes, cylinder head screws on Fiat vehicles; cylinder head screws on Alfa vehicles, e.g. 1.6 l; 16V engines
 M14; M16, for cylinder head screws on Alfa vehicles, e.g. 1.6 l; 16V engines

54CV/9 Set screwdriver sockets

- for spline socket head screws (Ribe-CV®)
- in sturdy, stackable ABS plastic case

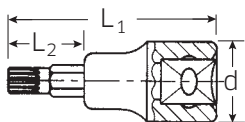
Content 9 pieces: No 54CV: M5; M6; M7; M8; M9; M10; M12; M13; M14




Code	Δ g
96031901	1225

54X Screwdriver sockets

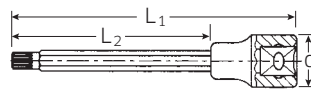
- for trisquare socket head screws (XZN®)
- DIN 2324
- Chrome Alloy Steel, chrome plated




Code	size	L ₁ mm	L ₂ mm	d mm	Δ 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	Δ 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: M10 and M12 for cylinder head screws on VW/Audi, Opel, Mercedes-Benz M14 for cylinder head screws on VM diesel engines, Chrysler

3054X/54X/8 Set screwdriver sockets

- for trisquare socket head screws (XZN®)
- in sturdy, stackable ABS plastic case
 Content 8 pieces:
 No 3054X: M8; M10; M12
 No 54X: M6; M8; M10; M12; M14




Code	Δ g
96033606	1288

1054x/2054x Screwdriver sockets

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

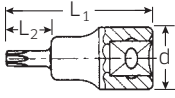


Code	No	size	L ₁ mm	L ₂ mm	d mm	Δ g	
03160808	1054X	M8	80	42	22.7	86	5
03161208	2054X	M8	120	82	22.7	104	5
03161110	2054X	M10	110	72	22.7	130	5
03161112	2054X	M12	110	70	23.7	168	5

Application: No 1054x, M8, for jointed shafts on VW/Audi

54TX Screwdriver sockets

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



Code	size	mm	L ₁ mm	L ₂ mm	d mm	Δ g	
03 100020	T20	3.8	55	17	22.7	71	5
03 100025	T25	4.4	55	17	22.7	71	5
03 100027	T27	5	55	17	22.7	72	5
03 100030	T30	5.5	55	17	22.7	72	5
03 100040	T40	6.6	55	17	22.7	75	5
03 100045	T45	7.8	55	17	22.7	74	5
03 100050	T50	8.8	55	17	22.7	87	5
03 100055	T55	11.2	58	18	23.7	110	5
03 100060	T60	13.2	58	18	23.7	113	5
03 100070	T70	15.5	60	20	27.5	155	1

Application: size T55 for the cylinder head screws on the Opel Omega V6

54TX/9 Set screwdriver sockets

- for inside TORX® screws
- in carton packing

Content 9 pieces:

No 54TX: T20; T25; T27; T30; T40; T45; T50; T55; T60



Code	Δ g
9603 1004	820

54TX/10 Set TORX® sockets

- for inside TORX® screws
- in sturdy, stackable ABS plastic case

Content 10 pieces:

No 54TX: T20; T25; T27; T30; T40 (2x); T45; T50; T55; T60



Code	Δ g
9603 2005	1170

54TX/59TX/12/1 Socket set TORX®

- in sturdy, stackable ABS plastic case
- for inside TORX® screws

Content 13 pieces:

9 screwdriver sockets for internal

TORX® screws No 54TX:
sizes T20; T25; T27; T30;

T40; T45; T50; T55; T60

3 screwdriver sockets for internal

TORX® screws No 59TX: sizes T70; T80; T90

1 extending adaptor No 514, 1/2" socket x 3/4" plug (12.5 x 20)



Code	Δ g
9603 2006	2710

ES 54X/54TX



- 175 x 350 x 38 mm
- 16 pieces

Code	Δ g
9683 8115	1600

No	Content
54X	1/2" M5; M6; M8; M10; M12; M14; M16
54TX	1/2" sizes T20; T25; T27; T30; T40; T45; T50; T55; T60

1054TX/2054TX 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 1230	1054TX	T30	5.5	120	82	22.7	99	5
03 13 1440	2054TX	T40	6.6	140	102	22.7	110	5
03 13 1445	2054TX	T45	7.8	140	102	22.7	111	5
03 13 1450	1054TX	T50	8.8	140	102	22.7	140	5
03 13 1455	1054TX	T55	11.2	140	102	22.7	159	5
03 13 1460	1054TX	T60	13.2	140	100	23.7	221	5

Application: 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 1240	T40	6.6	120	82	22.7	100	5
03 13 1245	T45	7.8	120	82	22.7	100	5
03 13 1070	T70	15.5	107	67	23.7	201	5

Socket sets and sockets

12,5
1/2"

DIN
3120

ISO
1174-1

ES 1054/2054TX/6



- 175 x 175 x 30 mm
- 6 pieces

Code	ΔΔ g
96838163	900

No	Content
1054TX	1/2" ⌀ sizes T30; T50; T55; T60
2054TX	1/2" ⌀ sizes T40; T45

1054TX/4T Set screwdriver sockets

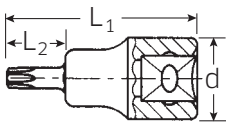
- for inside TORX® screws
- in textile bag
- Content 4 pieces:
- No 1054TX: T40; T45; T50; T55



Code	ΔΔ g
96031301	527

54TXB Set screwdriver sockets

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



Code	size	mm	L ₁ mm	L ₂ mm	d mm	ΔΔ g	
03110020	T20	3.8	55	17	22.7	70	5
03110025	T25	4.4	55	17	22.7	65	5
03110027	T27	5	55	17	22.7	71	5
03110030	T30	5.5	55	17	22.7	71	5
03110040	T40	6.6	55	17	22.7	71	5
03110045	T45	7.8	55	17	22.7	72	5
03110050	T50	8.8	55	17	22.7	86	5
03110055	T55	11.2	58	18	23.7	111	5
03110060	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)
- in carton packing with transparent cover
- Content 9 pieces:
- No 54TXB: T20; T25; T27; T30; T40; T45; T50; T55; T60



Code	ΔΔ g
96031007	810

54TXB/10 Set screwdriver sockets

- for inside TORX® screws
- tamper proof, with hollow point (TORX® TAMPER RESISTANT)
- in sturdy, stackable ABS plastic case
- Content 10 pieces:
- No 54TXB: T20; T25; T27; T30; T40 (2x); T45; T50; T55; T60



Code	ΔΔ g
96032008	1178

50CL Clip strips

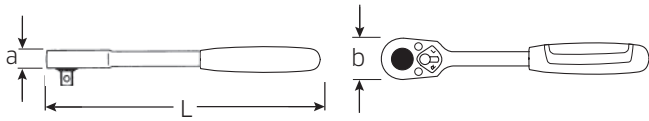
- for socket retention
- supplied without sockets



Code	size	L mm	ΔΔ g
80500001	1	200	54
80500002	2	300	73

Drive tools and accessories

- 1/2" □
- finish: Chrome Alloy Steel, chrome plated



512 Ratchet

- reversible
- 36 teeth
- with 2-component handle
- DIN 3122/ISO 3315



Code	L mm	b mm	a mm	g	1
13 11 10 10	265.5	41	22.5	600	1

512G Ratchet

- reversible
- 36 teeth
- with 2-component handle
- DIN 3122/ISO 3315
- encapsulated housing minimises the ingress of dirt



Code	L mm	b mm	a mm	g	1
13 11 11 10	265.5	41	22.5	613	1

512QR N QuickRelease ratchet, fine tooth



- reversible
- 80 teeth
- with QuickRelease safety lock
- with 2-component handle
- for use in confined spaces, re-engages after movement of 4.5°
- DIN 3122/ISO 3315
- registered design



Code	L mm	b mm	a mm	g	1
13 11 11 20	265.5	41	23	572	1

512SG-QR N QuickRelease ratchet, fine tooth



- reversible
- 80 teeth
- with QuickRelease safety lock
- with steel handle
- for use in confined spaces, re-engages after movement of 4.5°
- construction without screws prevents foreign object damage
- DIN 3122/ISO 3315
- registered design



Code	L mm	b mm	a mm	g	1
13 11 10 30	265.5	41	22.5	654	1

515 Ratchet, fine tooth

- reversible
- 60 teeth
- with 2-component handle
- for use in confined spaces, re-engages after movement of 6°
- DIN 3122/ISO 3315



Code	L mm	b mm	a mm	g	1
13 23 10 11	265	40	26.2	515	1

517QR QuickRelease fine-tooth flexible-joint ratchet



- reversible
- 80 teeth
- with QuickRelease safety lock
- with 2-component handle
- handle may be raised or lowered by approx. 90°, lockable in following positions:
 - straight
 - 30° up
 - 60° up
 - 30° down
- release the lock by pressing the button in the handle
- for use in confined spaces, re-engages after movement of 4.5°
- construction without screws prevents foreign object damage
- DIN 3122/ISO3315
- registered design



Code	L mm	b mm	a mm	g	1
13 26 10 10	416	41	22	920	1

522 Ratchet adaptor

- reversible
- 20 teeth



Code	L mm	∅ mm	g	1
13 14 00 00	67.5	40	316	1

532 Ratchet

- long handle
- reversible
- 36 teeth
- with 2-component handle



Code	L mm	b mm	a mm	g	1
13 12 10 10	380	41	22.5	821	1

532G Ratchet

- long handle
- reversible
- 36 teeth
- with 2-component handle
- encapsulated housing minimises the ingress of dirt



Code	L mm	b mm	a mm	g	1
13 12 11 10	380	41	22.5	815	1

Socket sets and sockets

12,5
1/2"

DIN
3120

ISO
1174-1

512QR N/7 Set of wrenches



- in sturdy, stackable ABS plastic case

Content 7 pieces:

1 ratchet No 512QR N

4 extensions

No 509QR/2 (52 mm),

No 509QR/3 (75 mm),

No 509QR/5 (130 mm), No 509QR/10 (255 mm)

1 universal joint No 510QR

1 T-handle No 506QR



Code	△△ g
96034010	2990

5120+7210/15 Spare parts set for ratchets No 512, 532

Content 8 pieces:

1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 screws

Code	△△ g
19040000	127

5120G Spare parts set for ratchets No 512G, 532G

Content 8 pieces:

1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 screws

Code	△△ g
19040030	120

5120QR N80 Spare parts set for ratchets No 512QR N, 512SG-QR N, 517QR



Content 9 pieces:

1 pinion; 1 locking disc; 1 lever;

1 pin; 1 ball; 1 compression spring;

2 circlips; 1 cover plate



Code	△△ g
19042020	120

for ratchets with screwless design

5120QR N Spare parts set for ratchet No 512QR N



Content 8 pieces:

1 pinion; 1 pawl; 1 lever with pin;

1 ball; 2 compression springs; 2 screws



Code	△△ g
19040040	140

for ratchet 512QR N, design with screws

5120QR Spare parts set for ratchets No 512, 512SG-QR



Content 8 pieces:

1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 screws

code	△△ g
19040020	118

7350/20 Spare parts set for ratchet No 515

Content 7 pieces:

1 pinion; 1 pawl; 1 switching disk; 1 spring; 3 screws

code	△△ g
59251020	140

501 Speeder brace

- working radius 105 mm

- DIN 3122/ISO 3315



Code	L mm	△△ g	☐
13100010	456	620	5

501QR QuickRelease speeder brace



- with steel handle

- for greater axial power transmission, detachable palm head

- working radius 105 mm

- DIN 3122/ISO 3315

- with QuickRelease safety lock

- patent



Code	L mm	△△ g	☐
13100005	456	872	1

504 Flexible handle

- DIN 3122/ISO 3315

- with 2-component handle



Code	size	L mm	△△ g	☐
13061015	15	397	735	1
13061018	18	469	831	1
13061024	24	610	1051	1

5040N Spare parts set for No 504

Content 3 pieces:

1 universal joint, 1 screw,

1 spring washer



Code	△△ g
96190801	80

for version with black, manganese-phosphated TORX® screw

3

5040 Spare parts set for No 504

Content 3 pieces:
1 universal joint, 1 screw,
1 spring washer



Code		
96 19 08 00	75	

for version with chrome plated Philips-head screw

506 Sliding T-handle

• DIN 3122/ISO 3315



Code	L mm		
13 07 00 00	300	436	5

506QR QuickRelease sliding T-handle

QR
• with QuickRelease safety lock
• patent



Code	L mm		
13 07 10 00	300	470	1

509 Extensions

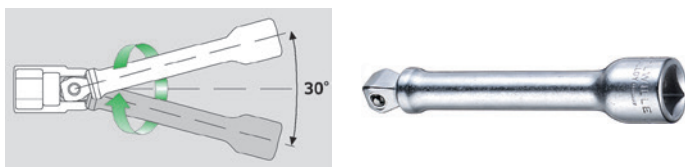
• DIN 3123/ISO 3316



Code	size	L mm	d mm		
13 01 00 01	2	52	23	88	5
13 01 00 04	3	75	23.2	120	5
13 01 00 02	5	130	23.2	191	5
13 01 00 03	10	255	23.2	341	5

509W Wobble-Drive extensions

• swivel angle 15° each side
• maximum torque 200 N·m



Code	size	L mm	d mm		
13 01 00 05	2	52	23	80	5
13 01 00 06	3	75	23.2	120	5
13 01 00 07	5	130	23.2	191	5
13 01 00 08	10	255	23.2	341	5

509QR QuickRelease extensions

QR
• patent
• DIN 3123/ISO 3316



Code	size	L mm	d mm		
13 01 10 01	2	52	23	90	1
13 01 10 04	3	75	23	123	1
13 01 10 02	5	130	23	187	1
13 01 10 03	10	255	23	341	1

3505 Special extension



Code	L mm	d mm		
13 21 00 01	120	23.2	186	1

510 Universal joint

• DIN 3123/ISO 3316



Code	L mm	d mm		
13 02 00 00	71	25	146	5

510QR QuickRelease universal joint

QR
• DIN 3123/ISO 3316
• with QuickRelease safety lock
• patent



Code	L mm	d mm		
13 02 10 00	80	25	155	1

5513 Set of adaptors

content 5 pieces:
• No 409, 1/4" socket x 3/8" plug
• No 431, 3/8" socket x 1/4" plug
• No 432, 3/8" socket x 1/2" plug
• No 513, 1/2" socket x 3/8" plug
• No 514, 1/2" socket x 3/4" plug



Code	
96 12 10 03	648

12,5
1/2"

DIN
3120

ISO
1174-1

3

Socket sets and sockets

12,5
1/2"

DIN
3120

ISO
1174-1

513 Reducing adaptor

HPQ

- 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	
13030002	35	22.7	60	5

514 Extending adaptor

HPQ

- 1/2" socket x 3/4" plug (12.5 x 20)
- DIN 3123/ISO 3316
- HPQ® high performance steel

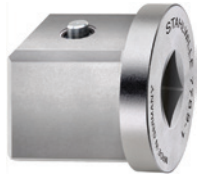


Code	L mm	d mm	△▽ g	
13030005	44	25	110	5

7789-1 Extending adaptor

HPQ

- 1/2" socket x 1" plug (12.5 x 25)
- HPQ® high performance steel



Code	L mm	d mm	△▽ g	
58522089	35	36.5	175	1

409M/432M/ 514M/3 Set extending adaptors

content 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
96121002	120

514M Extending adaptor

- 1/2" socket x 3/4" plug (12.5 x 20)



Code	L mm	∅ mm	△▽ g	
13030010	22	38	40	1

543 Bit holder

- ∅ 5/16" inside hexagon
- DIN 3126/ISO 1173 D 8
- internal hex drive with a collar-thrust spring
- 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	
13180010	38	22	65	5

50TX/16/5 Socket set TORX® 1/2"

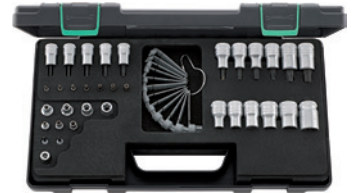
- in sturdy, stackable ABS plastic case
- Content 21 pieces:
 - 7 sockets for external TORX® screws No 50TX: sizes E10; E12; E14; E16; E18; E20; E24
 - 9 screwdriver sockets for internal TORX® screws No 54TX: sizes T20; T25; T27; T30; T40; T45; T50; T55; T60
 - 1 ratchet No 512
 - 3 extensions No 509/2 (52 mm), No 509/5 (130 mm), No 509/10 (255 mm)
 - 1 universal joint No 510



Code	△▽ g
96033702	3655

89TX Socket set TORX® 1/4; 3/8; 1/2"

- in sturdy, stackable ABS plastic case
- Content 35 pieces:
 - 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
98811908	2420

50a/17/6 Socket set 1/2"

- in sturdy, stackable ABS plastic case
- Content 23 pieces:
 - 17 sockets with bi-hexagon No 50a: 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	△▽ g
96035125	4640

87a Socket set 1/2"

- in sturdy, stackable ABS plastic case

Content 40 pieces:

- 15 sockets with bi-hexagon No 50a: 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: 16 mm - 5/8", 20.8 mm - 13/16"

- 5 INHEX sockets No 54a: 7/32, 1/4, 5/16, 3/8, 1/2"

- 12 combination spanners No 13a: 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	△△ g
96035101	6700

TCS 1/2"-512/6

- 175 x 350 x 35 mm
- 6 pieces

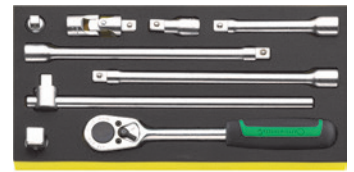


Code	△△ g
96838175	1845

No	Content
506	1/2" ■ 300 mm
509/2	1/2" ■ ○ 52 mm
509/5	1/2" ■ ○ 130 mm
509/10	1/2" ■ ○ 255 mm
510	1/2" ■ ○ 71 mm
512	1/2" ■

TCS 1/2"-512/9

- 175 x 350 x 40 mm
- 9 pieces



Code	△△ g
96830603	2364

No	Content
506	1/2" ■ 300 mm
509/2	1/2" ■ ○ 52 mm
509/5	1/2" ■ ○ 130 mm
509/10	1/2" ■ ○ 255 mm (2x)
510	1/2" ■ ○ 71 mm
512	1/2" ■
513	3/8" ■ 1/2" ○
514	3/4" ■ 1/2" ○

ES 1/2" - 512/6

- 175 x 350 x 35 mm
- 6 pieces



Code	△△ g
96838113	1915

No	Content
506	1/2" ■ 300 mm
509/2	1/2" ■ ○ 52 mm
509/5	1/2" ■ ○ 130 mm
509/10	1/2" ■ ○ 255 mm
510	1/2" ■ ○ 71 mm
512	1/2" ■

TCS 1/2" - 512/6QR

- 175 x 350 x 35 mm
- 6 pieces



Code	△△ g
96830362	1845

No	Content
506QR	1/2" ■ 300 mm
509QR/2	1/2" ■ ○ 52 mm
509QR/5	1/2" ■ ○ 130 mm
509QR/10	1/2" ■ ○ 255 mm
510QR	1/2" ■ ○ 80 mm
512QR N	1/2" ■

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
the tools are in their places.

Socket sets and sockets

12
1/2"

DIN
3120

ISO
1174-1

3

TCS 1/2" - 512/9QR

NEW



- 175 x 350 x 40 mm
- 9 pieces

Code	g
96830363	2364

No	Content
506QR	1/2" ■ 300 mm
509QR/2	1/2" ■ ○ 52 mm
509QR/5	1/2" ■ ○ 130 mm
509QR/10	1/2" ■ ○ 255 mm (2x)
510QR	1/2" ■ ○ 80 mm
512QR N	1/2" ■
513	3/8" ■ 1/2" ○
514	3/4" ■ 1/2" ○

55a Sockets

AS drive HPQ

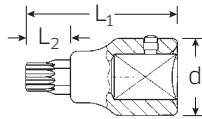
- SAE AS 954-E (test loads), ASME B 107.1
- AS-drive and HPQ® high performance steel up to 1 1/2", chrome plated



Code	"	d ₁ mm	d ₂ mm	d ₃ mm	L mm	t ₁ mm	t ₂ mm	g	
05410040	3/4	28.5	34.7	18.6	50	26	16	176	2
05410042	13/16	31	34.7	19.4	51	25.1	16.5	190	2
05410044	7/8	33	34.7	21	51	24.5	18	240	2
05410046	15/16	34	34.7	22.5	51	24.2	18.5	248	2
05410048	1	37	38	24	52	24.8	20	251	2
05410050	1 1/16	38.5	38	26	54	26.2	20	265	2
05410052	1 1/8	41	38	27.5	57	32.5	20	297	2
05410056	1 1/4	44.5	38	30.5	58	32.6	22	339	2
05410058	1 5/16	46.5	40	32.1	59	33.1	24	348	2
05410060	1 3/8	48.5	40	33.7	59	32.7	24	375	2
05410062	1 7/16	50	40	35.3	60	33.2	27	395	2
05410064	1 1/2	52	40.5	36.8	64	36.8	30	415	2
05410066	1 5/8	56	40	33	67	37.5	30	469	1
05410067	1 11/16	58	40	33	70	40.5	32	524	1
05410068	1 3/4	59.5	40	33	70	40.5	32	524	1
05410069	1 13/16	61.5	40	33	73	43.5	34	605	1
05410070	1 7/8	63.5	40	33	76	45	34	660	1
05410072	2	67	40	33	80	48.5	34	757	1

59X Screwdriver sockets

- for trisquare socket head screws (XZN®)
- Chrome Alloy Steel, chrome plated

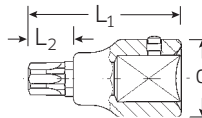


Code	size	L ₁ mm	L ₂ mm	d mm	g	
05060014	M14	90	35	34.7	281	1
05060016	M16	80	25	34.7	302	1
05060018	M18	100	45	34.7	375	1

Application: Flywheel and oscillation damper on Mercedes-Benz commercial vehicles

59TX Screwdriver sockets

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

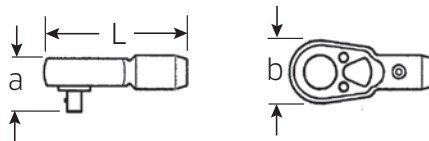


Code	size	mm	L ₁ mm	L ₂ mm	d mm	g	
05100060	T60	13.2	80	25	34.7	260	1
05100070	T70	15.5	80	25	34.7	285	1
05100080	T80	17.6	80	25	34.7	300	1
05100090	T90	19.9	80	25	34.7	331	1
05100100	T100	22.1	80	25	40	474	1

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
- with QuickRelease safety lock
- for use with bar handle No 558



Code	L mm	b mm	a mm	g	
15110000	165	70	55	1670	1

552 Spare parts set for ratchet No 552

Content 7 pieces:
1 pinion, 1 pawl, 1 lever, 1 ball, 1 compression spring, 2 screws

Code	g	g	g
19050000	536	1	

563 Ratchet adaptor

- reversible
- 44 teeth



Code	L mm	∅ mm	g	g
15140000	105.5	63	1257	1

554 Flexible head

- with QuickRelease safety lock
- for use with bar handle No 558



Code	L mm	d mm	g	g
15060000	132	40	795	5

556 Sliding head

- can be used as a T-handle in combination with bar handle No 558



Code	L mm	d mm	g	g
15070000	61.5	40	318	5

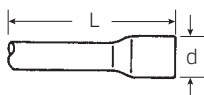
558 Bar handle



Code	L mm	d mm	g	g
15170000	510	20	1259	2

559 Extensions

- DIN 3123/ISO 3316



Code	size	L mm	d mm	g	g
15010003	4	95	35	369	5
15010001	8	200	35	705	5
15010002	16	400	35	1255	5

561 Universal joint

- DIN 3123/ISO 3316



Code	L mm	d mm	g	g
15020000	109	40	566	1

568 Reducing adaptor

- HPQ
- 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	g	g
15030003	55	34.7	203	5

569 Extending adaptor

- HPQ
- 3/4" inside x 1" plug (20 x 25)
- DIN 3123/ISO 3316
- HPQ® high performance steel



Code	L mm	d mm	g	g
15030006	61	34.7	315	5

55a/10/5 Socket set 3/4" □

- in sturdy sheet steel case
- Content 15 pieces:
- 10 sockets with bi-hexagon No 55a:
 - 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	12620

55a/16/6 Socket set 3/4" □

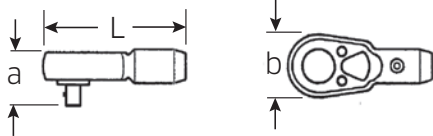
- in sturdy sheet steel case
- Content 22 pieces:
- 16 sockets with bi-hexagon No 55a:
 - 7/8; 15/16; 1; 1 1/16;
 - 1 1/8; 1 1/4; 1 5/16; 1 3/8;
 - 1 7/16; 1 1/2; 1 5/8; 1 11/16;
 - 1 3/4; 1 13/16; 1 7/8; 2"
- 1 ratchet No 552
- 2 extensions No 559/8 (200 mm), No 559/16 (400 mm)
- 1 flexible head No 554
- 1 sliding head for T-handle No 556
- 1 bar handle No 558



Code	g
96054103	16750

Drive tools and accessories

- 1" □
- finish: Chrome Alloy Steel, chrome plated



882 Ratchet

- **QR**
- reversible
- 36 teeth
- with QuickRelease safety lock
- for use with bar handle No 888



Code	L mm	b mm	a mm	△g	g	☐
16110000	185	70	60	1984	1	

8820 Spare parts set for ratchet No 882

Content 7 pieces:
1 pinion; 1 pawl; 1 lever; 1 ball; 1 compression spring; 2 screws

Code	△g	g	☐
19070000	609	1	

884 Flexible head

- **QR**
- with QuickRelease safety lock
- for use with bar handle No 888



Code	L mm	d mm	△g	g	☐
16060000	195	48	1848	1	

886 Sliding head

- can be used as a T-handle in combination with bar handle No 888



Code	L mm	d mm	△g	g	☐
16070000	80	48	616	1	

888 Bar handle



Code	L mm	d mm	△g	g	☐
16170000	700	28	3337	1	

859 Extensions

- DIN 3123/ISO 3316



Code	size	L mm	d mm	△g	g	☐
16010001	8	200	43	1004	2	
16010002	16	410	43	1794	2	

866 Reducing adaptor

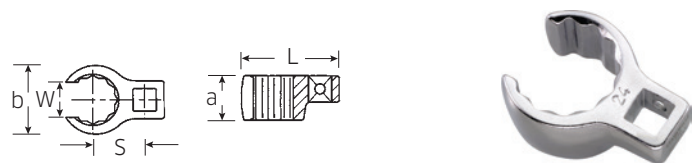
- **HPQ**
- 1" socket x 3/4" plug (25 x 20)
- maximum torque 1412 N·m
- DIN 3123/ISO 3316
- **HPQ**® high performance steel



Code	L mm	d mm	△g	g	☐
16030005	70	43	347	2	

440a CROW-RING spanners

- **AS**
- Chrome Alloy Steel, chrome plated
- Caution! Modified settings on torque wrench (refer to note on page 129)



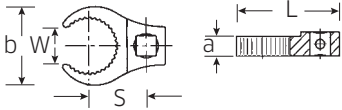
Code	"	"	L mm	b mm	a mm	S mm	W mm	△g	g	☐
01490024	3/8 ¹⁾	1/4	28.4	18.2	13.5	14	7.1	16	1	
01490028	7/16	1/4	28	18.2	13.5	14	8.6	14	1	
01490032	1/2	1/4	30.5	20.6	14	15.7	10	19	1	
01490034	9/16	1/4	31.7	22.2	14	16.4	11.1	23	1	
02490036	5/8	3/8	36.5	24.6	17.5	19.1	11.9	33	1	
02490038	11/16	3/8	39.2	27.3	17.5	20.5	14	36	1	
02490040	3/4	3/8	40.9	29	18.5	21.3	14.2	44	1	
02490042	13/16	3/8	42.9	31.3	18.5	22.5	15.8	51	1	
02490044	7/8	3/8	45.2	33.5	19	23.6	17.5	62	1	
02490046	15/16	3/8	47.2	35.7	19.5	24.6	18.3	63	1	
02490048	1	3/8	49.3	37.7	20	25.7	19	71	1	
02490050	1 1/16	3/8	52.8	40	21.4	28.2	20	84	1	
03490052	1 1/8	1/2	56.8	42.1	22.5	29.3	21	110	1	
03490056	1 1/4	1/2	62.5	48	22.5	32.5	23.8	137	1	
03490058	1 5/16	1/2	62.3	48	22.5	32.5	24.6	130	1	
03490060	1 3/8	1/2	64.2	50	24	33.5	27	138	1	
03490062	1 7/16	1/2	66.5	51.9	24	34.6	27	143	1	
03490064	1 1/2	1/2	68.1	53.9	24	35.6	28.6	152	1	
03490065	1 9/16	1/2	70.1	55.9	24	36.7	29.4	172	1	
03490066	1 5/8	1/2	71.8	57.9	24.5	37.7	31	169	1	
03490068	1 3/4	1/2	75.6	62	25.5	39.8	33.2	199	1	
03490069	1 13/16	1/2	77.7	64.2	26	40.9	34.1	229	1	
03490072	2	1/2	83.2	70.5	27.5	44.1	39.7	277	1	
03490076	2 1/4	1/2	91.2	78.7	29.5	48.2	42.8	337	1	
03490077	2 5/16	1/2	93.3	80.9	30	49.2	43.6	309	1	
03490078	2 3/8	1/2	95.2	83	30.5	50.2	46	385	1	

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

440S MJ CROW-RING spanners

HPQ

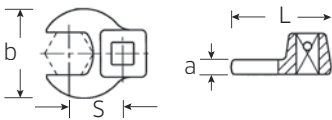
- HPQ® high performance steel, chrome plated
- supersedes No 440 MJ
- EN 4108
- for pipe unions with straight cylindrical involute toothing
- Caution! Modified settings on torque wrench (refer to note on page 129)



Code	Threaded nut	mm	"	L mm	b mm	a mm	S mm	W mm	g	
01 21 10 10	MJ10	DN04	1/4	31.9	22	8	17	6.5	54	1
01 21 10 14	MJ14	DN06	1/4	36.5	27	8	19.5	8.5	29	1
02 21 10 16	MJ16	DN08	3/8	43.8	31	8	24	10.5	46	1
02 21 10 18	MJ18	DN10	3/8	45.2	33	8	25	13	47	1
02 21 10 20	MJ20	DN12	3/8	46.2	35	8	26	15	49	1
02 21 10 22	MJ22	DN14	3/8	48.4	37	9	27	17.5	54	1
02 21 10 24	MJ24	DN16	3/8	49.5	39	9	28	19.7	56	1
02 21 10 27	MJ27	DN18	3/8	54.4	44	10	31	21.5	70	1
02 21 10 30	MJ30	DN20	3/8	60.8	50	10	36	23.7	93	1

540a CROW-FOOT spanners

- Chrome Alloy Steel, chrome plated
- Caution! Modified settings on torque wrench (refer to note on page 129)



Code	"	"	L mm	b mm	a mm	S mm	g	
01 50 00 24	3/8	1/4	25.5	19.8	6.3	14.6	17	1
02 50 00 28	7/16	3/8	32	22.2	6.3	17.2	34	1
02 50 00 32	1/2	3/8	34.3	25.4	6.3	18.1	37	1
02 50 00 34	9/16	3/8	37.7	30	6.3	20.9	40	1
02 50 00 36	5/8	3/8	37.7	30	6.3	20.4	44	1
02 50 00 38	11/16	3/8	42.5	38	6.3	24.1	62	1
02 50 00 40	3/4	3/8	42.5	38	6.3	24	66	1
02 50 00 42	13/16	3/8	42.3	38	6.3	24	59	1
02 50 00 44	7/8	3/8	44.5	41	6.3	25.8	65	1
02 50 00 48	1	3/8	47	45	8	26.7	78	1
02 50 00 50	1 1/16	3/8	47	45	8	27.2	78	1
02 50 00 52	1 1/8	3/8	50	50	8	28.5	84	1
02 50 00 54	1 3/16	3/8	50	50	8	29.2	83	1
02 50 00 56	1 1/4	3/8	53	57	8	30.3	101	1
02 50 00 58	1 5/16	3/8	53	57	8	31.2	101	1
02 50 00 60	1 3/8	3/8	54.5	60	8	32.3	105	1
02 50 00 62	1 7/16	3/8	56.5	62	8	33.1	107	1
02 50 00 64	1 1/2	3/8	58	65	8	34.5	118	1
02 50 00 65	1 9/16	3/8	59.5	68	8	35.7	126	1
02 50 00 66	1 5/8	3/8	63	70	8	37.3	140	1
02 50 00 67	1 11/16	3/8	63	70	8	37.7	126	1
02 50 00 68	1 3/4	3/8	68	76	8	40.4	161	1
02 50 00 70	1 7/8	3/8	72	82	8	42	205	1
02 50 00 72	2	3/8	75	88	8	44.8	214	1
02 50 00 74	2 1/8	3/8	75.6	91	10	46	265	1
02 50 00 76	2 1/4	3/8	80.5	96	10	49.5	297	1
03 50 00 78	2 3/8	1/2	81.5	96	8	51.3	214	1

1225 Special extension

- 3/8"
- offset

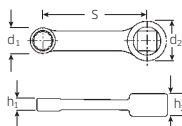


Code	L mm	d mm	g	
12250001	150	17	128	5

447a Adaptor

HPQ AS steel

- SAE AS 954-E
- HPQ® high performance steel, gunmetal finish
- Caution! Modified settings on torque wrench (refer to note on page 129)



Code	"	"	d1 mm	d2 mm	h1 mm	h2 mm	S mm	g	
02 47 00 16	1/4	3/8	10.4	19	6	11	50.8	27	1
02 47 00 20	5/16	3/8	12.4	19	6	11	50.8	29	1
02 47 00 24	3/8	3/8	14.9	19	8	11	50.8	41	1
02 47 00 28	7/16	3/8	17	19	8	11	50.8	40	1
02 47 00 32	1/2	3/8	19	19	9.2	11	50.8	56	1

6,3
1/4"

10
3/8"

12,5
1/2"

25
1"

DIN
3120

ISO
1174-1

3

Socket sets and sockets

6,3
1/4"

10
3/8"

12,5
1/2"

DIN
3120

ISO
1174-1

3

540a HD

CROW-FOOT spanners heavy-duty

- for particularly high loadings, e.g. stainless steel screw fittings
- full use of jaws in conjunction with standard ratchets
- chrome plated
- supplied without ratchet
- Caution! Modified settings on torque wrench (refer to note on page 129)



Code	"	"	L mm	b mm	a mm	S mm	Δ g	
02 50 10 24	3/8	3/8	39	26	11	24	56	1
02 50 10 28	7/16	3/8	40	26	11	25	56	1
02 50 10 32	1/2	3/8	42	30	11	25.8	64	1
02 50 10 34	9/16	3/8	43.4	32	11	26.8	52	1
02 50 10 36	5/8	3/8	45	34.8	11	27.7	58	1
02 50 10 38	11/16	3/8	47.2	38	11	28.6	69	1
02 50 10 40	3/4	3/8	49	41	11	29.6	94	1
02 50 10 42	13/16	3/8	51	46.4	11	30.5	113	1
02 50 10 44	7/8	3/8	52	48	11	31.3	99	1
02 50 10 46	15/16	3/8	54	51.2	11	32.3	129	1
02 50 10 48	1	3/8	56	53.4	11	33.2	133	1
02 50 10 50	1 1/16	3/8	57	53.8	11	34.1	124	1
02 50 10 52	1 1/8	3/8	59	53.8	11	35	128	1
02 50 10 54	1 3/16	3/8	60	56	11	35.9	144	1
02 50 10 58	1 5/16	3/8	63	56	11	27.9	156	1
02 50 10 56	1 1/4	3/8	62	60	11	36.8	153	1
02 50 10 60	1 3/8	3/8	65	62	11	38.7	178	1
02 50 10 62	1 7/16	3/8	66.5	66	11	39.6	172	1
03 50 10 64	1 1/2	1/2	76	70	16	45	310	1
03 50 10 69	1 13/16	1/2	85	84	16	49.6	400	1
03 50 10 72	2	1/2	89	90	16	52.3	451	1
03 50 10 74	2 1/8	1/2	91.5	92.8	16	54.2	460	1
03 50 10 75	2 3/16	1/2	93	96	16	55.1	480	1
03 50 10 76	2 1/4	1/2	95	99	16	56	500	1

447aSP

Adaptor

HPQ

- for external Spline-Drive screws
- MS-33787, MIL-W-8982
- HPQ® high performance steel, gunmetal finish
- Caution! Modified settings on torque wrench (refer to note on page 129)



Code	Spline size	"	"	d ₁ mm	d ₂ mm	h ₁ mm	h ₂ mm	S mm	Δ g	
02 48 00 14	7	3/8	7/32	9.4	19	6	11	50.8	28	1
02 48 00 16	8	3/8	1/4	10.4	19	6	11	50.8	27	1
02 48 00 18	9	3/8	9/32	11.5	19	6	11	50.8	29	1
02 48 00 20	10	3/8	5/16	12.4	19	6	11	50.8	29	1
02 48 00 24	12	3/8	3/8	14.9	19	8	11	50.8	38	1
02 48 00 28	14	3/8	7/16	17	19	9.2	11	50.8	39	1
02 48 00 32	16	3/8	1/2	19	19	9.2	11	50.8	59	1
02 48 00 34	18	3/8	9/16	21	19	9.2	11	50.8	55	1
02 48 00 36	20	3/8	5/8	23	19	12	11	50.8	74	1

Empty boxes and trays

No	Box No	mm	Box Code	Tray Code
40TX/44KTX/15/6	40/9KN	227x131x57	81 25 10 19	83 01 20 07
88TX	45/1KN	322x134x57	81 26 10 11	83 02 20 17
89TX	40/7KN	413x230x57	81 25 10 14	83 09 20 13
86TX	50/6KN	481x288x82	81 27 10 19	83 01 20 02 83 01 10 03
40a/9/4, 40aD/9/4	40/9KN	227x131x57	81 25 10 19	83 01 20 13
40aD/12/7QR	40/9KN	227x131x57	81 25 10 19	83 01 21 16
40aD/30/7QR	40/7KN	413x230x57	81 25 10 14	83 01 21 12
40aD/8/1H	40/9KN	227x131x57	81 25 10 19	83 01 21 07
415QR N/7	40/9KN	227x131x57	81 25 10 19	83 32 30 06
45TX/7			-	83 06 00 15
49TX/8			-	83 06 00 14
45TX/49TX/15/5	40/7KN	413x230x57	81 25 10 14	83 02 20 19
45a/12/5	45/1KN	322x134x57	81 26 10 11	83 02 20 06
45a/14/8QR	50/4KN	454x253x64	81 27 10 34	83 02 20 12
45a/22/8QR	50/4KN	454x253x64	81 27 10 34	83 02 21 12
45a/33/13	50/5	530x265x50	81 27 00 05	83 02 02 13
435QR N/6	45/1KN	322x134x57	81 26 10 11	83 23 30 12
54CV/9	40/9KN	227x131x57	81 25 10 19	83 03 34 09
3054X/54X/8	40/9KN	227x131x57	81 25 10 19	83 03 36 12
50TX/7			-	83 06 00 09
50TX/8	40/9KN	227x131x57	81 25 10 19	83 03 34 11
54TX/9			-	83 06 00 10
54TX/10	40/9KN	227x131x57	81 25 10 19	83 03 24 02
54TX/59TX/12/1	40/7KN	413x230x57	81 25 10 14	83 06 10 12
54TXB/9			-	83 06 00 10
54TXB/10	40/9KN	227x131x57	81 25 10 19	83 03 24 02
50TX/16/5	50/3KN	413x226x64	81 27 10 13	83 03 24 13
876TX	50/6KN	481x288x82	81 27 10 19	83 09 20 11
50a/17/6	50/4KN	454x253x64	81 27 10 34	83 03 14 41
87a	50/6KN	481x288x82	81 27 10 19	83 09 11 12 83 09 12 12
512QR N/7	50/3KN	413x226x64	81 27 10 13	83 32 30 02
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



 Made in Germany

3



CONVENIENT.

Do you need empty cases? If so, include the appropriate hard-foam inlays from STAHLWILLE in your order. Together with the new tool cases, they ensure an exact fit and, as a result, excellent protection for your tools.

4 BITS

Bits and accessory tools
>> Page 106

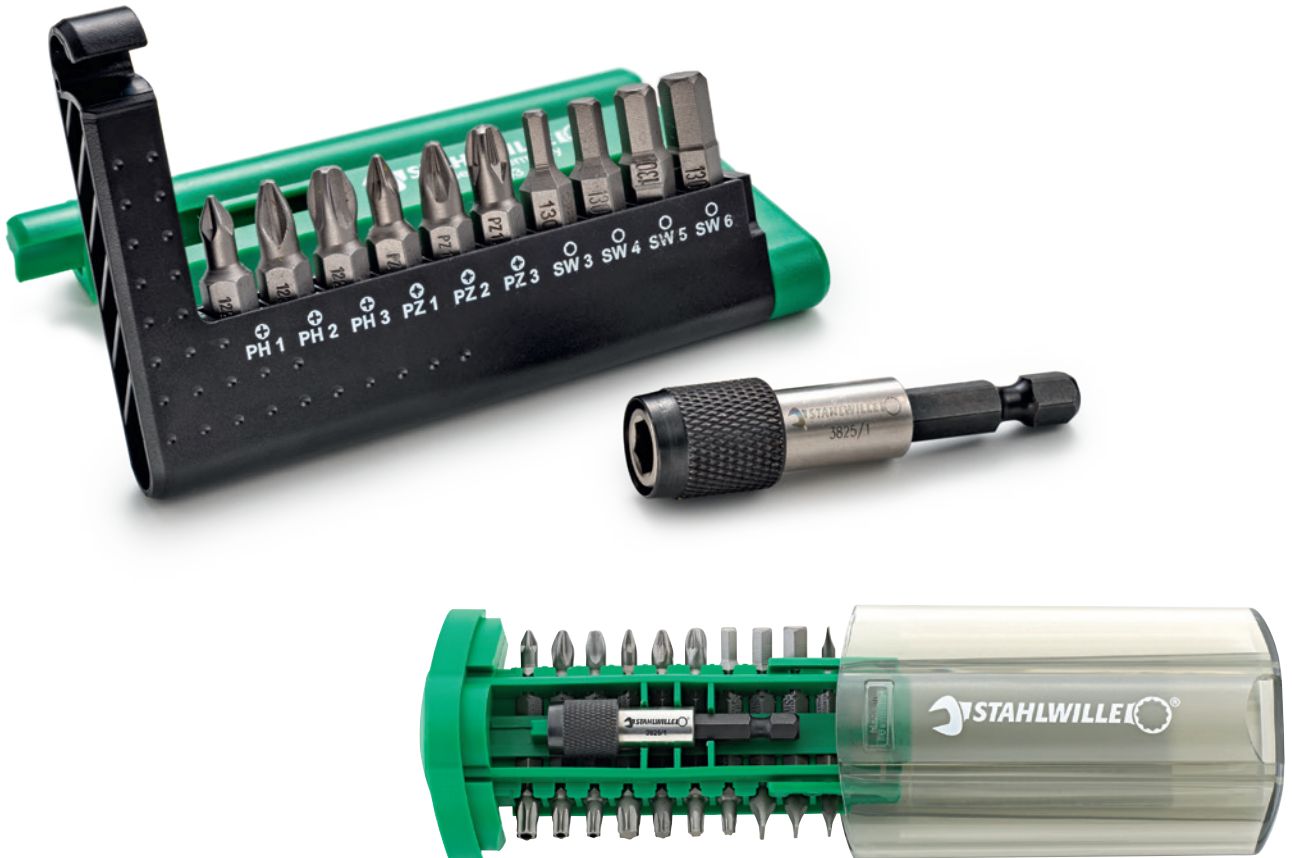


Always that bit better. The STAHLWILLE range of bits.



The bit that fits – always. Because STAHLWILLE offers a wide range of drive profiles: slotted, cross-head, POZIDRIV/SUPADRIV®, female TORX®, TORX PLUS®, spline head, female hexagon drive, TRI-WING®, TORQ-SET® and female star-head screws with a centring pin. Our Made in Germany production processes, coupled with the special hardening methods and high-alloy steels, guarantee a long service life. On request, selected STAHLWILLE bits are also available in practical sets – and with the matching drive tools, such as the bit ratchet with 80 teeth and steel handle for confined working spaces.

4



GRAB IT AND GO.

Ten bits in the convenient pocket-sized 1203 format – or twice that amount in the sturdy 1202 Bit Box. These compact STAHLWILLE bit boxes put the tools right where you need them. Made, of course, in Germany as premium quality tools.



COMPACT.

Instant recognition. Arranged in sturdy plastic cases, all the most important bits and sockets are instantly accessible.














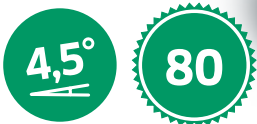
TORSION ZONE.

Thanks to the specially developed shape of STAHlwILLE torsion bits, the impact from battery-powered percussion screwdrivers up to 70 N·m is absorbed, achieving a far longer service lifetime for the profile than with normal bits.

CONVENIENT.

STAHlwILLE offers a particularly wide range of bits. Particularly convenient: in the event that individual bits get lost, they can easily be reordered as separate items.

- | | |
|--|--|
|  Slotted |  Female spline XZN® |
|  Phillips Recess® (cross-head) |  Internal hex |
|  POZIDRIV® SUPADRIV® |  TRI-WING® |
|  Female TORX® |  TORQ-SET® |
|  Female TORX® with central bore |  Female star-head with central bore |
|  TORX PLUS® | |



Perfectly suited for tight spaces where manageability and efficiency are essential requirements. The steel-handled fine-tooth bit ratchet has the ideal slim, compact shape and features the special 80-tooth mechanism.







Bits

1220-1223 1231-1234 Bits

- DIN 3128
- for Phillips screws






Code	No	PH size		"	L mm		g	
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	
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

PZ1221-1223 Bits

- for POZIDRIV/SUPADRIV® screws
- extra hard






Code	No	PZ size		"	L mm		g	
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	5	10	


outside  DIN 3126/ISO 1173

1160-1169 Bits

- DIN 3127/ISO 2351
- for slotted screws






Code	No	a x b mm		"	L mm		g	
08070120	1160	0.5 x 3.0	C 6.3	1/4	25	4	10	
08070121	1161	0.5 x 4.0	C 6.3	1/4	25	4	10	
08070122	1162	0.6 x 3.5	C 6.3	1/4	25	4	10	
08070123	1163	0.6 x 4.5	C 6.3	1/4	25	4	10	
08070124	1164	0.8 x 4.0	C 6.3	1/4	25	4	10	
08070125	1165	0.8 x 5.5	C 6.3	1/4	25	6	10	
08070126	1166	1.0 x 5.5	C 6.3	1/4	25	4	10	
08070130	1166/1	1.2 x 6.5	C 6.3	1/4	25	6	10	
08070127	1167	1.2 x 8.0	C 6.3	1/4	25	6	5	
08070128	1168	1.6 x 8.0	C 6.3	1/4	25	6	10	
08070129	1169	1.6 x 10.0	C 6.3	1/4	25	14	10	

outside  DIN 3126/ISO 1173

1350-1360 Bits

- for tri-square socket head screws (XZN®)



Code	No	size		"	L mm		g	
08200004	1350	M4	C 6.3	1/4	25	4	10	
08200010	1356	M5	C 6.3	1/4	25	5	10	
08200011	1357	M6	C 6.3	1/4	25	5	10	
08200012	1358	M8	C 8	5/16	28	10	10	
08200013	1359	M10	C 8	5/16	38	15	10	
08200014	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

1410-1421 1430-1435 Bits

- for inside TORX® screws



Code	No	size		mm		"	L mm		g	
08130006	1410	T 6	1.6	C 6.3	1/4	25	5	10		
08130007	1411	T 7	2.0	C 6.3	1/4	25	5	10		
08130008	1412	T 8	2.3	C 6.3	1/4	25	5	10		
08130009	1413	T 9	2.5	C 6.3	1/4	25	5	10		
08130010	1414	T 10	2.7	C 6.3	1/4	25	5	10		
08130015	1415	T 15	3.3	C 6.3	1/4	25	5	10		
08130020	1416	T 20	3.8	C 6.3	1/4	25	5	10		
08130025	1417	T 25	4.4	C 6.3	1/4	25	6	10		
08130027	1418	T 27	5.0	C 6.3	1/4	25	6	10		
08130030	1419	T 30	5.5	C 6.3	1/4	25	6	10		
08130040	1420	T 40	6.6	C 6.3	1/4	25	7	10		
08130045	1421	T 45	7.8	C 6.3	1/4	25	8	10		
08140027	1430	T 27	5.0	C 8	5/16	35	11	10		
08140030	1431	T 30	5.5	C 8	5/16	35	11	10		
08140040	1432	T 40	6.6	C 8	5/16	35	12	10		
08140045	1433	T 45	7.8	C 8	5/16	35	14	10		
08140050	1434	T 50	8.8	C 8	5/16	35	15	10		
08140055	1435	T 55	11.2	C 8	5/16	35	20	10		

outside  DIN 3126/ISO 1173

Application:

No 1416, size T20, for the door handle attachment for Mercedes-Benz types 168 and 203





No 1421, size T45, for removing and refitting the front doors on the VW Golf III and Vento from model year 93 on


No 1435, size T55, for screws in rear seats of BMW X6 Model E71, 7 series Model F01/F02

1440-1446 Bits

- with hollow point
- for inside TORX® screws (TORX® TAMPER RESISTANT)



Code	No	size		mm		"	L mm		g	
08160010	1440	T 10	2.7	C 6.3	1/4	26	6	10		
08160015	1441	T 15	3.3	C 6.3	1/4	26	6	10		
08160020	1442	T 20	3.8	C 6.3	1/4	26	6	10		
08160025	1443	T 25	4.4	C 6.3	1/4	26	6	10		
08160027	1444	T 27	5.0	C 6.3	1/4	26	6	10		
08160030	1445	T 30	5.5	C 6.3	1/4	26	6	10		
08160040	1446	T 40	6.6	C 6.3	1/4	26	7	10		

outside  DIN 3126/ISO 1173

1427 Bit

- for inside TORX® screws



Code	size		"	L mm		g	
08131025	T 25	C 6.3	1/4	65	18	1	

For BMW series 3 and 5
outside  DIN 3126/ISO 1173

1436 IP-1446 IP



for inside TORX PLUS® screws



Code	No	Hex	"	L mm	g	Box
08 16 2006	1436 IP 6	C 6.3	1/4	25	5	10
08 16 2007	1437 IP 7	C 6.3	1/4	25	4	10
08 16 2008	1438 IP 8	C 6.3	1/4	25	4	10
08 16 2009	1439 IP 9	C 6.3	1/4	25	4	10
08 16 2010	1440 IP 10	C 6.3	1/4	25	4	10
08 16 2015	1441 IP 15	C 6.3	1/4	25	5	10
08 16 2020	1442 IP 20	C 6.3	1/4	25	5	10
08 16 2025	1443 IP 25	C 6.3	1/4	25	5	10
08 16 2027	1444 IP 27	C 6.3	1/4	25	5	10
08 16 2030	1445 IP 30	C 6.3	1/4	25	6	10
08 16 2040	1446 IP 40	C 6.3	1/4	25	6	10

1440 TPI-1446 TPI



with hollow point
for female 5-star screws with a centring pin



Code	No	Hex	"	L mm	g	Box
08 16 1010	1440 TPI 10	C 6.3	1/4	26	6	5
08 16 1015	1441 TPI 15	C 6.3	1/4	26	5	5
08 16 1020	1442 TPI 20	C 6.3	1/4	26	5	5
08 16 1025	1443 TPI 25	C 6.3	1/4	26	5	5
08 16 1027	1444 TPI 27	C 6.3	1/4	26	5	5
08 16 1030	1445 TPI 30	C 6.3	1/4	26	5	5
08 16 1040	1446 TPI 40	C 6.3	1/4	26	7	5

outside ● DIN 3126/ISO 1173

1204/8 5-star bit set

- storage facility for bit screwdriver inserts
- Content:
 - 1 bit-holder No 412
 - 7 bit screwdriver inserts for female 5-star screws with centring pin, sizes TPI 10, 15, 20, 25, 27, 30, 40
 - for generators, motor management units, airflow sensors, door trim, immobilisers and injection pumps (e.g. Ford, Mercedes-Benz cars & HGVs, Rover, Volvo, VW/Audi)



Code	g	Box
9608 1113	104	1

1299 Bit

- for inside hexagon screws
- for operating the adjusting screws on torque wrenches No 720, 721, 730 and 730N



Code	mm	Hex	"	L mm	g	Box
08090002	2	C 6.3	1/4	34	4	10

outside ● DIN 3126/ISO 1173

13008 Bits

for TRI-WING® screws



Code	TRI-WING®	Hex	"	L mm	g	Box
08 25 0000	0	C 6.3	1/4	25	5	10
08 25 0001	1	C 6.3	1/4	25	5	10
08 25 0002	2	C 6.3	1/4	25	5	10
08 25 0003	3	C 6.3	1/4	25	5	10
08 25 0004	4	C 6.3	1/4	25	5	10
08 25 0005	5	C 6.3	1/4	25	5	10
08 25 0006	6	C 6.3	1/4	25	8	10

outside ● DIN 3126/ISO 1173

13010 Bits

for TORQ-SET® screws

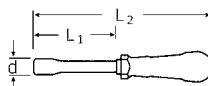


Code	TORQ-SET®	Hex	"	L mm	g	Box
08 26 0000	0	C 6.3	1/4	25	5	10
08 26 0001	1	C 6.3	1/4	25	5	10
08 26 0002	2	C 6.3	1/4	25	5	10
08 26 0003	3	C 6.3	1/4	25	5	10
08 26 0004	4	C 6.3	1/4	25	5	10
08 26 0005	5	C 6.3	1/4	25	5	10
08 26 0006	6	C 6.3	1/4	25	5	10
08 26 0008	8	C 6.3	1/4	25	5	10
08 26 0010	10	C 6.3	1/4	25	5	10
08 26 0016	1/4	C 8	5/16	32	9	10
08 26 0020	5/16	C 8	5/16	32	11	10
08 26 0024	3/8	C 8	5/16	32	11	10

outside ● DIN 3126/ISO 1173

4000 Spinner handle

- for bit screwdriver bits with outside hexagon 1/4"
- DIN 3126/ISO 1173 C 6.3
- handle of impact proof plastic
- internal hex drive with a collar-thrust spring
- 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	mm	"	d mm	L ₁ mm	L ₂ mm	g	Box
18073026	D 6.3	1/4	11	75	190	119	5

inside ○ DIN 3126/ISO 1173

4006/1 Spinner with magazine holder

- for 6 bit screwdriver bits (25 mm) with 1/4" outer hexagon
- DIN 3126/ISO 1173 C 6.3
- transparent plastic handle for storing bits with rotating selection cap
- internal hexagon and powerful permanent magnet



Code	mm	"	d mm	L ₁ mm	L ₂ mm	g	Box
18080017	D 6.3	1/4	10	120	230	124	1

inside ○ DIN 3126/ISO 1173

Bits and accessories

12504 Bit holder

- for bit screwdriver bits with outside hexagon 1/4"
- DIN 3126/ISO 1173 C 6.3
- flexible shaft



Code	mm	"	L ₁ mm	L ₂ mm	g	
18 10 30 16	D 6.3	1/4	175	290	168	10

inside DIN 3126/ISO 1173

12503 Bit holder

- for bit screwdriver bits with outside hexagon 1/4"
- DIN 3126/ISO 1173 C 6.3
- inside hexagon with magnet
- stubby version



Code	mm	"	L ₁ mm	L ₂ mm	g	
18 11 00 16	D 6.3	1/4	10	65	50	10

inside DIN 3126/ISO 1173

4007 Bit holder

- for bit screwdriver bits with outside hexagon 1/4"
- DIN 3126/ISO 1173 C 6.3
- inside hexagon with magnet
- with T-handle



Code	mm	"	d mm	L ₁ mm	L ₂ mm	g	
18 09 00 16	D 6.3	1/4	10	200	165	108	5

inside DIN 3126/ISO 1173

415B Bit ratchet

- reversible
- 22 teeth
- with 2-component handle
- with inside hexagon 1/4"
- DIN 3126/ISO 1173 D 6.3
- for bit screwdriver sockets 1/4"
- 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 10 11	117	22	12	76	5

415SGB N Bit ratchet, fine tooth

- reversible
- 80 teeth
- with steel handle
- inside hexagon 1/4"
- DIN 3126/ISO 1173 D 6.3
- for bit screwdriver sockets 1/4"
- internal hex drive with a collar-thrust spring
- 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)
- for use in confined spaces
- re-engages after movement of 4.5°
- construction without screws prevents foreign object damage



Code	L mm	b mm	a mm	g	
11 13 20 20	117	22.6	10.7	85	5

418B Mini bit ratchet, fine tooth

- short model, 90 mm
- reversible
- 80 teeth
- with steel handle
- inside hexagon 1/4"
- DIN 3126/ISO 1173 D 6.3
- for bit screwdriver sockets 1/4"
- internal hex drive with a collar-thrust spring
- 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)
- for use in confined spaces
- re-engages after movement of 4.5°
- construction without screws prevents foreign object damage



Code	L mm	b mm	a mm	g	
11 13 30 30	90	22.5	11	70	1

Foreign Object Damage.

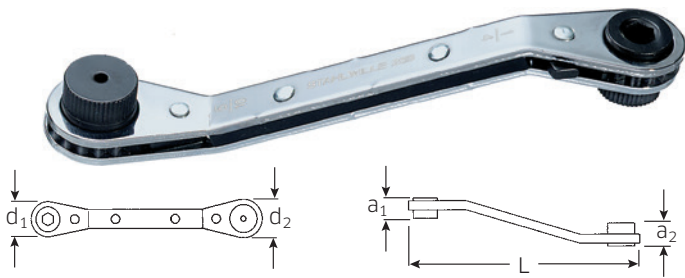
As safe as safe can be.



STAHLWILLE protects against foreign object damage. The preferred choice in safety-relevant fields such as aerospace, thanks to the screwless design.

25B Ratcheting bit holder

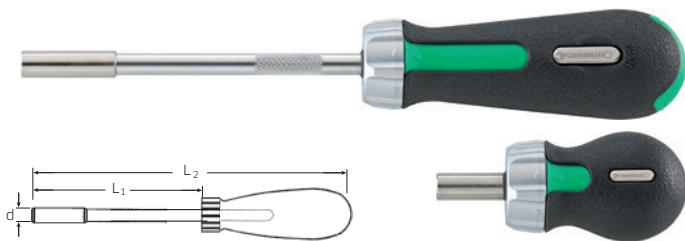
- reversible
- for hexagon bits
- magnetic location
- reversible heads angled
- chrome plated



Code	⌀"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	⊕/⊖ g	📦
41541620	1/4 x 5/16	138	20	23	15	17	105	1

4008 Ratcheting bit holder

- easy change of direction (anticlockwise, clockwise and fixed) by simply twisting the locking ring
- ergonomically designed, non-slip 2-component handle for optimum force transmission
- storage compartment for 6 bits in the handle; push button to open (size 1)
- for bit screwdriver inserts with external hex 1/4"
- DIN 3126/ISO 1173 Type C 6.3
- 1/4" sockets can be used with adaptor No 3115/1 (external hex and square drive 1/4")
- easy bit change thanks to internal hex. drive with magnet
- knurled spin section for faster screw advance
- heavy-duty mechanism with 48 teeth (7.5° working angle)



Code	size	⌀"	"	L ₁ mm	L ₂ mm	d mm	⊕/⊖ g	📦
18120001	1	D 6.3	1/4	127	250	10	220	1
18120002	2	D 6.3	1/4	25	95	10	137	1

inside ⌀ DIN 3126/ISO 1173

Ratcheting bit holders.

Fast. Flexible. Resilient.



Thanks to their ergonomic design, they provide optimum force transmission. At the same time, they incorporate such practical features as a storage compartment for 6 bits in the handle (size 1), a knurled quick-spin section and a ratchet angle of only 7.5°.

Bits and accessories

1200/1 Bit holder

- with permanent magnet 1/4" inside and outside hexagon 1/4" DIN 3126/ISO 1173 C 6.3



Code	mm	mm	"	"	L mm	g	
38120001	D 6.3	E 6.3	1/4	1/4	72	37	5

inside ○/outside ● DIN 3126/ISO 1173

3825/1 Quick-change holder

- for bit screwdriver bits with 1/4" external hexagonal drive DIN 3126/ISO 1173 C 6.3
- with quick-action chuck
- adaptor with external hexagonal drive for powered use



Code	mm	"	mm	"	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, manually operated

- 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	mm	"	mm	"	L mm	d mm	g	
31150001	A 6.3	1/4	E 6.3	1/4	50	8.9	16	5

outside ■ DIN 3120/ISO 1174-1 Type A (spring-loaded ball)
outside ● DIN 3126/ISO 1173 Type E

3115/1 Adaptor, manually operated

- 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

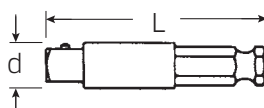


Code	mm	"	mm	"	L mm	g	
31150002	A 6.3	1/4	C 6.3	1/4	25	10	5

outside ■ DIN 3120/ISO 1174-1 Type A (spring-loaded ball)
outside ● DIN 3126/ISO 1173 Type E

3116/1-3316/1 Adaptor, machine operated

- 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 (3216/1, 3316/1)
- square drive with spring loaded locking pin
- Chrome Alloy Steel, gunmetal finish



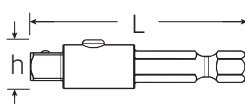
Code	No	mm	"	mm	"	L mm	d mm	g	
31160001	3116/1	E 6.3	1/4	E 6.3	1/4	50	8.9	16	5
32160001	3216/1	E 10	3/8	E 6.3	1/4	50	15.5	23	5
33160001	3316/1	E 12.5	1/2	E 6.3	1/4	50	18	34	5

outside ■ DIN 3121/ISO 1174-2 Type E (spring-loaded locking pin)
outside ● DIN 3126/ISO 1173 Type E

3116/1QR-3316/1QR QuickRelease adaptor, machine operated

QR

- 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
- Chrome Alloy Steel, gunmetal finish



Code	No	mm	"	mm	"	L mm	h mm	g	
31161001	3116/1QR	E 6.3	1/4	E 6.3	1/4	50	11.2	18	5
32161001	3216/1QR	E 10	3/8	E 6.3	1/4	50	14.6	26	5
33161001	3316/1QR	E 12.5	1/2	E 6.3	1/4	50	19.2	46	5

outside ● DIN 3126/ISO 1173 Type E

412/442/443/543 Bit holder

- square drive socket
- for hand use only
- for bit-screwdriver bits with outside hexagon 1/4" or 5/16"
- DIN3126/ISO1173 C6.3 or C8
- Chrome Alloy Steel, chrome plated
- internal hexdrive with a collar-thrust spring (registered design). Bits are easy to insert, lock securely in position and can be removed just as easily; even hexbits with a wide groove (Type E, DIN3126/ISO1173)



code	No	⌀	"	⌀	"	L mm	d mm	⚖ g	📦
11 1800 10 412		D 6.3	1/4	C 6.3	1/4	25	11.6	14	5
12 1800 26 442		D 6.3	1/4	C 10	3/8	32	16.5	30	5
12 1800 30 443		D 8	5/16	C 10	3/8	32	16.5	39	5
13 1800 10 543		D 8	5/16	C 12.5	1/2	38	22	65	5

inside ○ DIN 3126/ISO 1173
inside ○ DIN 3120/ISO 1174-1

412-1 Bit holder

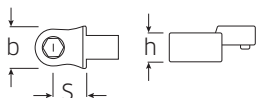
- socket, hexagon 1/4" inside hexagon
- DIN 3126/ISO 1173 D 6.3
- outer size of handle, octagon 10 mm for use in tools with 10 mm internal hex drive or internal double hexagon (e.g. "FLEXI" double-ended flexi-joint spanners, T-handle universal joint spanners, box spanners, ratchet ring spanners etc.)
- internal hex drive with a collar-thrust spring
- 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	⌀ mm	L mm	d mm	⚖ g	📦
11 1800 20	10	20	11.6	11	5

736 Bit holder insert tools

- internal hex drive with a collar-thrust spring
- 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	⌀ mm	⌀ "	⚡ mm	b mm	h mm	S mm	⚖ g
58 26 10 10 10	10	D 8	5/16	9x12	16	12.5	17.5	47
58 26 26 10 10-1	10-1	D 6.3	1/4	9x12	14	10	17.5	45

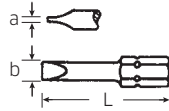
inside ○ DIN 3126/ISO 1173

Bit screwdrivers

- with outside hexagon 1/4"
- DIN 3126/ISO 1173, shape E 6.3
- for use in power drivers

1242-1250 Bit screwdrivers

- DIN 3127/ISO 2351
- for slotted screws



Code	No	a x b mm	⚡	"	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 4.0	E 6.3	1/4	50	9	10
08 30 10 55 1246		1.0 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	11	10
08 30 16 80 1250		1.6 x 8.0	E 6.3	1/4	50	14	10

outside ● DIN 3126/ISO 1173

1260-1262 Bit screwdrivers

- DIN 3128
- for Phillips screws



Code	No	PH size	⚡	"	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

1270-1272 Bit screwdrivers

- for POZIDRIV/SUPADRIV® screws



Code	No	PZ size	⚡	"	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

1290-1296 Bit screwdrivers

- for inside TORX® screws



Code	No	size	⚡	"	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


Bits and accessories

1441 TN-1446 TN Torsion bit screwdrivers

- for inside TORX® screws
- specifically developed for use with professional battery-powered impact screwdrivers
- longer service lifetimes thanks to specially designed torsional shape, flexible material and high-grade hardening
- controlled machine handling close to the screw thanks to very compact construction

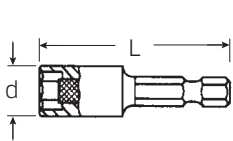


Code	No	size	⬢	"	L mm	⚖ g	📦
08 16 11 15	1441 TN 15	T 15	E 6.3	1/4	38	4	5
08 16 11 20	1442 TN 20	T 20	E 6.3	1/4	38	5	5
08 16 11 25	1443 TN 25	T 25	E 6.3	1/4	38	6	5
08 16 11 30	1445 TN 30	T 30	E 6.3	1/4	38	7	5
08 16 11 40	1446 TN 40	T 40	E 6.3	1/4	38	8	5

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	⬢	"	d mm	L mm	⚖ g	📦
2801 1007	7	E 6.3	1/4	12	50	23	5
2801 1008	8	E 6.3	1/4	13	50	26	5
2801 10 10	10	E 6.3	1/4	15.5	50	31	5
2801 10 13	13	E 6.3	1/4	18.7	50	44	5

13006 Special socket

- for use on plugs in electronic rack Airbus A320-A340



Code	⬢	"	∅ mm	L mm	⚖ g	📦
08 23 00 01	E 6.3	1/4	11	50	32	5

outside  DIN 3126/ISO 1173

4030 IMPACT driver

- with inside hexagon for bit screwdriver inserts No 4040-4058
- suitable for screws M5-M10
- torque 120 N·m



Code	⬢	L mm	⚖ g	📦
32 20 00 05	3/8	138	604	1

4035/4036 Adaptors

- with outside hexagon
- for IMPACT screwdriver No 4030



Code	No	"	L mm	⚖ g	📦
32 21 00 01	4035	3/8	38	34	1
32 31 00 01	4036	3/8	38	43	1

4040-4044 Bit screwdrivers

- for slotted screws
- for IMPACT driver No 4030



Code	No	a x b mm	"	L mm	⚖ g	📦
08 40 00 10	4040	1.0 x 7	3/8	40	17	10
08 40 00 14	4041	1.4 x 9	3/8	40	20	10
08 40 00 16	4042	1.6 x 10	3/8	40	21	10
08 40 00 20	4043	2.0 x 12	3/8	40	20	10
08 40 00 15	4044	1.5 x 13	3/8	40	24	10

4050-4052 Bit screwdrivers

- for Phillips screws (Phillips-Recess® DIN 5260)
- for IMPACT driver No 4030



code	No	PH size	⬢	L mm	⚖ g	📦
08 41 00 02	4050	2	3/8	35	17	10
08 41 00 03	4051	3	3/8	35	17	10
08 41 00 04	4052	4	3/8	35	17	10





5 TORQUE TOOLS, TORQUE TESTERS

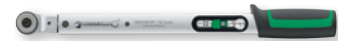
Torque screwdrivers

>> Page 118



Torque wrenches, mechanical

>> Page 122



Angle-controlled torque wrenches,
electronic

>> Page 136



Accessories torque wrenches

>> Page 149



Insert/shell tools

>> Page 151



Torque multipliers MULTIPOWER

>> Page 158



Spare parts

>> Page 160



Torque tester

>> Page 163



Calibration systems

>> Page 166



Accessories torque tester
and calibration systems

>> Page 175



As individual as your fastener. STAHLWILLE torque tools.

To ensure safety and productivity, STAHLWILLE torquing tools offer you a high degree of convenience, accurate setting and optimised ergonomic designs. The following overview is designed to help you select just the right model for your application.



e.g.
TORSIOTRONIC®

Torque screwdrivers

Clicking	Indicating	No	Range	Page
	•	760	15-600 cN·m	120
•		775	2-1000 cN·m	120
•	•	TORSIOTRONIC®	12-1000 cN·m	121

5

Torque wrenches

Clicking	Indicating	No	Range	Page
	•	71	160-800 N·m	122
	•	73Nm/15	2-15 N·m	123
•		755	1.5-300 N·m	123
•		730 Quick	4-650 N·m	126
•		730/80	160-800 N·m	126
•		721 Quick	6-300 N·m	127
•		720Nf	160-800 N·m	128
•		721Nf	160-1000 N·m	128
•		730N	4-1000 N·m	132, 133
•		730 Fix	10-1000 N·m	133
	•	701	1-20 N·m	135
•	•	730D	10-1000 N·m	138, 139
	•	712R/6	3-60 N·m	148



e.g.
MANOSKOP® 730 Quick

Tightening angle torque wrenches

Clicking	Indicating	No	Range	Page
•	•	714	1-1000 N·m	144, 145
	•	713R	3-400 N·m	148



e.g.
MANOSKOP® 714



STAHLWILLE's calibration laboratory - accredited by the highest authority. Controlled bolt tightening is an essential aspect of operating safety and the durability of screws and bolts. Put your trust in STAHLWILLE's DAKS calibration laboratory. For all your torquing tools and testers.

More details on page 162



Insert & shell tools

System		Page
9x12 mm	9x12	151 - 154
14x18 mm	14x18	153 - 156
22x28 mm	22x28	155
24.5x28 mm	24.5x28	155, 156



Torque multipliers

No	Range	Page
MP100-1500	100-1500 N·m	158
MP300	800-5000 N·m	158



e.g.
perfectControl 7794-2

Testers & calibration systems

No	Range	Page
SmartCheck	1-800 N·m	163
7707 W Torque Tester	0.2-1100 N·m	164
7791 / 7792 Manutork	1-3000 N·m	167 - 169
7794 perfectControl	1-1000 N·m	171 - 173
Accessories		175 - 177

Electronics and mechanics: the perfect symbiosis. **TORSIOTRONIC®.**



TORSIOTRONIC® - this is the name behind the first electromechanical torque screwdriver in the world. The patented trigger system, based on a ball mechanism, trips with audible and tactile signals when the target torque is reached. The tool measures as accurately as only an electronic torque tool can. The fine-tooth ratchet, a wide range of programming options and a micro-USB port make the TORSIOTRONIC the ideal tool when it comes to logging work steps, applying very small torques or following complex tightening sequences.

UNIQUE.

The first electromechanical torque screwdriver on the market - combines the accuracy of electronic measurement with the convenience of the »click« from mechanical trigger mechanisms.



CLOCKWISE. OR ANTICLOCKWISE.

Whether the tool is set to indicating only or clicking - both modes can be applied clockwise or anticlockwise.





SENSITIVE.

Integrated ratcheting bit-holder with 80 teeth that provide a particularly small ratchet angle of only 4.5° and thus enable particularly sensitive working – ideal for hard-to-reach fasteners. The 1/4" male square allows the direct application of sockets, while the bit holder supplied allows tightening with screwdriver bits.

SAFE.

After the tool trips, the slip mechanism prevents the preset tightening torque from being inadvertently exceeded, which protects against overtightening.

INTUITIVELY SIMPLE.

Easy learning curve thanks to almost self-explanatory controls and an easily understood menu structure.

READY WHEN YOU ARE.

Long-lasting battery charge with battery-saving stand-by mode. Always ready for use thanks to quick and easy to change externally charged battery.



BRILLIANT.

Clear display of all the relevant information in a bright, battery-saving colour OLED display – readable at almost any angle.



LOGGING FUNCTION.

Stores up to 2500 fasteners for reading out and documenting on the PC later by means of the integrated micro-USB port.

Torque tools

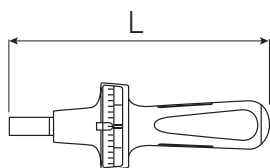
Torque screwdrivers

TORSIOMETER 760

- indicating type
- the measuring element is a torsional leaf spring
- clockwise tightening (with trailing pointer) and anticlockwise tightening
- with 1/4" internal hex drive (F 6.3 DIN 3126)
- comparative scale in in·lb and cursor
- inserts and adaptors with external hex E 6.3 (1/4")
- DIN 3126/ISO 1173 are securely held and firmly controlled in the mounting shaft (for bit screwdriver inserts, refer to page 111)
- to attach 1/4" sockets, please order adaptor No 3115 (refer to page 110)
- certificate in accordance with DIN EN ISO 6789-2:2017
- **display deviation value ± 4%**

760

Torque screwdrivers TORSIOMETER



Code	size				Ø mm	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	225
51040015	15	30-150 cN·m	3-13 in·lb	5 cN·m	F 6.3	185	225
51040030	30	60-300 cN·m	6-26 in·lb	10 cN·m	F 6.3	185	230
51040060	60	120-600 cN·m	12-52 in·lb	20 cN·m	F 6.3	185	230

5

TORSIOMAX 775

- click-type
- for torque-controlled bolt tightening in the cN·m and in·lb ranges
- for one-off or production runs
- anticlockwise and clockwise tightening
- with 1/4" internal hex drive (F 6.3 DIN 3126/ISO1173)
- infinitely variable via micrometer scale (twist scale)
- disengaging clutch coupling prevents the preset value being exceeded
- the shape of the handle and its surface texture ensure safe and accurate transmission of torque
- insert tools: For all 1/4" hex E 6.3, Phillips-head screws, POZIDRIV/SUPADRIV®, straight-slot, TORX®, hex bits (see pp. 111)
- certificate in accordance with DIN EN ISO 6789-2:2017
- **display deviation value ± 6%**

775

Torque screwdrivers TORSIOMAX



Code	size			Ø mm	L mm	Δ g
51060003	3 ¹⁾	2-30 cN·m	0.2 cN·m	F 6.3	105	55
51060012	12 ²⁾	20-120 cN·m	1 cN·m	F 6.3	157	180
51060030	30 ²⁾	40-300 cN·m	1 cN·m	F 6.3	160	205
51060050	50 ²⁾	100-500 cN·m	2.5 cN·m	F 6.3	205	420
51060100	100 ³⁾	400-1000 cN·m	5 cN·m	F 6.3	235	630
51460003	a/3 ¹⁾	0.2-3 in·lb	0.02 in·lb	F 6.3	105	55
51460012	a/12 ²⁾	2-12 in·lb	0.1 in·lb	F 6.3	157	200
51460050	a/50 ²⁾	10-50 in·lb	0.25 in·lb	F 6.3	205	440

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

TORSIOTRONIC®

- indicating and click-type
- integrated ratcheting bit-holder with 80 teeth that provide a particularly small ratchet angle of only 4.5° and thus enable particularly sensitive working – ideal for hard-to-reach fasteners
- after the tool trips, the slip mechanism prevents the preset tightening torque from being inadvertently exceeded, which protects against overtightening
- clear display of all the relevant information in a bright, battery-saving colour OLED display – readable at almost any angle
- visual assessment of the torqueing action by means of the traffic light colours in the display and laterally placed LEDs
- display in a number of languages
- long-lasting battery charge with battery-saving stand-by mode. The rechargeable batteries can be quickly and easily changed.
- stores up to 2500 fasteners and sequences for reading out and documenting on the PC later by means of the integrated micro-USB interface
- the target torque and tolerances can be individually set to evaluate the readings
- easy learning curve thanks to almost self-explanatory controls and an easily understood menu structure
- three operating modes (first peak, track, peak hold)
- tactile, visual and acoustic trigger signals.
- the ergonomically designed convex handle promotes strain-free working and is resistant to oils, grease, fuels, brake fluids and Skydrol
- clockwise and anticlockwise operation
- with 1/4" male square drive (6.3 DIN 3120/ISO 1174-1) for 1/4" sockets
- with 1/4" female square drive in the handle end (6.3 DIN 3120/ISO 1174-1) for attaching a 1/4" T-bar
- units of measure: cN·m, N·m, ft·lb, in·lb, in·oz
- included in the set: SENSOMASTER 4 software, USB cable, bit holder, T-bar handle (size 10)
- supplied with 3.6 V lithium battery, type 18650, packaged according to UN 3480
- patented
- certificate in accordance with DIN EN ISO 6789-2:2017
- in robust plastic case
- **display deviation value ± 4%**

5

TORSIOTRONIC Electromechanical torque screwdrivers

NEW

80 4.5°



TORSIOTRONIC® 10

Code	size						L mm	Δ g	Δ g with box
96510712	1.2	12-120 cN·m	0.12-1.2 N·m	0.08-0.885 ft·lb	1.06-10.7 in·lb	16.9-169.9 in·oz	317	569	1494
96510730	3	30-300 cN·m	0.3-3 N·m	0.2-2.3 ft·lb	2.6-26.6 in·lb	42-425 in·oz	317	570	1502
96510760	6	60-600 cN·m	0.6-6 N·m	0.4-4.45 ft·lb	5.3-53.1 in·lb	84.5-849.5 in·oz	317	572	1508
96510700	10	100-1000 cN·m	1-10 N·m	0.7-7.3 ft·lb	8.8-88.5 in·lb	141-1417 in·oz	317	575	1616
96511712	1.2	12-120 cN·m	0.12-1.2 N·m	0.08-0.885 ft·lb	1.06-10.7 in·lb	16.9-169.9 in·oz	317	523	1448
96511730	3	30-300 cN·m	0.3-3 N·m	0.2-2.3 ft·lb	2.6-26.6 in·lb	42-425 in·oz	317	524	1456
96511760	6	60-600 cN·m	0.6-6 N·m	0.4-4.45 ft·lb	5.3-53.1 in·lb	84.5-849.5 in·oz	317	526	1462
96511700	10	100-1000 cN·m	1-10 N·m	0.7-7.3 ft·lb	8.8-88.5 in·lb	141-1417 in·oz	317	529	1570

96 51 17 12 - 96 51 17 00: As for 96 51 07 12 - 96 51 07 00, but without accu (not hazardous)

Torque tools

MANOSKOP® 71

- indicating type
- mount for interchangeable shell tools
- all 14 x 18 mm insert tools can also be used with insert tool adaptor No 7370/80 (max. 650 N·m)
- trailing pointer dial
- twin scales N·m/ft·lb
- scale is made of luminescent light yellow special film enabling clear readings even in poor light conditions
- handle with integrated force compensator
- measuring element is a bending plate housed in the handle

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- with overload protection
- can be applied for either clockwise or anticlockwise tightening by turning the wrench over
- calibration using perfectControl® calibrating unit No 7794 or calibration system No 7706. Adjustment without disassembly
- certificate in accordance with DIN EN ISO 6789-2:2017
- supplied in textile bag
- **display deviation value ± 4%**

71/80 MANOSKOP® torque wrench with dial gauge and mount for shell tools



Code						b mm	h mm	L mm	L _F mm	S _F mm	$\Delta\Delta$ g
50030080	160-800 N·m	120-600 ft·lb	10 N·m	10 ft·lb	24,5x28	28	24	1048	1050	95	2300

MANOSKOP® 71 with permanently installed reversible ratchet

- indicating type
- trailing pointer dial
- twin scales N·m/ft·lb
- scale is made of luminescent light yellow special film enabling clear readings even in poor light conditions
- additional protection for the gauge by the protective ring
- handle with integrated force compensator

- not for anticlockwise measurement
- calibration using perfectControl® calibrating unit No 7794 or calibration system No 7706. Adjustment without disassembly
- certificate in accordance with DIN EN ISO 6789-2:2017
- supplied in textile bag
- **display deviation value ± 4%**

71aR/80 MANOSKOP® torque wrench with dial gauge and permanently installed ratchet

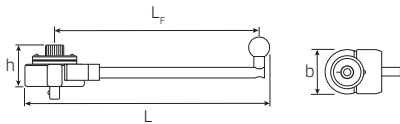


Code					"	b mm	h mm	L mm	L _F mm	$\Delta\Delta$ g
50450080	100-600 ft·lb	160-800 N·m	10 ft·lb	10 N·m	3/4	70	30	1152	1060	4900

Friction gauge

- indicating type
- permanently installed square drive for clockwise use
- trailing pointer dial
- no "needle wobble" during measurements
- lighter construction due to use of aluminium
- certificate in accordance with DIN EN ISO 6789-2:2017
- display deviation value $\pm 4\%$**

73Nm/15 Friction gauge



Code			"	b mm	h mm	L mm	L _F mm	$\Delta\%$ g
50240015	2-15 N·m	0.5 N·m	1/2	72	50	298.5	250	676

Industrial MANOSKOP® 755

For work on production lines or series production. No setting scale; have to be set with testers such as the STAHLWILLE No 7707 W, SmartCheck tester or the No 7794, No 7706 calibration system.

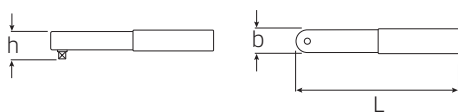
- click-type
- mount for interchangeable insert tools (755/4-30)
- dual stop signal
- particularly light and easy to handle
- handle and shank are made of square tubular steel
- any force applied to the tool after the 'click' or applied in the opposite direction to the current function (up to the maximum of the wrench's range) does not act on the trigger mechanism and cannot cause damage to it
- anticlockwise torquing thanks to swap-over insert tools
- on request with preset cut-out value (surcharge 10%)
- display deviation value $\pm 4\%$**

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5

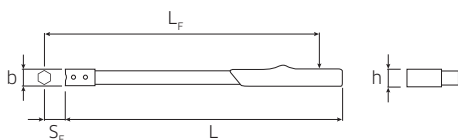
755R/1 Series MANOSKOP® torque wrench with permanently installed ratchet

- measurements independent of the point of application of force



Code			"	b mm	h mm	L mm	$\Delta\%$ g
50100001	1.5-12.5 N·m	1.0-9.0 ft·lb	1/4	22	18	173.5	335

755 Series MANOSKOP® torque wrenches with mount for insert tools

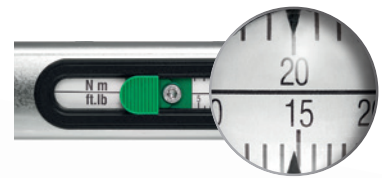


Code	size				b mm	h mm	L mm	L _F mm	S _F mm	$\Delta\%$ g
50010004	4	4-40 N·m	4-30 ft·lb	9x12	22	18	201	172	17.5	500
50010010	10	20-100 N·m	15-74 ft·lb	9x12	28	24	318	289	17.5	635
50010020	20	40-200 N·m	30-147 ft·lb	14x18	28	24	457	435	25	1045
50010030	30	60-300 N·m	40-220 ft·lb	14x18	28	24	609	587	25	1210

Versatile and quick. MANOSKOP® 730 Quick.



Anyone in need of a mechanical torque wrench that can be quickly set for the next operation will find the MANOSKOP® 730 Quick the ideal helper. Thanks to its flexible range of 4 – 650 N·m and the interchangeable insert tools (9 x 12 mm, 14 x 18 mm and 22 x 28 mm), the MANOSKOP® Quick is remarkably versatile – and quicker than ever: as a result of the much improved ergonomics and accessibility to the essential controls, the target torque is set in seconds.



EXACT.

The design, with opposing V-shaped »sights« and an integrated magnifier, facilitates fast, accurate setting even at an awkward reading angle. With a Vernier scale in N·m/ft·lb or N·m/in·lb.

PROTECTED.

The internal mechanism is extremely resistant to mechanical wear and well protected against dirt and soiling inside the outer housing.



FAST.

Rapid setting thanks to the easy-action locking lever in the handle. Ergonomically designed, non-slip adjuster with a thumb recess for fast, safe setting of the slider.



WEAR-RESISTANT.

Wear resistant trigger system with a flexible rod. In contrast to conventional torque wrenches, it is not necessary to reset the wrench to zero after each job to unload the spring. In this way, users benefit from long-term accuracy and safe measurement results with less time required.



SAFE.

QuickRelease safety lock guarantees secure locking of insert tools on sizes 5 - 65 and fast removal.

COMPACT.

Compact and space-saving, the MANOSKOP® 730 Quick torque wrenches are available in sizes 2 and 4. They feature the same measuring and trigger technology as their »big brother«, and are just as precise and reliable.



SIMPLE.

Quick adjustment from outside, no disassembly of the torque wrench required, with two adjustment points for the maximum & minimum values.



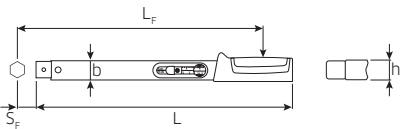
Torque tools

Service MANOSKOP® 730

- click-type
- the measuring element is only under load while force is being applied, no need for manual reset to zero
- mount for interchangeable insert/shell tools
- QuickRelease safety lock (sizes 5-65)
- rapid setting thanks to easy-action locking lever in the handle (sizes 5-65)
- ergonomically designed, non-slip adjuster with a thumb recess
- magnifying glass integrated in the display window
- optimised convex handle for strain-free working
- dual stop signal
- twin scales N·m/ft·lb and N·m/in·lb (sizes 5-80)
- on request also available as an N·m-only version without twin scale (sizes 5-65)
- can be applied for either clockwise or anticlockwise tightening by turning the inserts over
- 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
- calibration using perfectControl® calibrating unit No 7794 or calibration system No 7706. Readjustment does not require disassembly.
- certificate in accordance with DIN EN ISO 6789-2:2017
- **display deviation value ± 4%**

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730 Quick Service MANOSKOP® torque wrenches with mount for insert tools

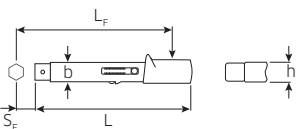


Code	size					mm	b mm	h mm	L mm	L _F mm	S _F mm	
						mm	mm	mm	mm	mm	mm	g
50184005	5	6-50 N·m	5-36 ft·lb	2 N·m	1 ft·lb	9x12	28	23	315	288	17.5	780
50184010	10	20-100 N·m	15-72.5 ft·lb	2.5 N·m	2.5 ft·lb	9x12	28	23	370	343	17.5	936
50184012	12	25-130 N·m	20-95 ft·lb	2.5 N·m	2.5 ft·lb	14x18	28	23	410	390	25	1074
50184020	20	40-200 N·m	30-145 ft·lb	5 N·m	5 ft·lb	14x18	28	23	455	435	25	1310
50184040	40	80-400 N·m	60-300 ft·lb	10 N·m	10 ft·lb	14x18	28	23	590	570	25	1540
50184065	65 ¹⁾ 2)	130-650 N·m	100-480 ft·lb	20 N·m	20 ft·lb	14x18	30.6	25.6	875	855	25	3192
50184565	II/65 ²⁾	130-650 N·m	100-480 ft·lb	20 N·m	20 ft·lb	22x28	30.6	25.6	897	907	55	4104
50584005	a/5	6-50 N·m	50-440 in·lb	2 N·m	10 in·lb	9x12	28	23	315	288	17.5	780
50584010	a/10	20-100 N·m	180-880 in·lb	2.5 N·m	20 in·lb	9x12	28	23	370	343	17.5	934
50584012	a/12	25-130 N·m	225-1150 in·lb	2.5 N·m	25 in·lb	14x18	28	23	410	390	25	1076
50584020	a/20	40-200 N·m	350-1750 in·lb	5 N·m	50 in·lb	14x18	28	23	455	435	25	1216

¹⁾ recommended ratchet insert tool No 735/40HD
²⁾ supplied in textile bag

730 Quick Service MANOSKOP® torque wrenches with tool carrier for insert tools

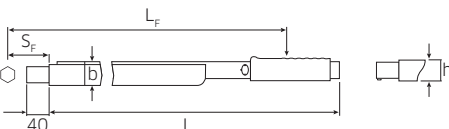
NEW



Code	size					mm	b mm	h mm	L mm	L _F mm	S _F mm	
						mm	mm	mm	mm	mm	mm	g
50184002	2	4-20 N·m		0.5 N·m		9x12	27.5	23.6	179	157.2	17.5	315
50184004	4	8-40 N·m		1 N·m		9x12	27.5	23.6	223	200.8	17.5	395
50584001	a/2-1	17.5-87.5 in·lb		2.5 in·lb		9x12	27.5	23.6	179	157.2	17.5	315
50584002	a/2	30-175 in·lb		5 in·lb		9x12	27.5	23.6	179	157.2	17.5	315
50584004	a/4	70-350 in·lb		10 in·lb		9x12	27.5	23.6	223	200.8	17.5	395

730/80 Service MANOSKOP® torque wrench with mount for shell tools

- supplied in textile bag
- use shell adaptor No 7370/80 to make 14 x 18 mm insert tools fit

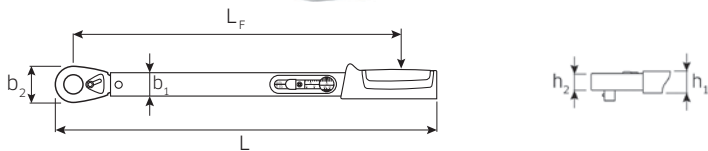


Code						mm	b mm	h mm	L mm	L _F mm	S _F mm	
						mm	mm	mm	mm	mm	mm	g
50180080	160-800 N·m	120-600 ft·lb	20 N·m	20 ft·lb		24.5x28	46	43	970	990	95	4925

Standard MANOSKOP® 721 Quick

- click-type
- the measuring element is only under load while force is being applied, no need for manual reset to zero
- rapid setting thanks to easy-action locking lever in the handle
- ergonomically designed, non-slip adjuster with a thumb recess
- magnifying glass integrated in the display window
- dual stop signal
- twin scales N·m/ft·lb
- optimised convex handle for strain-free working
- 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
- all the sensitive components are protected by the sturdy tubular steel housing
- calibration using perfectControl® calibrating unit No 7794 or calibration system No 7706. Readjustment does not require disassembly.
- certificate in accordance with DIN EN ISO 6789-2:2017
- **display deviation value ± 4%**

721 Quick Standard MANOSKOP® torque wrenches with permanently installed ratchet

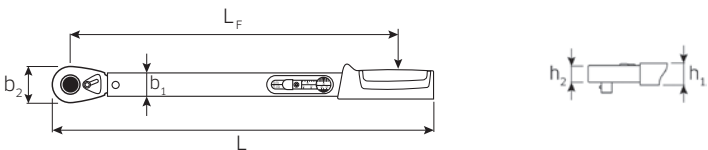


Code	size					"	b ₁ mm	b ₂ mm	h ₁ mm	h ₂ mm	L mm	L _F mm	⊘ g
50 20 40 05	5	6-50 N·m	5-36 ft·lb	2 N·m	1 ft·lb	3/8	28	27.5	23	14.5	352	293	880
50 20 40 15	15	30-150 N·m	25-110 ft·lb	5 N·m	5 ft·lb	1/2	28	41	23	18	452	387	1282
50 20 40 20	20	40-200 N·m	30-145 ft·lb	5 N·m	5 ft·lb	1/2	28	41	23	18	483	418	1349
50 20 40 30	30	60-300 N·m	50-220 ft·lb	10 N·m	10 ft·lb	1/2	28	44	23	27.5	553	486	1646

size 30 with push through square drive for anticlockwise torquing (spare square drive, refer to page 161)

721QR Quick Standard MANOSKOP® torque wrenches with permanently installed QuickRelease ratchet

QR



Code	size					"	b ₁ mm	b ₂ mm	h ₁ mm	h ₂ mm	L mm	L _F mm	⊘ g
50 20 41 15	15	30-150 N·m	25-110 ft·lb	5 N·m	5 ft·lb	1/2	28	41	23	18	452.5	387	1268
50 20 41 20	20	40-200 N·m	30-145 ft·lb	5 N·m	5 ft·lb	1/2	28	41	23	18	482	416.5	1338

721QR/20/3/1 Wheel-fitting set Quick

QR

- in sturdy plastic box
- Content 5 pieces:
 - 1 standard MANOSKOP® No 721QR/20 Quick, 40-200 N·m, 30 - 150 ft·lb, with permanently installed QuickRelease ratchet, reversible, 1/2" ■-drive
 - 3 wheel nut sockets No 51IMP K, sizes 17 (green), 19 (blue), 20.8 mm (red)
 - 1 extension No 509QR/5, 130 mm



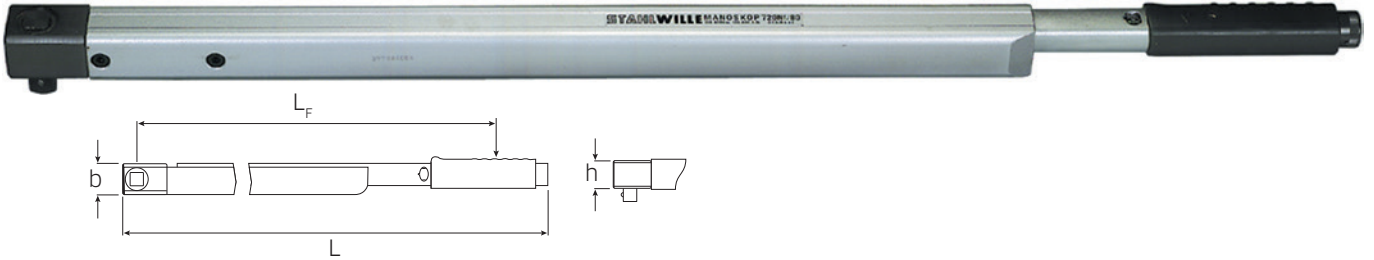
Code	⊘ g
96 50 72 14	2818

Torque tools

Standard MANOSKOP® 720Nf/721Nf

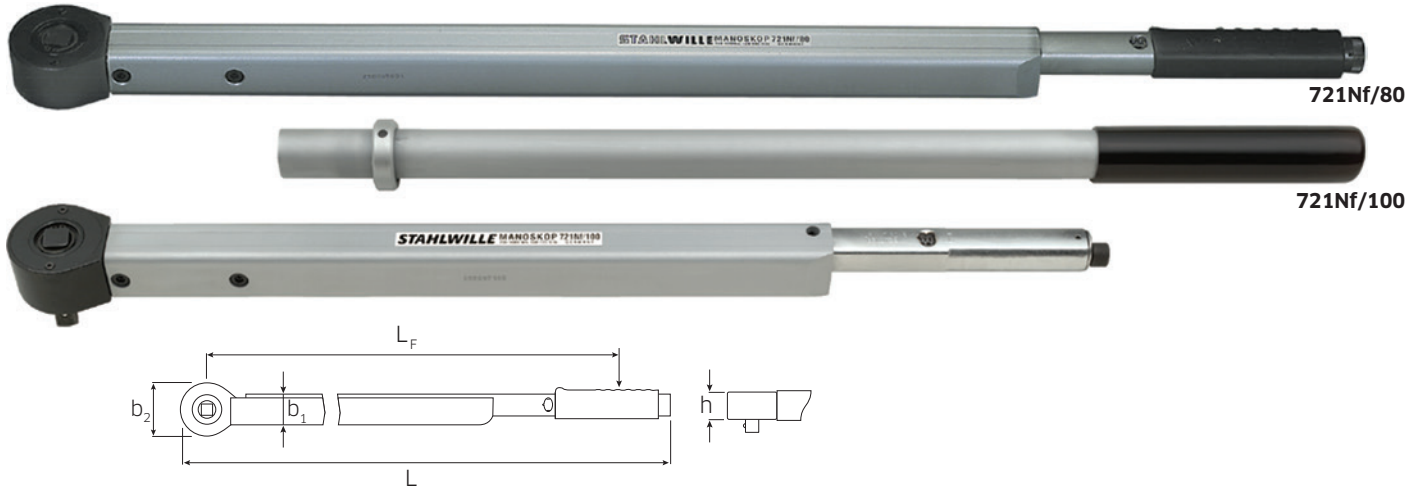
- click-type
- easy setting
- dual stop signal
- twin scales N·m/ft·lb
- anticlockwise torquing thanks to swap-over square drive
- all the sensitive components are protected by the sturdy tubular steel housing in the U-shaped aluminium profile
- calibration using perfectControl® calibrating unit No 7794 or calibration system No 7706. Readjustment does not require disassembly.
- certificate in accordance with DIN EN ISO 6789-2:2017
- supplied in textile bag
- **display deviation value ± 4%**

720Nf/80 Standard MANOSKOP® torque wrench with permanently installed square drive



Code					"	b mm	h mm	L mm	L _F mm	∅ g
50190081	160-800 N·m	120-600 ft·lb	20 N·m	20 ft·lb	3/4	45	42	1034	938	5650

721Nf Standard MANOSKOP® torque wrenches with permanently installed ratchet



Code	size					"	b ₁ mm	b ₂ mm	h mm	L mm	L _F mm	∅ g
50200081	80	160-800 N·m	120-600 ft·lb	20 N·m	20 ft·lb	3/4	46.5	76	42	1051	938	6380
96502001	100	200-1000 N·m	150-725 ft·lb	25 N·m	25 ft·lb	3/4	46.5	76	42	1504	1365	7010

730R/40/32 Quick Torque wrench set

- in steel case
 - for general service work
- Content 32 pieces:
- 1 Service-MANOSKOP® No 730/40 Quick, 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
 - 7 open ended insert tools No 731/40: 13; 15; 17; 19; 22; 27; 30 mm
 - 1 open ended insert tool No 3731/40, 24 mm
 - 7 ring insert tools No 732/40: 13; 15; 17; 19; 22; 24; 27 mm
 - 10 sockets, bi-hexagon No 50: 13; 14; 15; 17; 19; 22; 24; 27; 30; 32 mm
 - 4 accessories, 1/2" ■-drive:
 - 1 T-handle No 506
 - 1 extension No 509/10, 255 mm
 - 1 extension No 509/5, 130 mm
 - 1 extension No 509/2, 55 mm



code	∅ g	
96502053	9739	1

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.

$$W_k = \frac{M_A \cdot L_F}{L_k} \left[\frac{\text{N} \cdot \text{m} \cdot \text{mm}}{\text{mm}} \right]$$

$$W_k = \frac{M_A \cdot L_F}{L_F - S_F + S \text{ (or } \Sigma S)}$$

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)

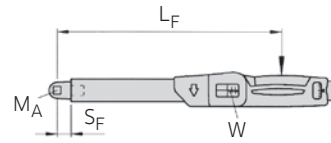
S = extension of STAHLWILLE inserts or special tools (see dimension table for inserts)

S_F = standard extension (see dimension table for torque wrenches)

ΣS = total of all extensions of the attached inserts $S_{\text{adapter}} + S_{\text{insert}} + \dots$

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 $M_A = 40 \text{ N} \cdot \text{m}$



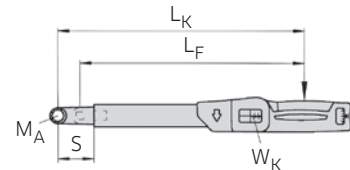
Dimension table for torque wrenches: $L_F = 336 \text{ mm}$, $S_F = 17.5 \text{ mm}$
 Dimension table for square drive insert tools: $S = 17.5 \text{ mm}$

No adjustment to setting value required on torque wrench.

$\rightarrow S = S_F$
 $\rightarrow W = M_A$

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 $M_A = 190 \text{ N} \cdot \text{m}$



Dimension table for torque wrenches: $L_F = 424.5 \text{ mm}$, $S_F = 25 \text{ mm}$
 Dimension table for ring insert tools: $S = 28 \text{ mm}$

And this is what it looks like in the catalogue:

730N Service MANOSKOP® torque wrenches with mount for insert tools

- mount for interchangeable insert tools
- QuickRelease safety lock
- can be applied for either clockwise or anticlockwise tightening by turning the inserts over
- display deviation value $\pm 3\%$ (size 2; a/2 4 %)

Code	size	mm	in	lbf	ft	Fine scale	b	h	L	L _F	S _F	Ø _A				
		mm	in	ft	lb	mm	mm	mm	mm	mm	mm	g				
50181102	2	4-20	Nm	40-180	in lb	1 N·m	10	in	0.2	N·m	28	23	275	226	17.5	737
50181005	5	10-50	Nm	7-37	ft lb	5 N·m	1	ft	0.25	N·m	28	23	300	280.5	17.5	831
50181010	10	20-100	Nm	15-75	ft lb	10 N·m	2.5	ft	0.5	N·m	28	23	386	336	17.5	988
50181012	12	25-130	Nm	20-95	ft lb	10 N·m	2.5	ft	0.5	N·m	28	23	421	379	25	1128
50181020	20	40-200	Nm	30-150	ft lb	10 N·m	5	ft	1	N·m	28	23	467	424.5	25	1264
50181040	40	80-400	Nm	60-300	ft lb	20 N·m	10	ft	2	N·m	28	23	607	564.5	25	1655
50181065	65	130-650	Nm	100-480	ft lb	50 N·m	20	ft	2.5	N·m	30.6	25.6	890	848	25	3231
50181365	II/65	130-650	Nm	100-480	ft lb	50 N·m	20	ft	2.5	N·m	30.6	25.6	911	900	55	3504
50181080	80	160-800	Nm	120-600	ft lb	100 N·m	25	ft	5	N·m	30.6	25.6	1178	1167	55	4825
50181100	100	200-1000	Nm	150-750	ft lb	100 N·m	25	ft	5	N·m	30.6	25.6	1363	1352	55	5000
50581102	a/2	40-180	in lb	3-15	ft lb	10 in lb	0.5	ft	2	in lb	28	23	275	226	17.5	737
50581005	a/5	90-450	in lb	7-37	ft lb	50 in lb	1	ft	2.5	in lb	28	23	330	280.5	17.5	831

732/40 Ring insert tools

Code	Ø	b	h	S	Ø _A	
	mm	mm	mm	mm	g	
58224013	13	16x18	22.5	11	25	130
58224014	14	16x18	23	11	25	123
58224015	15	16x18	24	11	25	128
58224016	16	16x18	25.5	12	25	133
58224017	17	16x18	27	12	25	135
58224018	18	16x18	29	13	25	134
58224019	19	16x18	30.5	13	25	145
58224021	21	16x18	33	15	25	144
58224022	22	16x18	34.5	15	25	145
58224024	24	16x18	37.5	15	25	153
58224027	27	16x18	42.5	17	25	162
58224028	28	16x18	45.5	19	25	175
58224030	30	16x18	46	19	25	182
58224032	32	16x18	47.5	19	25	181
58224034	34	16x18	52	19	28	210
58224036	36	16x18	54	19	28	203

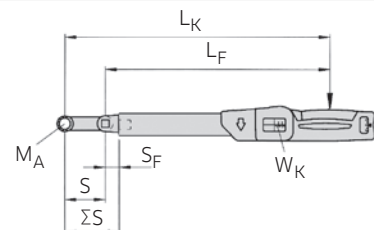
$$W_k = \frac{M_A \cdot L_F}{L_F - S_F + S} = \frac{190 \text{ N} \cdot \text{m} \cdot 424.5 \text{ mm}}{424.5 \text{ mm} - 25 \text{ mm} + 28 \text{ mm}} = \frac{190 \text{ N} \cdot \text{m} \cdot 424.5 \text{ mm}}{427.5 \text{ mm}} = 188.7 \text{ N} \cdot \text{m}$$

Adjusted setting value $W_k = 188.7 \text{ N} \cdot \text{m}$
 \rightarrow value to set 189 N·m

$\rightarrow S \neq S_F$
 $\rightarrow W \neq M_A$

Example 2: adjusted reading (insert tool and adapter)

Torque wrench No 730N/10 combined with square drive insert tool No 734/5 and adapter No 447 size 10 mm.
Required tightening torque for the screw $M_A = 25 \text{ N} \cdot \text{m}$



Dimension table for torque wrenches: $L_F = 336 \text{ mm}$, $S_F = 17.5 \text{ mm}$
 Dimension table for square drive insert tools: $S_F = 17.5 \text{ mm}$
 Dimension table for adapters: $\Sigma S = 50.8 \text{ mm}$

$$W_k = \frac{M_A \cdot L_F}{L_F - S_F + \Sigma S} = \frac{25 \text{ N} \cdot \text{m} \cdot 336 \text{ mm}}{336 \text{ mm} - 17.5 \text{ mm} + 17.5 \text{ mm} + 50.8 \text{ mm}} = \frac{25 \text{ N} \cdot \text{m} \cdot 336 \text{ mm}}{386.8 \text{ mm}}$$

Adjusted setting value $W_k = 21.7 \text{ N} \cdot \text{m}$

$\rightarrow \Sigma S \neq S_F$
 $\rightarrow W \neq M_A$

Strong and highly talented. **MANOSKOP® 730N.**



The mechanical MANOSKOP® 730N torque wrench features an extremely wide range and is suitable for accurate application up to 1000 N·m. Its QuickSelect technology makes setting the target torque particularly easy - and very accurate. Unlock, set and lock the control knob in the end of the handle. The audible and tactile mechanism and the fine adjustment ring scale simplify setting.

CLICKING.

When the target torque is reached, MANOSKOP® 730N provides a noticeable tactile dual stop signal.



Square drive for use with insert tools in a range of formats (9 x 12 mm, 14 x 18 mm and 22 x 28 mm).



USER FRIENDLY.

Accurate QuickSelect one-handed setting - quick & easy control using the knob at the end of the handle.
Unlock. Set. Lock.



UNCOMPLICATED.

Quick adjustment from outside, no disassembly of the torque wrench required, with two adjustment points for the maximum & minimum values.



SAFE.

The QuickRelease safety interlock guarantees secure linking but quick release for changing the insert tools.



WEAR-RESISTANT.

Wear resistant trigger system with a flexible rod. In contrast to conventional torque wrenches, it is not necessary to reset the wrench to zero after each job to unload the spring. In this way, users benefit from long-term accuracy and safe measurement results with less time required.

CLEAR VIEW.

Easy-to-read dual scale with colour differentiation between the N-m and ft.lb scales to simplify fine setting.



Torque tools

Service MANOSKOP® 730N

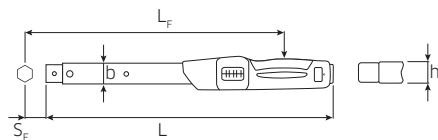
- click-type
- the measuring element is only under load while force is being applied, no need for manual reset to zero
- fast, accurate setting thanks to QuickSelect quick-action adjuster
- dual stop signal
- easy-to-read double scale with colour coding to differentiate between N·m/ft·lb and ft·lb/in·lb scales
- 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
- two-component handle with ergonomically designed green softer layers (resistant to oils, grease, fuels, brake fluids and skydrol)
- calibration using perfectControl® calibrating unit No 7794 or calibration system No 7706. Readjustment does not require disassembly.
- certificate in accordance with DIN EN ISO 6789-2:2017
- supplied in textile bag (from size 65)
- registered design

730N Service MANOSKOP® torque wrenches with mount for insert tools

- mount for interchangeable insert tools
- QuickRelease safety lock

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- can be applied for either clockwise or anticlockwise tightening by turning the inserts over
- display deviation value $\pm 3\%$ (size 2; a/2 4%)



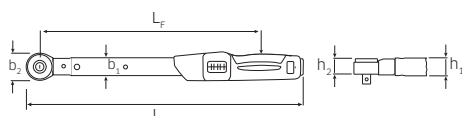
Code	size					Fine scale		b mm	h mm	L mm	L _F mm	S _F mm	$\Delta\varnothing$ g
50181102	2	4-20 N·m	40-180 in·lb	1 N·m	10 in·lb	0.2 N·m	9x12	28	23	275	226	17.5	737
50181005	5	10-50 N·m	7-37 ft·lb	5 N·m	1 ft·lb	0.25 N·m	9x12	28	23	330	280.5	17.5	831
50181010	10	20-100 N·m	15-75 ft·lb	10 N·m	2.5 ft·lb	0.5 N·m	9x12	28	23	386	336	17.5	988
50181012	12	25-130 N·m	20-95 ft·lb	10 N·m	2.5 ft·lb	0.5 N·m	14x18	28	23	421	379	25	1128
50181020	20	40-200 N·m	30-150 ft·lb	10 N·m	5 ft·lb	1 N·m	14x18	28	23	467	424.5	25	1264
50181040	40	80-400 N·m	60-300 ft·lb	20 N·m	10 ft·lb	2 N·m	14x18	28	23	607	564.5	25	1655
50181065	65*	130-650 N·m	100-480 ft·lb	50 N·m	20 ft·lb	2.5 N·m	14x18	30.6	25.6	890	848	25	3231
50181365	II/65	130-650 N·m	100-480 ft·lb	50 N·m	20 ft·lb	2.5 N·m	22x28	30.6	25.6	911	900	55	3504
50181080	80	160-800 N·m	120-600 ft·lb	100 N·m	25 ft·lb	5 N·m	22x28	30.6	25.6	1178	1167	55	4825
50181100	100	200-1000 N·m	150-750 ft·lb	100 N·m	25 ft·lb	5 N·m	22x28	30.6	25.6	1363	1352	55	5000
50581102	a/2	40-180 in·lb	3-15 ft·lb	10 in·lb	0.5 ft·lb	2 in·lb	9x12	28	23	275	226	17.5	737
50581005	a/5	90-450 in·lb	7-37 ft·lb	50 in·lb	1 ft·lb	2.5 in·lb	9x12	28	23	330	280.5	17.5	831
50581010	a/10	180-900 in·lb	15-75 ft·lb	100 in·lb	2.5 ft·lb	5 in·lb	9x12	28	23	386	336	17.5	988
50581020	a/20	350-1800 in·lb	30-150 ft·lb	100 in·lb	5 ft·lb	10 in·lb	14x18	28	23	467	424.5	25	1264
50581040	a/40	60-300 ft·lb	800-3600 in·lb	20 ft·lb	100 in·lb	2 ft·lb	14x18	28	23	607	564.5	25	1655

* recommended ratchet insert tool No 735/40HD

730NR Service MANOSKOP® torque wrenches with permanently installed fine-tooth ratchet

- in sturdy plastic box (size 65 in steel box)

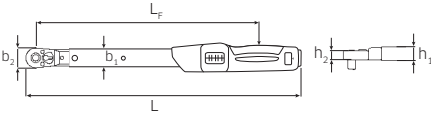
- deviation of indication $\pm 4\%$



Code	size					Fine scale	"	b ₁ mm	b ₂ mm	h ₁ mm	h ₂ mm	L mm	L _F mm	$\Delta\varnothing$ g	$\Delta\varnothing$ g with box
96503105	5 FK	10-50 N·m	7-37 ft·lb	5 N·m	1 ft·lb	0.25 N·m	3/8	28	33	23	24	364	280.5	973	1763
96503110	10 FK	20-100 N·m	15-75 ft·lb	10 N·m	2.5 ft·lb	0.5 N·m	1/2	28	33	23	24	420	336.5	1146	1934
96503120	20 FK	40-200 N·m	30-150 ft·lb	10 N·m	5 ft·lb	1 N·m	1/2	28	43	23	26	513.5	425	1583	2370
96502140	40 FK	80-400 N·m	60-300 ft·lb	20 N·m	10 ft·lb	2 N·m	3/4	28	50	23	31.5	657	564.5	2122	2657
96502265	65 FK-HD	130-650 N·m	100-480 ft·lb	50 N·m	20 ft·lb	2.5 N·m	3/4	30.6	58	25.6	36	944	848	3698	6188

730NR Service MANOSKOP® torque wrenches with permanently installed fine-tooth ratchet

- in sturdy plastic box
- with QuickRelease safety lock
- deviation of indication $\pm 4\%$



Code	size					Fine scale	"	b ₁ mm	b ₂ mm	h ₁ mm	h ₂ mm	L mm	L _F mm	Δ g	Δ g with box
96 50 21 05	5QR FK	10-50 N·m	7-37 ft·lb	5 N·m	1 ft·lb	0.25 N·m	3/8	28	29	23	14.5	372.5	291	961	1386
96 50 21 10	10QR FK	20-100 N·m	15-75 ft·lb	10 N·m	2.5 ft·lb	0.5 N·m	1/2	28	29	23	14.5	428.5	346.5	1129	1554
96 50 21 20	20QR FK	40-200 N·m	30-150 ft·lb	10 N·m	5 ft·lb	1 N·m	1/2	28	41	23	18	526	438.5	1589	2014

Service MANOSKOP® 730 Fix

- for daily use in series production
- the setting knob can be unscrewed after the target has been set - making inadvertent changes to the settings impossible
- the TORX® TAMPER-RESISTANT locking screw

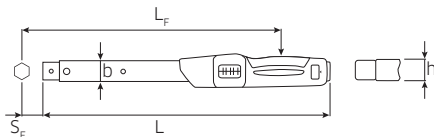
supplied with the tool also protects against unwanted manipulation the adhesive seals supplied offer a further level of security. It is not possible to adjust the setting without breaking the seal

730 Fix Service MANOSKOP® torque wrenches with mount for insert tools

- click-type
- the measuring element is only under load while force is being applied, no need for manual reset to zero
- mount for interchangeable insert tools
- QuickRelease safety lock
- fast, accurate setting thanks to QuickSelect quick-action adjuster
- dual stop signal
- easy-to-read double scale with colour coding to differentiate between N·m/ft·lb and ft·lb/in·lb scales
- can be applied for either clockwise or anticlockwise tightening by turning the inserts over

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- 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
- two-component handle with ergonomically designed green softer layers (resistant to oils, grease, fuels, brake fluids and skydrol)
- calibration using perfectControl® calibrating unit No 7794 or calibration system No 7706. Readjustment does not require disassembly
- certificate in accordance with DIN EN ISO 6789-2:2017
- registered design
- in sturdy plastic box (size 80-100 in steel box)
- display deviation value $\pm 3\%$



Code	size					Fine scale		b mm	h mm	L mm	L _F mm	S _F mm	Δ g	Δ g with box
96 50 30 05	5	10-50 N·m	7-37 ft·lb	5 N·m	1 ft·lb	0.25 N·m	9x12	28	23	330	280.5	17.5	828	1632
96 50 30 10	10	20-100 N·m	15-75 ft·lb	10 N·m	2.5 ft·lb	0.5 N·m	9x12	28	23	386	336	17.5	986	1788
96 50 30 12	12	25-130 N·m	20-95 ft·lb	10 N·m	2.5 ft·lb	0.5 N·m	14x18	28	23	421	379	25	1124	1928
96 50 30 20	20	40-200 N·m	30-150 ft·lb	10 N·m	5 ft·lb	1 N·m	14x18	28	23	467	424.5	25	1266	1890
96 50 30 40	40	80-400 N·m	60-300 ft·lb	20 N·m	10 ft·lb	2 N·m	14x18	28	23	607	564.5	25	1666	2444
96 50 30 65	65*	130-650 N·m	100-480 ft·lb	50 N·m	20 ft·lb	2.5 N·m	14x18	30.6	25.6	890	848	25	3242	6500
96 50 34 65	II/65	130-650 N·m	100-480 ft·lb	50 N·m	20 ft·lb	2.5 N·m	22x28	30.6	25.6	911	900	55	3490	7000
96 50 30 80	80	160-800 N·m	120-600 ft·lb	100 N·m	25 ft·lb	5 N·m	22x28	30.6	25.6	1178	1167	55	4794	10500
96 50 31 00	100	200-1000 N·m	150-750 ft·lb	100 N·m	25 ft·lb	5 N·m	22x28	30.6	25.6	1363	1352	55	5196	11000
96 58 30 05	a/5	90-450 in·lb	7-37 ft·lb	50 in·lb	1 ft·lb	2.5 in·lb	9x12	28	23	330	280.5	17.5	832	1638
96 58 30 10	a/10	180-900 in·lb	15-75 ft·lb	100 in·lb	2.5 ft·lb	5 in·lb	9x12	28	23	386	336	17.5	988	1790
96 58 30 20	a/20	350-1800 in·lb	30-150 ft·lb	100 in·lb	5 ft·lb	10 in·lb	14x18	28	23	467	424.5	25	1066	2072
96 58 30 40	a/40	60-300 ft·lb	800-3600 in·lb	20 ft·lb	100 in·lb	2 ft·lb	14x18	28	23	607	564.5	25	1670	2614

* recommended ratchet insert tool No 735/40HD

TRIPLE SAFETY.

The setting knob can be unscrewed after the target has been set - making inadvertent changes to the settings impossible.



The TORX® TAMPER-RESISTANT locking screw supplied with the tool also protects against unwanted manipulation.



The adhesive seals supplied offer a further level of security. It is not possible to adjust the setting without breaking the seal.



Small fits all. **SENSOTORK® 701.**



Working in confined spaces – and with very low torques? SENSOTORK® 701 is designed specifically for such cases. With its compact design and permanently installed fine-tooth ratchet, precise fastener tightening is no problem even in very tight spaces. The electronic torque wrench shows torques from 1 to 20 N·m with a display deviation of only $\pm 4\%$ – and in combination with the SENSOMASTER software, the SENSOTORK® 701 can also be used with full logging capability.



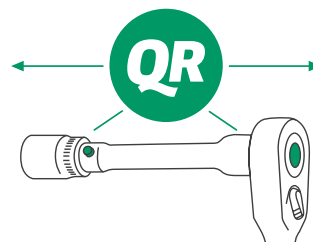
5

VERSATILE.

For torques from 1 to 20 N·m – the ideal choice for bolt tightening on modern materials such as plastic, carbon and aluminium, for state-of-the-art bicycles with carbon frames, for example.

INTUITIVE.

The required mode of operation (track, peak hold, user (fastener evaluation)) can be quickly and easily set using the single-button setting system.



SAFE.

The QuickRelease technology ensures tools cannot be inadvertently lost – while enabling rapid, safe tool changes.

COMPACT.

With a compact length of only 21 cm, it is ideally suited to safe, accurate work in confined spaces.



4,5°

80

EFFICIENT.

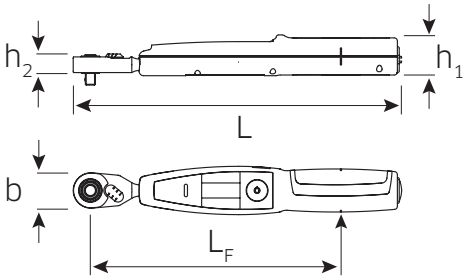
Eighty teeth provide a tight ratchet angle of only 4.5° – facilitating efficient working in confined spaces. In contrast to conventional fine-tooth ratchets, no less than eight teeth engage at once here, ensuring maximum load capacity and, at the same time, smooth action and durability.

701/2 Electronic torque wrench SENSOTORK® with permanently installed fine-tooth ratchet



- indicating
- slim, compact shape for smaller torques from 1 N·m upwards
- measuring units: N·m, cN·m, ft·lb, in·lb
- measurements independent of the point of application of force
- additional functions using SENSOMASTER 4 software (not included, free download at www.stahlwille.de):
 - adjustable joints
 - evaluation of tightening operation by means of coloured LEDs, buzzer and vibration

- calibrating interval adjustable
- logging function
- supplied with 3.6 V lithium battery, type 14500, packed in accordance with UN3091, Class 9
- calibration in conjunction with perfectControl® calibrating unit No 7794 or complete calibration system No 7706. Readjustment does not require disassembly
- certificate in accordance with DIN EN ISO 6789-2:2017
- in sturdy plastic box
- display deviation value ± 4%**



Code						b mm	h ₁ mm	h ₂ mm	L mm	L _F mm	ΔD g	ΔD g with box
96 50 45 02	1-20 N·m	100-2000 cN·m	0.7-15 ft·lb	9-180 in·lb	1/4	22.6	26	10	210	160	145	710
96 50 46 02	1-20 N·m	100-2000 cN·m	0.7-15 ft·lb	9-180 in·lb	1/4	22.6	26	10	210	160	132	700

96 50 46 02 - As for 96 50 45 02, but without battery (**not hazardous**)

7761/3 Interface adaptor set

required for automated calibration and adjustment using calibrating and adjusting units perfectControl® No 7794-2 and 7794-3.

Contents:

- No 7761 interface adaptor
- No 7752 spiral cable
- No 7760 mains adaptor



Code	ΔD g
96 52 11 61	255



Note!

Torque tightening tools are measuring instruments. They must be regularly calibrated with suitable instruments and adjusted accordingly (refer to DIN EN ISO 6789-1, 5.3 Conformance test during use and DIN EN ISO 6789-2, 4.1 Calibration during use).

A stroke of genius – with a logging function. **MANOSKOP® 730D.**



Made in
Germany

Tool owners wishing to combine the benefits of precision digital technology with the tried-and-tested mechanical torque wrench need look no further than the MANOSKOP® 730D. The patented electromechanical release triggers when the target torque is reached – and indicates this with a definite tactile signal and an audible click. In addition, the LC display gives a visual evaluation of the tightening action using different colours.

IDEAL.

After clicking, the MANOSKOP® 730D indicates the torque actually applied. As a result, the user has the opportunity to optimise his/her working methods.



Square drive for use with a wide range of different insert tools, including the 22 x 28 mm system for especially high torques.



ELECTROMECHANICAL.

The MANOSKOP® 730D has an electromechanical release and, in this way, combines precise, electronic measurement with the comforting, perceptible tactile signal when the target torque is reached.



OPTIONAL.

STAHLWILLE's optional SENSOMASTER software facilitates programming electronic torque wrenches and enables stored data to be read out.



SAFE.

The QuickRelease technology ensures tools cannot be inadvertently lost - while enabling rapid, safe tool changes.

ERGONOMICALLY REFINED.

The 2-component grip lies comfortably in the hand even after several tightening actions due to its soft zone, but it is still resistant to oils, grease, fuels, brake fluids and Skydrol.



READER-FRIENDLY.

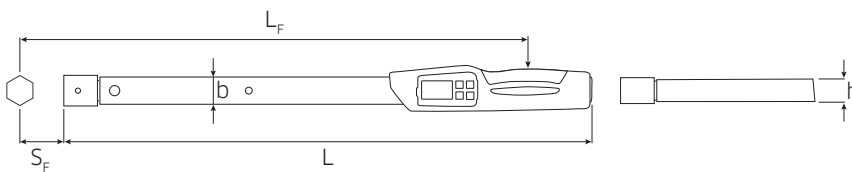
The LC display is easy to read and evaluates the fastener visually by means of coloured displays. All settings can be made quickly and easily using the keyboard, which uses only four keys.

Service work & series production MANOSKOP® 730D - indicating and click-type

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- tactile and acoustic trigger signal
- mount for interchangeable insert tools
- QuickRelease safety lock
- fast setting using convenient keypad
- automatic compensation to achieve correct tightening torque even if a changed extension is entered
- overload protection by means of acoustic and visual signals
- automatic keypad lock prevents inadvertent changes
- display also works for anticlockwise torque
- units of measurement: N·m, ft·lb, in·lb
- different tolerance limits can be set for each joint
- visual red and green signals in the display confirm the status of the joint
- additional security for presets (function mode, trigger or preset value, unit of measurement, tolerance, save, deviating extension) using PIN code
- up to 7.500 measurements can be stored
- USB interface
- automatic notification of the next calibration date
- calibration using perfectControl® calibrating unit No 7794 or calibration system No 7791
- two-component handle with ergonomically designed green softer layers (resistant to oils, grease, fuels, brake fluids and skydrol)
- certificate in accordance with DIN EN ISO 6789-2:2017
- in sturdy plastic box (sizes 40-100 in steel box)
- patent
- supplied with two 1.5 V AA batteries. AA/LR6, 1.2 V rechargeable cells may also be used
- **display deviation value ± 2%, ± 1 digit**

730D Service/series MANOSKOP® torque wrenches with mount for insert tools



Code	size				Setting/display resolution				b	h	L	L _F	S _F	Δ±	Δ± g
		N·m	ft·lb	in·lb	N·m	ft·lb	in·lb	mm	mm	mm	mm	mm	g	with box	
96501710	10	10-100 N·m	7.4-75 ft·lb	90-900 in·lb	0.2/0.1	0.2/0.1	2/1.0	9x12	28	23	467	426.5	17.5	1085	1510
96501720	20	20-200 N·m	15-150 ft·lb	180-1800 in·lb	0.5/0.1	0.5/0.1	5/1.0	14x18	28	23	548	515	25	1361	1896
96501740	40	40-400 N·m	30-300 ft·lb	360-3600 in·lb	1.0/0.1	1.0/0.1	10/1.0	14x18	28	23	688	655	25	3300	5155
96501765	65*	65-650 N·m	48-480 ft·lb	580-5800 in·lb	1.0/0.1	1.0/0.1	10/1.0	14x18	30.6	25.6	870	837	25	3300	6000
96501965	II/65	65-650 N·m	48-480 ft·lb	580-5800 in·lb	1.0/0.1	1.0/0.1	10/1.0	22x28	30.6	25.6	892	889	55	3224	7500
96502080	80	80-800 N·m	60-600 ft·lb	720-7200 in·lb	1.0/1.0	1.0/1.0	10/1.0	22x28	30.6	25.6	1160	1157	55	4577	10500
96502100	100	100-1000 N·m	74-750 ft·lb	900-9000 in·lb	1.0/1.0	1.0/1.0	10/1.0	22x28	30.6	25.6	1344	1341	55	4995	11000

* recommended ratchet insert tool No 735/40HD

730DR Service/series MANOSKOP® torque wrenches with reversible ratchet insert tool



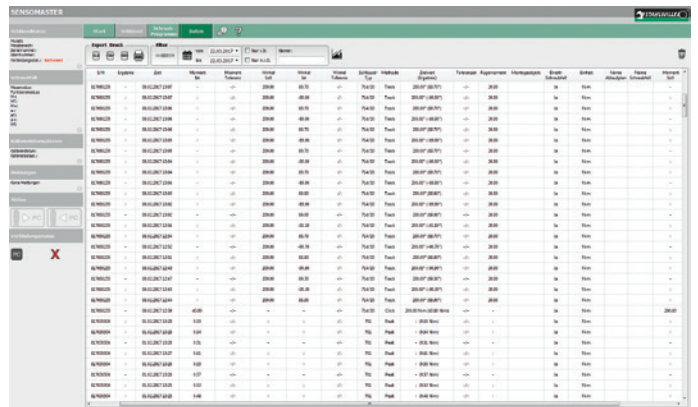
Code	size				Setting/display resolution			"		L mm		
					N·m	ft·lb	in·lb					
96501810	10	10-100 N·m	7.4-75 ft·lb	90-900 in·lb	0.2/0.1	0.2/0.1	2/1.0	1/2		501	1232	1657
96501820	20	20-200 N·m	15-150 ft·lb	180-1800 in·lb	0.5/0.1	0.5/0.1	5/1.0	1/2		595	1663	2198
96501840	40	40-400 N·m	30-300 ft·lb	360-3600 in·lb	1.0/0.1	1.0/0.1	10/1.0	3/4		738	2232	4722
96501865	65	65-650 N·m	48-480 ft·lb	580-5800 in·lb	1.0/0.1	1.0/0.1	10/1.0	3/4		975	3767	6530
96502065	II/65	65-650 N·m	48-480 ft·lb	580-5800 in·lb	1.0/0.1	1.0/0.1	10/1.0	3/4		977	3994	9000
96501880	80	80-800 N·m	60-600 ft·lb	720-7200 in·lb	1.0/0.1	1.0/0.1	10/1.0	3/4		1255	6492	12500
96501800	100	100-1000 N·m	74-750 ft·lb	900-9000 in·lb	1.0/0.1	1.0/0.1	10/1.0	3/4		1439	6910	12500

7759-5 USB hub, jack cable and SENSOMASTER 4 software

- SENSOMASTER 4 - one software package for all electronic torque wrenches from STAHLWILLE
- self-explanatory thanks to intuitive GUI with clearly organised tabbed layout
- quick and easy programming for electronic torque wrenches
- enables comprehensive evaluations, for example in connection with quality assurance
- read out stored wrench data and joint readings:
 - joint identifier
 - tool serial number
 - date and time of tightening operation
 - target torque or target angle
 - torque level at which the tool cuts out
 - tightening torque or angle reached
 - tolerances
 - joint evaluation
- storage of joint data in a database
- delete or print highlighted joints from the database
- export displayed joint data to a range of file formats (*.XLS,*.CSV,*.ODG)
- user management
- define new PIN
- delete joint data stored in wrench

System requirements:

- PC
- from Microsoft Windows XP on
- USB connection



Code	L m	
96583630	1.5	65

7751 Jack cable

- with jacks at both ends, 90° angled



Code	L m	
52110051	1.5	50

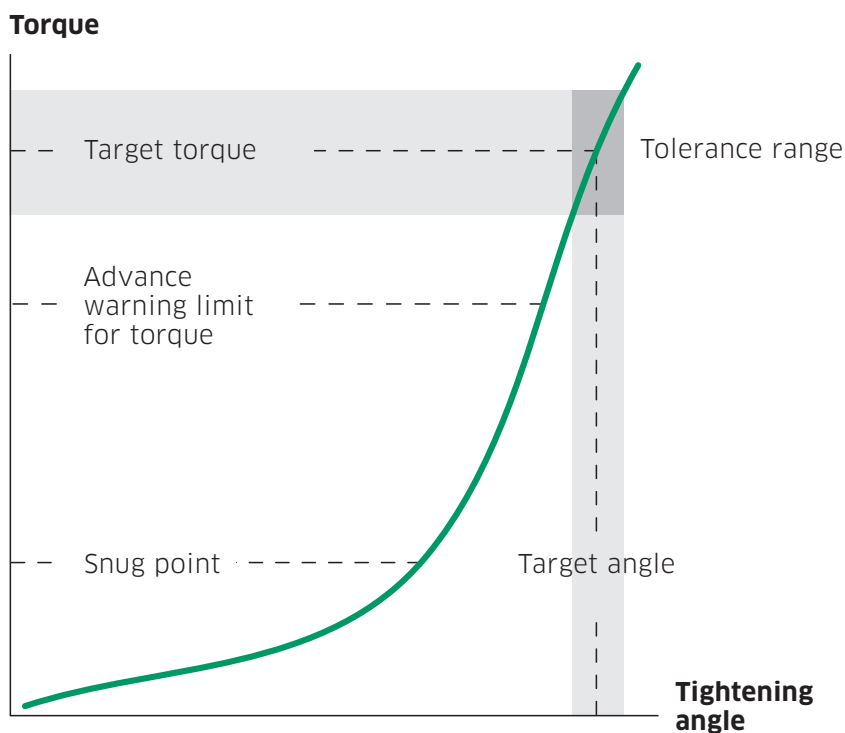
7757-1 USB adaptor



Code	
52111057	10

For absolute accuracy. **STAHLWILLE torque angle/torque wrenches.**

For high-accuracy applications – Category A bolted connections, for example – just checking the torque is not enough. As well as the torque, it is crucial to tighten to the correct tightening angle.



The torque reading specifies how much force was applied to tighten a fastener. For many applications, this is perfectly good enough. However, in certain cases, the additional measure of accuracy is an essential requirement. The tightening force that is generated between the workpieces in a bolted joint has to be exactly adhered to: if the force is too great, there is a risk of breakage. If it is too low, on the other hand, the connection will not be firm enough and may lead to failure in the assembly under normal operation conditions. Since the tension is dependent on the tightening torque and the angle, measuring equipment that can measure both quantities exactly is required. For applications of this kind, STAHLWILLE has precisely the solutions industry needs.



MANOSKOP® 714
 >> 216

SENSOTORK® 713R
 >> 220

EFFICIENT.

Easily readable displays and automatic switch-over to angle-controlled measurement once the target tightening torque has been reached - key features in efficient, safe work practice.

AUDITED.

All our angle-controlled torque wrenches have a logging function. Using the corresponding software (this is an optional extra), it is possible to read out programmed, stored readings and archive them on the PC - for example by the serial number of the tool, date and timestamp of the tightening operation, target torque and angle and the torques and angles actually recorded.

ACCURATE.

Accuracy counts - uncertainty is reduced to a minimum to guarantee accurate readings.

SAFE.

Increased fastener quality - including the angle of turn as the second measured quantity makes the bolted joint even more secure.

ECONOMICAL.

Thanks to the considerably extended measuring ranges, every angle-controlled torque wrench can replace as many as four mechanical torque wrenches (two indicating and two clicking), which simultaneously reduces the costs of maintenance, calibration and adjustment. All these models are suitable for clockwise and anticlockwise tightening.

Simply special. MANOSKOP® 714.



As an electromechanical torque wrench, the MANOSKOP® 714 delivers the best of both worlds. Users benefit from precise, electronic tracking, but also feel and hear the familiar »click« of mechanical torque wrenches. The result of the tightening action is evaluated visually on the high-resolution OLED display and lateral LEDs and is indicated acoustically. The menu is intuitive to use and can be freely configured. As one would expect, the MANOSKOP® 714 is capable of logging tightening actions, indicates in both anticlockwise and clockwise directions and clicks in a clockwise direction.

ACCURATE.

Display deviation value $\pm 2\%$ for torque and $\pm 1\%$ for angle. All readings are independent of the point of application of force (with sizes 1, 2 and 4).



Optional rechargeable lithium-ion batteries with 2600 mAh and a corresponding charger cradle ensure the tool is always ready for use.



MADE TO MEASURE.

Four measuring modes (torque, angle, torque backed up by angle, angle backed up by torque).



CONNECTING YOU NOW...

Micro-USB interface for quick connection to a PC.



SIMPLE.

Smooth-action bayonet connection on battery compartment. Can optionally be equipped with Li-Ion battery 7195-2.

HD DISPLAY.

High-definition colour display providing a reading angle up to 170° and with additional side-mounted indicator lamps. Yellow lamp: advance warning threshold reached, green lamp: within the target range, red lamp: reading is outside the tolerance range.

VERSATILE.

Three function modes: first peak, peak (indicating mode) and track (indicating mode).



INDIVIDUAL.

Individually configurable menus. Includes SENSOMASTER software for easy configuration of the tool.

MANOSKOP® 714 – indicating and click-type Electromechanical angle-controlled torque wrench

- 4 measuring modes (torque, angle, torque backed up by angle, angle backed up by torque)
- high-definition colour display with additional side-mounted indicator lamps
- freely configurable menu structure
- optionally: Li-ion battery No 7195-2 and charger No 7160
- 3 function modes: cut-out, peak hold (indicating mode with peak value) and track (indicating mode with current value)
- micro USB interface
- bayonet connection for battery compartment
- QuickRelease safety lock change system for insert tools
- data storage (≤ 2500 tightening jobs)
- as many as 200 joints can be programmed in up to 25 preset sequences
- different tolerance limits can be set for each joint
- acoustic and visual assessment of the joint
- rapid, accurate setting via keypad
- the automatic keypad lock prevents inadvertent changes
- overload protection by means of acoustic and visual signals and a fail-safe system (clockwise)
- automatic notification of the next calibration date, either by the number of joints or the time interval
- fully automated calibrating and adjusting using the perfectControl® calibrating and adjusting unit No 7794-2 (torque) or 7794-3 (torque and angle)
- units of measure: N·m, ft·lb, in·lb
- tightening torque is automatically corrected if a deviating extension is entered
- immediately reusable after release
- clockwise and anticlockwise tightening – it may be necessary to refit the insert tool rotated through 180° for anticlockwise tightening in the cut-out mode
- tactile and acoustic trigger signal
- torque and angle are simultaneously visible
- all readings are independent of the point of application of force (with sizes 1, 2 and 4)
- safe handling due to ergonomically designed handle (resistant to oils, grease, fuels, brake fluid and skydrol)
- 3 certificates (torque indicating/clicking in accordance with DIN EN ISO 6789-2:2017, angle)
- in sturdy plastic box (size 40-100 in steel box)
- design patent, patent
- supplied with SENSOMASTER 4 software, USB cable, 4 AAA/LR03 micro-batteries, 1.5 V. AAA, 1.2 V, micro NiMH rechargeable batteries can be used
- display resolution, angle 0.1°
- **display deviation value, angle ±1%, ±1 digit**
- display resolution, torque ≤ 60 N·m: 0.01 N·m; > 60 N·m: 0.1 N·m
- **display deviation value, torque ±2%, ±1 digit**

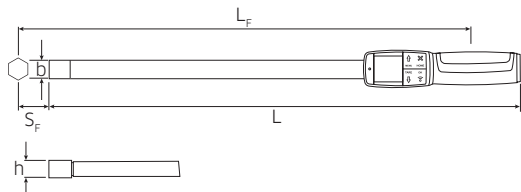
223-229

5

714 MANOSKOP® tightening angle torque wrenches with mount for insert tools



2013



714/2



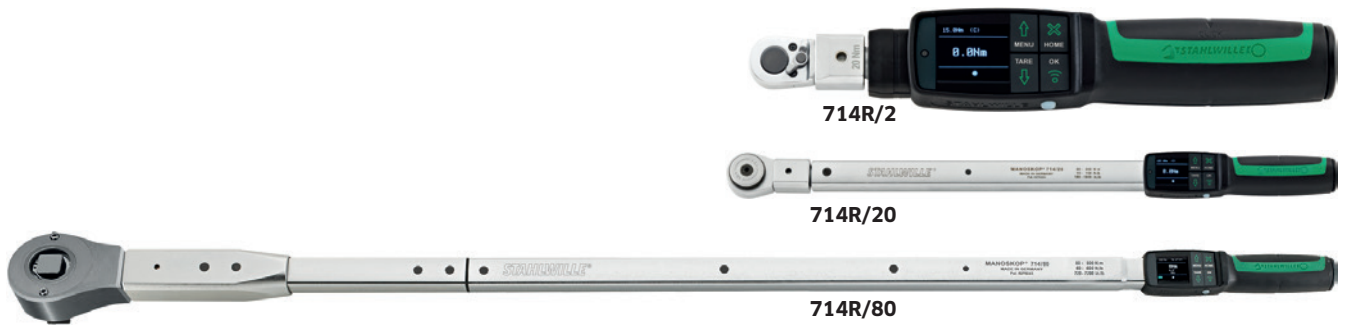
714/20



714/80

Code	size					b	h	L	L _F	S _F	Δ ₀	Δ ₀ g
					mm	mm	mm	mm	mm	mm	g	with box
96 50 09 01	1	1–10 N·m	0.7–7.5 ft·lb	9–90 in·lb	9x12	28	23	226	188	17.5	370	795
96 50 09 02	2	2–20 N·m	1.5–15 ft·lb	18–180 in·lb	9x12	28	23	226	188	17.5	380	805
96 50 09 04	4	4–40 N·m	3–30 ft·lb	36–360 in·lb	9x12	28	23	252	214	17.5	420	845
96 50 09 06	6	6–60 N·m	4.5–45 ft·lb	54–540 in·lb	9x12	28	23	393	355	17.5	810	1235
96 50 09 10	10	10–100 N·m	7.4–75 ft·lb	90–900 in·lb	9x12	28	23	466	428	17.5	1085	1655
96 50 09 20	20	20–200 N·m	15–150 ft·lb	180–1800 in·lb	14x18	28	23	547	516	25	1361	1896
96 50 09 40	40	40–400 N·m	30–300 ft·lb	360–3600 in·lb	14x18	28	23	687	656	25	1765	5155
96 50 09 65	65	65–650 N·m	48–480 ft·lb	580–5800 in·lb	22x28	30.6	25.6	890	890	55	3222	7000
96 50 09 80	80	80–800 N·m	60–600 ft·lb	720–7200 in·lb	22x28	30.6	25.6	1158	1158	55	4572	10400
96 50 01 00	100	100–1000 N·m	74–750 ft·lb	900–9000 in·lb	22x28	30.6	25.6	1343	1343	55	4990	10500

714R MANOSKOP® tightening angle torque wrenches with reversible ratchet insert tool



Code	size				"		L mm	Δ g	Δ g with box
96501001	1	1-10 N·m	0.7-7.5 ft·lb	9-90 in·lb	1/4	9x12	269	432	857
96501002	2	2-20 N·m	1.5-15 ft·lb	18-180 in·lb	1/4	9x12	269	442	867
96501004	4	4-40 N·m	3-30 ft·lb	36-360 in·lb	1/4	9x12	295	482	907
96501006	6	6-60 N·m	4.5-45 ft·lb	54-540 in·lb	3/8	9x12	427	965	1390
96501010	10	10-100 N·m	7.4-75 ft·lb	90-900 in·lb	1/2	9x12	500	1232	1657
96501020	20	20-200 N·m	15-150 ft·lb	180-1800 in·lb	1/2	14x18	594	1663	2198
96501040	40	40-400 N·m	30-300 ft·lb	360-3600 in·lb	3/4	14x18	737	2275	5665
96501065	65	65-650 N·m	48-480 ft·lb	580-5800 in·lb	3/4	22x28	980	5137	9000
96501080	80	80-800 N·m	60-600 ft·lb	720-7200 in·lb	3/4	22x28	1253	6487	12300
96501100	100	100-1000 N·m	73-735 ft·lb	885-8850 in·lb	3/4	22x28	1438	6905	12500

7195-2 Li-ion battery for No 714

- max. charge voltage 4.2 V
- capacity 2600 mAh
- hazardous goods: Rechargeable Li-ion battery according to UN 3480, Class 9



Code	Δ g
54101195	74

7160 Charging dock for Li-ion battery No 7195-2

- including charger
- Input: 100 V-240 V AC
- Output: 4.2 V DC
- charge duration: 4 hrs.
- with interchangeable socket adaptors



Code	Δ g
54100060	440

7761/3 Interface adaptor set

required for automated calibration and adjustment of angle-controlled torque wrench No 714 using calibrating and adjusting units perfectControl® No 7794-2 and 7794-3.

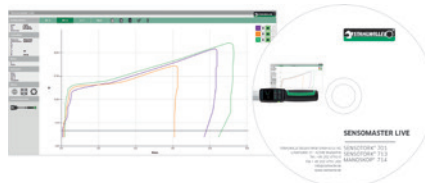
- Contents:
- No 7761 interface adaptor
 - No 7752 spiral cable
 - No 7760 mains adaptor



Code	Δ g
96521161	255

7732-2 SENSOMASTER Live software

- record torqueing operations with the MANOSKOP® 714, SENSOTORK® 713R (from firmware 4.x) and SENSOTORK® 701
- representation of torque over time, angle over time, torque over angle
- representation of several curves simultaneously
- data export for further processing
- the software is for a single-seat licence
- torque wrenches 714/1 ... /100 must have firmware version 02.01.02



Code	Δ g
96585235	111

7762 Docking station for No 714

- stationary base for securely connecting angle-controlled torque wrench No 714 to a PC via a USB port



Code	Δ g
52110062	440

7762-1 Rest for docking station No 7762

- for securely supporting long angle-controlled torque wrenches No 714 from size 6 up



Code	Δ g
52110162	475

The torque angle specialist. **SENSOTORK® 713R.**



Made in
Germany

When it comes to prescribed tightening using the torque angle, SENSOTORK® 713R is the ideal tool. This tightening angle torque wrench for clockwise and anticlockwise operation boasts a particularly flexible measuring range and measures the angle and torque applied irrespective of the point of application of force. In this way it prevents human error. In addition, there is a display deviation of only $\pm 1^\circ$ for the angle of rotation and $\pm 1\%$ for the torque.

EXACT.

With a display deviation value of only $\pm 1\%$, the SENSOTORK® 713R is the champion in the STAHLWILLE range.



Easy extension setting. Where the insert tool requires an extension adjustment, simply enter the new value - recalculation using formulae is not necessary.



SIMPLE.

Preset individual fasteners and program complex sequences - whether on the PC or on the tool itself using the display and function keys.

MULTISENSORY.

The torque achieved is indicated by visual, audible and tactile signals - with a multicoloured backlit LED display, acoustic signal and vibration.



SAFE.

The QuickRelease interlock technology ensures tools cannot be inadvertently lost - while enabling rapid, safe tool changes.



UNCOMPLICATED.

Operator guidance and the menu structure are intuitive - arrow keys simplify operation.

LOGGING FUNCTION.

Comprehensive documentation options. As many as 2000 tightening actions can be stored with timestamps.



CONNECTING YOU NOW...

Set the parameters for the torque wrench or read out the stored data. This is a simple matter using the USB interface together with the optional SENSOMASTER software.

Electronic angle-controlled torque wrenches SENSOTORK® 713R and electronic torque wrench SENSOTORK® 712R

- simple, flexible operation thanks to operator guidance on large-format display
- very broad measuring range (5% to 100% of rated value)
- supplied with insert tool reversible ratchet
- more insert tools
- QuickRelease safety lock
- for clockwise and anticlockwise torquing
- measurements independent of the point of application of force
- units of measurement: N·m, ft·lb, in·lb
- advance warning points programmable for visual, tactile and acoustic signals
- backlit display aids evaluation of the tightening operation (traffic-light colours)
- insert tool lengths can be individually set
- maintenance friendly due to easy adjustment and automatic reminder of next calibration date

223-229

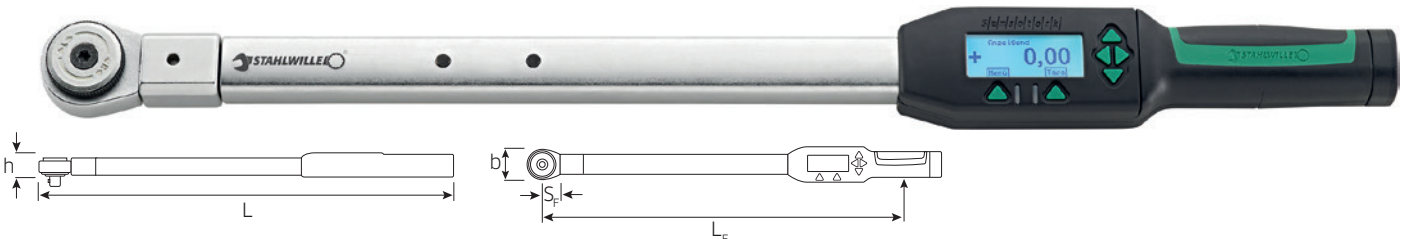
- repeated joints can be collated to form a single menu-guided sequence
- tightening jobs are stored with a timestamp
- individual identification markings possible
- password protection to prevent inadvertent changes and make the tool tamper-proof
- meets requirements of DKD-R 3-7, Class 2
- with 2 certificates (torque in accordance with DIN EN ISO 6789-2:2017/angle)
- in sturdy plastic box (size 40 in tough steel box)
- supplied with two 1.5 V AA batteries. AA/LR6, 1.2 V NiMH rechargeable cells may also be used
- fully automated calibration (torque) using perfectControl® calibrating unit No 7794-2. Readjustment does not require disassembly.
- registered design
- **display deviation value ± 1%**

5

713R Electronic SENSOTORK® tightening angle torque wrenches with reversible ratchet insert tool

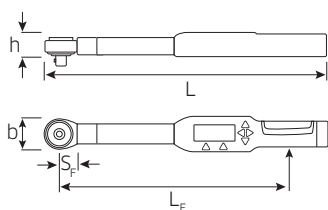
- torque and angle are simultaneously visible
- convenient angle measurement across a very wide angle range

- **display deviation value, angle ±1%, ±1 digit**



Code	size			"		b mm	h mm	L mm	L _F mm	S _F mm	Δ _g g	Δ _g g with box
96 50 16 06	6	3-60 N·m	2.5-44 ft·lb	3/8	9x12	33	24	378	299	17.5	856	1500
96 50 16 20	20	10-200 N·m	7-148 ft·lb	1/2	14x18	43	26	608	524	25	1552	2430
96 50 16 40	40	20-400 N·m	15-296 ft·lb	3/4	14x18	50	31.5	838	750	25	2332	5555

712R/6 Electronic SENSOTORK® torque wrench with reversible ratchet insert tool



Code			"		b mm	h mm	L mm	L _F mm	S _F mm	Δ _g g	Δ _g g with box
96 50 15 06	3-60 N·m	2.5-44 ft·lb	3/8	9x12	33	24	378	299	17.5	856	1500

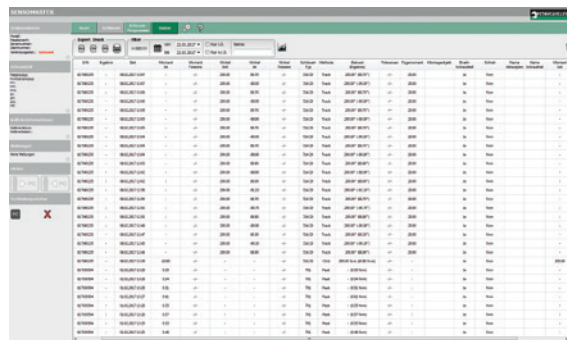
Accessories for electronic angle-controlled torque wrench Sensotork® No 713R and electronic torque wrench SENSOTORK® No 712R

7759-5 USB hub, jack cable and SENSOMASTER 4 software

- SENSOMASTER 4 - one software package for all electronic torque wrenches from STAHLWILLE
- self-explanatory thanks to intuitive GUI with clearly organised tabbed layout
- quick and easy programming for electronic torque wrenches
- enables comprehensive evaluations, for example in connection with quality assurance
- read out stored wrench data and joint readings:
 - joint identifier
 - tool serial number
 - date and time of tightening operation
 - target torque or target angle
 - torque level at which the tool cuts out
 - tightening torque or angle reached
 - tolerances
 - joint evaluation
- storage of joint data in a database
- delete or print highlighted joints from the database
- export displayed joint data to a range of file formats (*.XLS,*.CSV,*.ODG)
- user management
- define new PIN
- delete joint data stored in wrench

System requirements:

- PC
- from Microsoft Windows XP on
- USB connection



Code	L	g
96 58 36 30	1.5	65

7751 Jack cable

- connection between transducers 7721-7724 and USB adaptor or display unit
- with jacks at both ends, 90° angled



Code	L	g
52 11 00 51	1.5	50

7757-1 USB adaptor



Code	g
52 11 10 57	10

Accessories

7301/7302 Plastic box, 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	712R/6; 713R/6; 714/1-10; 721/5-20 Quick; 730/5-20 Quick; 730/5-20 Fix; 730N/5-20; 730D/10	550	425
81370003	7302	713R/20; 714/20; 721/30 Quick; 730/40 Quick; 730/40 Fix; 730N/40; 730D/20	680	535

7303/7304 Inlays for plastic box

Code	No	for torque wrenches No	Δ g
83071004	7303	721/5-20 Quick; 730/5-20 Quick; 730/5-20 Fix; 730N/5-20; 730D/10	60
83071002	7304	713R/20; 721/30 Quick; 730/40 Quick; 730/40 Fix; 730N/40; 730D/20	81

TWBE 65-100 Textile bags for larger torque wrenches

- for safe storage and transport of large torque wrenches



Code	No	for torque wrenches No	Δ g
81231100	TWBE 65	714/65; 730/65 Quick; 730II/65 Quick; 730N/65; 730NII/65; 730/65 Fix; 730II/65 Fix; 730D/65; 730DII/65	670
81231101	TWBE 80	714/80; 71/80; 71aR/80; 720Nf/80; 721Nf/80; 730/80; 730D/80	714
81231102	TWBE 100	714/100; 730N/80; 730/80 Fix; 730N/100; 730D/100	760
81231103	TWBE 721NF/100	721Nf/100	850

7396 LED lighting

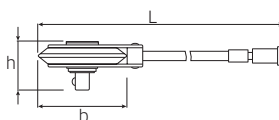
- for torque wrenches
- if light is poor, simply attach this LED lamp to illuminate the work site
- included in the delivery is a 1.5 V micro battery
- supplied without torque wrench



Code	for torque wrenches No	Δ g
54010004	712R/6; 713R/6-40; 714/6-40; 721/5-30 Quick; 730/5-40 Quick; 730/5-40 Fix; 730N/5-40; 730D/10-40	55

7380N/7385N Torque angle gauges

- 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 730N
- 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 recommended tightening angle
- whether 1/2" or 3/4" square drive 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	505
54010002	7385N	3/4	3/4	± 360°	2°	78	76	416	720

7161 QuickRelease safety lock

- prevents insert tools being swapped
- the system is locked in place on the head of the torque wrench by means of a safety screw
- once the protection system has been fitted, it is possible to attach an insert tool but not to remove it because the QuickRelease unlock button itself is locked
- after the safety screw has been removed, the torque wrench reverts to being a standard, versatile tool
- the safety screw can be fitted and removed using a TORX® screwdriver with a central bore in the tip (No 4656, size T20, Code 46 56 00 20) or a bit screwdriver insert with a central bore in the tip (No 1442, size T20, Code 08 16 00 20)



Code	size	for torque wrenches No	Δ g
54100070	1	714/1-4	4
54100071	2	712R/6; 713R/6; 714/6-10; 730/10 Quick; 730/10 Fix; 730N/10; 730D/10	5
54100072	3	713R/20-40; 714/20-40; 730/12-40 Quick; 730/12-40 Fix; 730N/12-40; 730D/20-40	11
54100073	4	730/5 Quick; 730/5 Fix; 730N/5	2
54100074	5	714/65-100; 730II/65; 730II/65 Quick; 730II/65 Fix; 730/80-100 Fix; 730NII/65; 730N/80-100; 730DII/65; 730D/80-100	30

for other torque wrenches on request

1299 Bit

- for inside hexagon screws
- for operating the adjusting screws on torque wrenches No 720, 721, 721 Quick, 730, 730 Quick, 730N, 730 Fix



Code	mm	□	"	L mm	Δ g	□
08090002	2	C 6.3	1/4	34	4	10

outside ● DIN 3126/ISO 1173

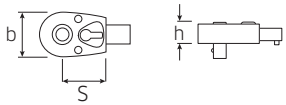
Insert/shell tools for torque wrenches

Output square drive ■ in accordance with DIN 3120. Long-term loading of the input and output square drive is in accordance with DIN EN ISO 6789. This limit must not be exceeded if larger torque wrenches and tool holders are used.

725QR QuickRelease ratchet insert tools

QR

- reversible
- with QuickRelease safety lock
- size 4: 22 teeth
- sizes 5 and 10: 30 teeth

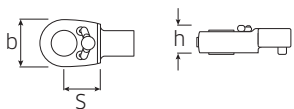


Code	size	"	mm	b mm	h mm	S mm	max. N-m	ΔΔ g
58 25 3004	4	1/4	9x12	22	13.8	17.5	40	50
58 25 3005	5	3/8	9x12	29	18	28*	100	130
58 25 3010	10	1/2	9x12	29	18	28*	100	141

* Caution! Modified settings on torque wrench (refer to note on p. 129)

725B Bit 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
- 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)

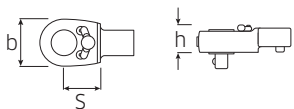


Code	size	"	mm	b mm	h mm	S mm	max. N-m	ΔΔ g
58 25 5004	4	1/4	9x12	22	13.6	17.5	54	54
58 25 5005	5	5/16	9x12	29	17.9	28*	117	117

* Caution! Modified settings on torque wrench (refer to note on p. 129)

725/4 Ratchet insert tool

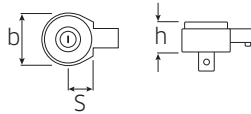
- reversible
- 22 teeth



Code	"	mm	b mm	h mm	S mm	max. N-m	ΔΔ g
58 25 4004	1/4	9x12	22	13.8	17.5	40	62

735 Ratchet insert tools, fine tooth

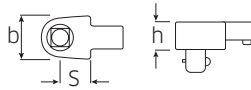
- reversible
- 60 teeth



Code	size	"	mm	b mm	h mm	S mm	max. N-m	ΔΔ g
58 25 0005	5	3/8	9x12	33	24	17.5	100	150
58 25 0010	10*	1/2	9x12	33	24	17.5	100	147

* on request also available as a clockwise-only ratchet

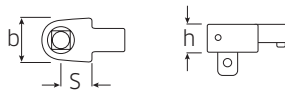
734 Square drive insert tools



Code	size	"	mm	b mm	h mm	S mm	max. N-m	ΔΔ g
58 24 0004	4	1/4	9x12	20	14	17.5	40	71
58 24 0005	5	3/8	9x12	20	14	17.5	80	76
58 24 0010	10	1/2	9x12	20	14	17.5	100	82

734F Square drive insert tools

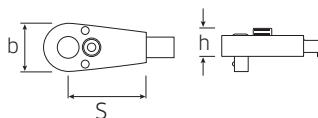
- with permanently attached, captive square drive



Code	size	"	mm	b mm	h mm	S mm	max. N-m	ΔΔ g
58 24 1004	4	1/4	9x12	22	14	17.5	72	72
58 24 1005	5	3/8	9x12	22	14	17.5	75	75

725L/5 Ratchet insert tool

- reversible
- 30 teeth
- Caution! Modified settings on torque wrench (refer to note on p. 129)

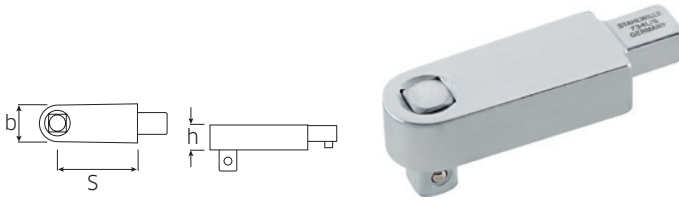


Code	"	mm	b mm	h mm	S mm	max. N-m	ΔΔ g
58 15 1005	3/8	9x12	27.5	19.6	45	100	164

Insert/shell tools

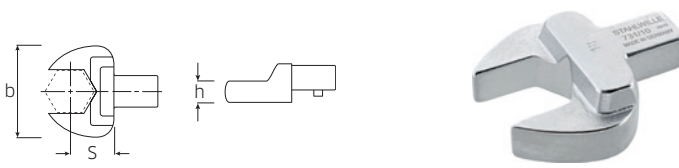
734L/5 Square drive insert tool

- Caution! Modified settings on torque wrench (refer to note on p. 129)



Code	"	mm	b mm	h mm	S mm	max. N·m	Δg
58 24 2005	3/8	9x12	20	14	45	80	141

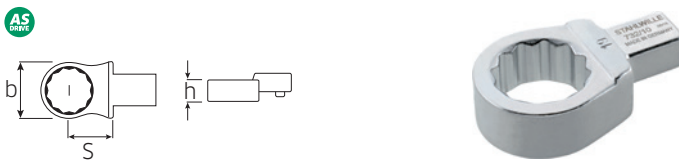
731a/10 Open ended insert tools



Code	"	mm	b mm	h mm	S mm	Δg
5861 10 16	1/4	9x12	22	5	17.5	36
5861 10 20	5/16	9x12	22	5	17.5	53
5861 10 24	3/8	9x12	26	5.5	17.5	38
5861 10 28	7/16	9x12	26	5.5	17.5	37
5861 10 32	1/2	9x12	30	7	17.5	44
5861 10 34	9/16	9x12	35	8	17.5	49
5861 10 36	5/8	9x12	38	8.5	17.5	64
5861 10 38	11/16	9x12	42	9	20*	76
5861 10 40	3/4	9x12	42	9	20*	73

* Caution! Modified settings on torque wrench (refer to note on p. 129)

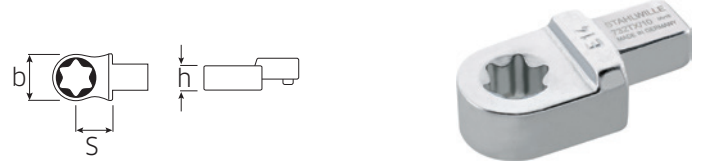
732a/10 Ring insert tools



Code	"	mm	b mm	h mm	S mm	Δg
5862 10 16	1/4	9x12	13	8	17.5	36
5862 10 20	5/16	9x12	14.2	8	17.5	37
5862 10 24	3/8 1)	9x12	17.2	9	17.5	37
5862 10 28	7/16	9x12	18.5	9	17.5	40
5862 10 32	1/2	9x12	21.5	11	17.5	53
5862 10 34	9/16	9x12	22.5	11	17.5	52
5862 10 36	5/8	9x12	26	12	17.5	54
5862 10 38	11/16	9x12	28	13	17.5	58
5862 10 40	3/4	9x12	30.5	13	17.5	58
5862 10 42	13/16	9x12	33	15	17.5	68
5862 10 44	7/8	9x12	34.5	15	17.5	69

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

732TX/10 TORX® insert tools

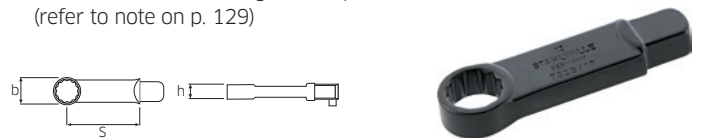


Code	size	mm	b mm	h mm	S mm	Δg
58 29 10 06	E6	9x12	13	8	17.5	40
58 29 10 08	E8	9x12	14.2	8	17.5	45
58 29 10 10	E10	9x12	17.2	9	17.5	45
58 29 10 12	E12	9x12	18.5	9	17.5	50
58 29 10 14	E14	9x12	21.5	11	17.5	60

732aG/10 Ring insert tools



- for assembling and dismantling aero-engines
- HPQ® high performance steel, gunmetal finish
- Caution! Modified settings on torque wrench (refer to note on p. 129)



Code	"	mm	b mm	h mm	S mm	Δg
5862 12 16	1/4	9x12	10.4	6	45	28
5862 12 20	5/16	9x12	12.4	6	45	31
5862 12 24	3/8	9x12	14.9	8	45	42
5862 12 28	7/16	9x12	17	8	45	43
5862 12 32	1/2	9x12	19	9.2	45	58
5862 12 34	9/16	9x12	21	9.2	45	58
5862 12 36	5/8	9x12	23	12	45	74

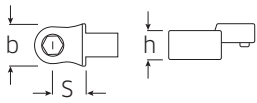
733a/10 Open ring insert tools



Code	"	mm	b mm	h mm	S mm	W mm	Δg
5863 10 24	3/8	9x12	21.5	11	17.5	7.1	55
5863 10 28	7/16	9x12	22.5	11	17.5	8.6	56
5863 10 32	1/2	9x12	26	12	17.5	9.5	58
5863 10 34	9/16	9x12	27.5	13	17.5	11	59
5863 10 36	5/8	9x12	30.5	13	17.5	12.7	61
5863 10 38	11/16	9x12	33	15	17.5	14	48
5863 10 40	3/4	9x12	34	15	17.5	15.8	76

736 Bit holder insert tools

- internal hex drive with a collar-thrust spring
- 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)

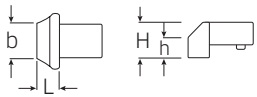


Code	size	⌀	"	mm	b mm	h mm	S mm	⊖/⊕ g
58 26 10 10	10	D 8	5/16	9x12	16	12.5	17.5	47
58 26 26 10	10-1	D 6.3	1/4	9x12	14	10	17.5	45

inside ⌀ DIN 3126/ISO 1173

737/10 Blank end insert tool

- gunmetal finish
- to prevent damage from excessive temperatures, the locking pin, spring and washer are not fitted until the welding work has been completed
- instructions are supplied
- material: 1.2208 - 31CRV3

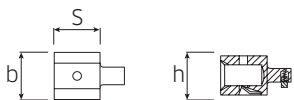


Code	Welding surface h x b mm	mm	H mm	L mm	⊖/⊕ g
58 27 00 10	8 x 14	9x12	14.5	8	35

7370/10 Adaptor

QR

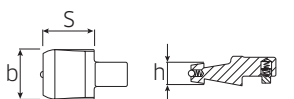
- for using insert tools with an outer square drive of 14 x 18 mm on torque wrenches with an internal square drive of 9 x 12 mm
- Caution! Modified settings on torque wrench (refer to note on p. 129)



Code	mm	mm	b mm	h mm	S mm	⊖/⊕ g
58 29 00 10	9x12	14x18	31	26	30.5	118

7370/10-2 Adaptor

- for use with insert tools with a lateral dovetail profile in torque wrenches with 9 x 12 mm internal square drives
- Caution! Modified settings on torque wrench (refer to note on p. 129)



Code	mm	b mm	h mm	S mm	⊖/⊕ g
58 29 00 12	9x12	23.5	9.5	24	51

1820 Tool holder

- with tool carrier to receive insert/shell tools (without torque function)

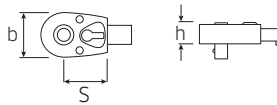


Code	mm	L mm	⊖/⊕ g
18 20 00 01	9x12	382.5	490

725QR/20 QuickRelease ratchet insert tool

QR

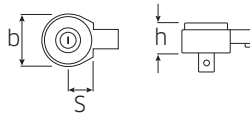
- reversible
- with QuickRelease safety lock
- 36 teeth
- Caution! Modified settings on torque wrench (refer to note on p. 129)



Code	size	"	mm	b mm	h mm	S mm	max. N-m	⊖/⊕ g
58 25 30 20	20	1/2	14x18	41	22.3	38.5	200	325

735 Ratchet insert tools, fine tooth

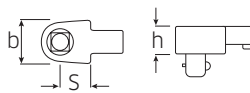
- reversible
- 60 teeth



Code	size	"	mm	b mm	h mm	S mm	max. N-m	⊖/⊕ g
58 25 00 20	20	1/2	14x18	43	26	25	300	302
58 25 00 40	40	3/4	14x18	50	31.5	25	400	515
58 25 00 65	40HD	3/4	14x18	58	36	30 *	650	725

on request also available as a clockwise-only ratchet
* Caution! Modified settings on torque wrench (refer to note on p. 138)

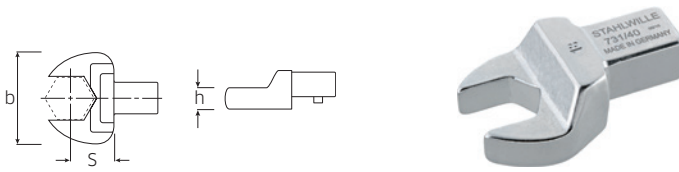
734 Square drive insert tools



Code	size	"	mm	b mm	h mm	S mm	max. N-m	⊖/⊕ g
58 24 00 20	20	1/2	14x18	27	18	25	300	205
58 24 00 40	40	3/4	14x18	40	25	25	650	396

Insert/shell tools

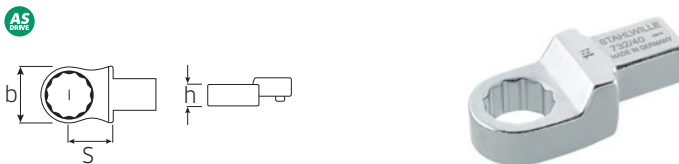
731a/40 Open ended insert tools



Code	"	mm	b mm	h mm	S mm	Δg
58614028	7/16	14x18	30	7	25	127
58614032	1/2	14x18	30	7	25	125
58614034	9/16	14x18	35	8	25	129
58614036	5/8	14x18	38	9	25	136
58614038	11/16	14x18	42	10	25	148
58614040	3/4	14x18	42	10	25	144
58614042	13/16	14x18	50	11	25	171
58614044	7/8	14x18	50	11	25	165
58614046	15/16	14x18	53	12	25	177
58614048	1	14x18	60	13	30*	224
58614052	1 1/8	14x18	66	14	30*	258

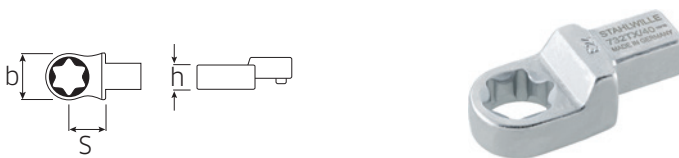
* Caution! Modified settings on torque wrench (refer to note on p. 129)

732a/40 Ring insert tools



Code	"	mm	b mm	h mm	S mm	Δg
58624032	1/2	14x18	22.5	11	25	122
58624034	9/16	14x18	23	11	25	122
58624036	5/8	14x18	25.5	12	25	134
58624038	11/16	14x18	29	13	25	132
58624040	3/4	14x18	30.5	13	25	138
58624042	13/16	14x18	33	15	25	142
58624044	7/8	14x18	34.5	15	25	147
58624046	15/16	14x18	37.5	15	25	151
58624048	1	14x18	41	17	25	160

732TX/40 TORX® insert tools



Code	size	mm	b mm	h mm	S mm	Δg
58294014	E14	14x18	22.5	11	25	130
58294018	E18	14x18	24	11	25	135
58294020	E20	14x18	29	13	25	150
58294024	E24	14x18	30.5	13	25	150

736/40 Bit holder insert tool

- internal hex drive with a collar-thrust spring
- 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)

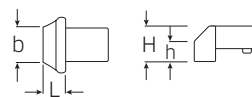


code	mm	"	mm	b mm	h mm	S mm	Δg
58261040	D 8	5/16	14x18	16	12.5	25	114

inside ○ DIN 3126/ISO 1173

737/40 Blank end insert tool

- gunmetal finish
- to prevent damage from excessive temperatures, the locking pin, spring and washer are not fitted until the welding work has been completed
- instructions are supplied
- material: 1.2208 - 31CRV3

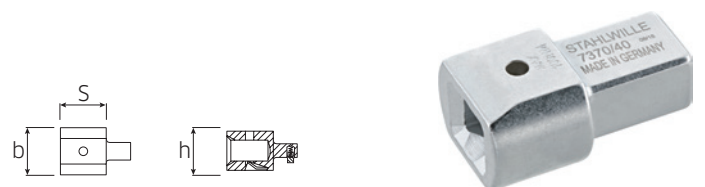


Code	Welding surface h x b mm	mm	H mm	L mm	Δg
58270040	11 x 25	14x18	21.5	12	98

7370/40 Adaptor

QR

- 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
- Caution! Modified settings on torque wrench (refer to note on p. 129)



code	mm	mm	b mm	h mm	S mm	Δg
58290040	14x18	9x12	28	21	21.5	117

7370/40-1 Adaptor

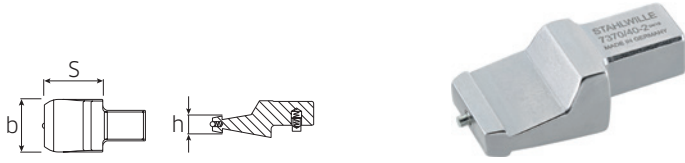
- for using shell tools with an internal square drive of 24.5 x 28 mm on torque wrenches with an internal square drive of 14 x 18 mm
- Caution! Modified settings on torque wrench (refer to note on p. 129)



Code	mm	mm	L mm	Δg
58290041	14x18	24.5x28	66	251

7370/40-2 Adaptor

- for use with insert tools with a lateral dovetail profile in torque wrenches with 14 x 18 mm internal square drives
- Caution! Modified settings on torque wrench (refer to note on p. 129)



Code	mm	b mm	h mm	S mm	△g
58 29 00 42	14x18	31.5	9.5	34.6	138

1821 Tool holder

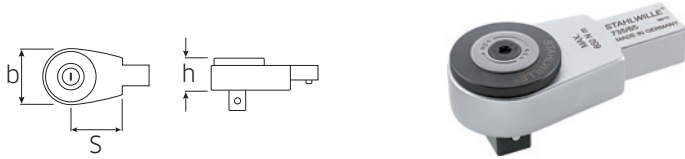
- with tool carrier to receive insert/shell tools (without torque function)



Code	mm	L mm	△g
18 21 00 01	14x18	575	720

735/65 Ratchet insert tool, fine tooth

- reversible
- 60 teeth
- load capacity up to 650 N·m
- for size 65 torque wrenches



Code	"	mm	b mm	h mm	S mm	△g
58 25 10 65	3/4	22x28	61	35	55	1115

735/100 Ratchet insert tool

- with push through square drive
- 30 teeth



Code	"	mm	b mm	h mm	S mm	△g
58 25 01 00	3/4	22x28	76	42	55	1893

734/100 Square drive insert tool



Code	"	mm	b mm	h mm	S mm	△g
58 24 01 00	3/4	22x28	43	42	55	1175

737/100 Blank end insert tool

- gunmetal finish
- to prevent damage from excessive temperatures, the locking pin, spring and washer are not fitted until the welding work has been completed
- instructions are supplied
- material: 1.2208 - 31CRV3



Code	Welding surface h x b mm	mm	H mm	L mm	△g
58 27 01 00	15 x 50	22x28	32	24	483

7370/100 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 22 x 28 mm
- Caution! Modified settings on torque wrench (refer to note on p. 129)

Code	mm	mm	L mm	S mm	△g
58 29 11 00	22x28	24,5x28	85	100	421

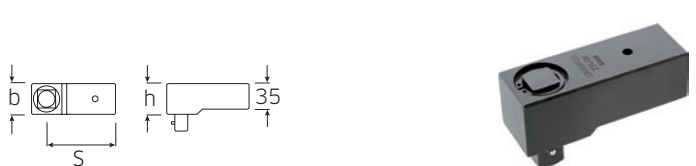
735/80 Ratchet shell tool

- with push through square drive
- 30 teeth



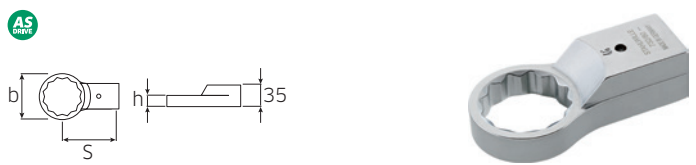
Code	"	mm	b mm	h mm	S mm	△g
58 25 00 80	3/4	24,5x28	76	43	95	1930

734/80 Square drive shell tool



Code	"	mm	h mm	S mm	△g
58 24 00 80	3/4	24,5x28	42	95	1200

732a/80 Ring shell tools



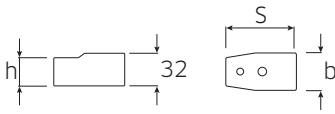
Code	"	mm	b mm	h mm	S mm	△g
58 62 80 46	15/16 ¹⁾	24,5x28	36	14	95	604
58 62 80 50	1 1/16 ¹⁾	24,5x28	40.5	14	95	608

¹⁾ for jet engine pins (Airbus A320/A321)

Insert/shell tools

7370/80 Shell adaptor

- for attaching 14 x 18 mm insert tools
- Caution! Modified settings on torque wrench (refer to note on p. 129)



Code	mm	mm	b mm	h mm	S mm	±g
58 29 00 80	24,5x28	14x18	36	26	70	300

1822 Tool holder

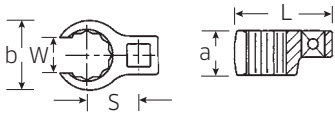
- with tool carrier to receive insert/shell tools (without torque function)



Code	mm	L mm	±g
18 22 00 03	24,5x28	1000	2057

440a CROW-RING spanners

- Chrome Alloy Steel, chrome plated
- Caution! Modified settings on torque wrench



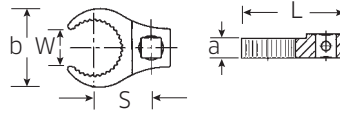
Code	"	"	L mm	b mm	a mm	S mm	W mm	±g	
01 49 00 24	3/8 ¹⁾	1/4	28.4	18.2	13.5	14	7.1	16	1
01 49 00 28	7/16	1/4	28	18.2	13.5	14	8.6	14	1
01 49 00 32	1/2	1/4	30.5	20.6	14	15.7	10	19	1
01 49 00 34	9/16	1/4	31.7	22.2	14	16.4	11.1	23	1
02 49 00 36	5/8	3/8	36.5	24.6	17.5	19.1	11.9	33	1
02 49 00 38	11/16	3/8	39.2	27.3	17.5	20.5	14	36	1
02 49 00 40	3/4	3/8	40.9	29	18.5	21.3	14.2	44	1
02 49 00 42	13/16	3/8	42.9	31.3	18.5	22.5	15.8	51	1
02 49 00 44	7/8	3/8	45.2	33.5	19	23.6	17.5	62	1
02 49 00 46	15/16	3/8	47.2	35.7	19.5	24.6	18.3	63	1
02 49 00 48	1	3/8	49.3	37.7	20	25.7	19	71	1
02 49 00 50	1 1/16	3/8	52.8	40	21.4	28.2	20	84	1
03 49 00 52	1 1/8	1/2	56.8	42.1	22.5	29.3	21	110	1
03 49 00 56	1 1/4	1/2	62.5	48	22.5	32.5	23.8	137	1
03 49 00 58	1 5/16	1/2	62.3	48	22.5	32.5	24.6	130	1
03 49 00 60	1 3/8	1/2	64.2	50	24	33.5	27	138	1
03 49 00 62	1 7/16	1/2	66.5	51.9	24	34.6	27	143	1
03 49 00 64	1 1/2	1/2	68.1	53.9	24	35.6	28.6	152	1
03 49 00 65	1 9/16	1/2	70.1	55.9	24	36.7	29.4	172	1
03 49 00 66	1 5/8	1/2	71.8	57.9	24.5	37.7	31	169	1
03 49 00 68	1 3/4	1/2	75.6	62	25.5	39.8	33.2	199	1
03 49 00 69	1 13/16	1/2	77.7	64.2	26	40.9	34.1	229	1
03 49 00 72	2	1/2	83.2	70.5	27.5	44.1	39.7	277	1
03 49 00 76	2 1/4	1/2	91.2	78.7	29.5	48.2	42.8	337	1
03 49 00 77	2 5/16	1/2	93.3	80.9	30	49.2	43.6	309	1
03 49 00 78	2 3/8	1/2	95.2	83	30.5	50.2	46	385	1

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

440S MJ CROW-RING spanners

HPO

- HPO® high performance steel, chrome plated
- supersedes No 440 MJ
- EN 4108
- for pipe unions with straight cylindrical involute toothing
- Caution! Modified settings on torque wrench (refer to note on p. 129)



Code	Threaded nut	mm	"	L mm	b mm	a mm	S mm	W mm	±g	
01 21 10 10	MJ10	DN04	1/4	31.9	22	8	17	6.5	54	1
01 21 10 14	MJ14	DN06	1/4	36.5	27	8	19.5	8.5	29	1
02 21 10 16	MJ16	DN08	3/8	43.8	31	8	24	10.5	46	1
02 21 10 18	MJ18	DN10	3/8	45.2	33	8	25	13	47	1
02 21 10 20	MJ20	DN12	3/8	46.2	35	8	26	15	49	1
02 21 10 22	MJ22	DN14	3/8	48.4	37	9	27	17.5	54	1
02 21 10 24	MJ24	DN16	3/8	49.5	39	9	28	19.7	56	1
02 21 10 27	MJ27	DN18	3/8	54.4	44	10	31	21.5	70	1
02 21 10 30	MJ30	DN20	3/8	60.8	50	10	36	23.7	93	1

1225 Special extension

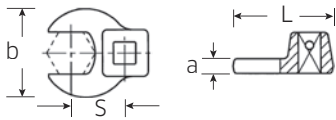
- 3/8" ■
- offset



code	L mm	d mm	±g	
12250001	150	17	128	5

540a CROW-FOOT spanners

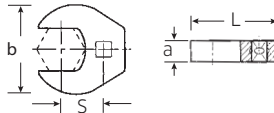
- Chrome Alloy Steel, chrome plated
- Caution! Modified settings on torque wrench (refer to note on p. 129)



Code	"	"	L mm	b mm	a mm	S mm	△g	g	☐
01500024	3/8	1/4	25.5	19.8	6.3	14.6	17	1	
02500028	7/16	3/8	32	22.2	6.3	17.2	34	1	
02500032	1/2	3/8	34.3	25.4	6.3	18.1	37	1	
02500034	9/16	3/8	37.7	30	6.3	20.9	40	1	
02500036	5/8	3/8	37.7	30	6.3	20.4	44	1	
02500038	11/16	3/8	42.5	38	6.3	24.1	62	1	
02500040	3/4	3/8	42.5	38	6.3	24	66	1	
02500042	13/16	3/8	42.3	38	6.3	24	59	1	
02500044	7/8	3/8	44.5	41	6.3	25.8	65	1	
02500048	1	3/8	47	45	8	26.7	78	1	
02500050	1 1/16	3/8	47	45	8	27.2	78	1	
02500052	1 1/8	3/8	50	50	8	28.5	84	1	
02500054	1 3/16	3/8	50	50	8	29.2	83	1	
02500056	1 1/4	3/8	53	57	8	30.3	101	1	
02500058	1 5/16	3/8	53	57	8	31.2	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	33.1	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	35.7	126	1	
02500066	1 5/8	3/8	63	70	8	37.3	140	1	
02500067	1 11/16	3/8	63	70	8	37.7	126	1	
02500068	1 3/4	3/8	68	76	8	40.4	161	1	
02500070	1 7/8	3/8	72	82	8	42	205	1	
02500072	2	3/8	75	88	8	44.8	214	1	
02500074	2 1/8	3/8	75.6	91	10	46	265	1	
02500076	2 1/4	3/8	80.5	96	10	49.5	297	1	
03500078	2 3/8	1/2	81.5	96	8	51.3	214	1	

540a HD CROW-FOOT spanners heavy-duty

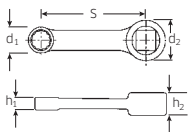
- for particularly high loadings, e.g. stainless steel screw fittings
- full use of jaws in conjunction with standard ratchets
- chrome plated
- supplied without ratchet
- Caution! Modified settings on torque wrench (refer to note on p. 129)



Code	"	"	L mm	b mm	a mm	S mm	△g	g	☐
02501034	9/16	3/8	43.4	32	11	26.8	52	1	
02501036	5/8	3/8	45	34.8	11	27.7	58	1	
02501038	11/16	3/8	47.2	38	11	28.6	69	1	
02501042	13/16	3/8	51	46.4	11	30.5	113	1	
02501044	7/8	3/8	52	48	11	31.3	99	1	
02501046	15/16	3/8	54	51.2	11	32.3	129	1	
02501048	1	3/8	56	53.4	11	33.2	133	1	
02501050	1 1/16	3/8	57	53.8	11	34.1	124	1	
02501052	1 1/8	3/8	59	53.8	11	35	128	1	
02501056	1 1/4	3/8	62	60	11	36.8	153	1	
02501062	1 7/16	3/8	66.5	66	11	39.6	172	1	
03501064	1 1/2	1/2	76	70	16	45	310	1	
03501069	1 13/16	1/2	85	84	16	49.6	400	1	
03501072	2	1/2	89	90	16	52.3	451	1	
03501074	2 1/8	1/2	91.5	92.8	16	54.2	460	1	
03501075	2 3/16	1/2	93	96	16	55.1	480	1	
03501076	2 1/4	1/2	95	99	16	56	500	1	

447a Adaptor

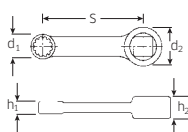
- SAE AS 954-E
- HPQ® high performance steel, gunmetal finish
- Caution! Modified settings on torque wrench (refer to note on p. 129)



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

447aSP Spline-Drive adaptor

- MS-33787, MIL-W-8982
- HPQ® high performance steel, gunmetal finish
- Caution! Modified settings on torque wrench (refer to note on p. 129)



code	Spline size	"	"	d ₁ mm	d ₂ mm	h ₁ mm	h ₂ mm	S mm	△g	g	☐
02480014	7	7/32	3/8	9.4	19	6	11	50.8	28	1	
02480016	8	1/4	3/8	10.4	19	6	11	50.8	27	1	
02480018	9	9/32	3/8	11.5	19	6	11	50.8	29	1	
02480020	10	5/16	3/8	12.4	19	6	11	50.8	29	1	
02480024	12	3/8	3/8	14.9	19	8	11	50.8	38	1	
02480028	14	7/16	3/8	17	19	9.2	11	50.8	39	1	
02480032	16	1/2	3/8	19	19	9.2	11	50.8	59	1	
02480034	18	9/16	3/8	21	19	9.2	11	50.8	55	1	
02480036	20	5/8	3/8	23	19	12	11	50.8	74	1	

MULTIPOWER

MP100-1500 MULTIPOWER

- particularly compact construction
- light and easy to handle
- with ratchet function
- working angle 8°
- with rotary scale
- for use with a torque wrench with a fixed 1/2" square drive
- patent
- in carrying box
- included in the set: 3 hexagon inserts 30; 32; 36 mm, 1 insert with 1" outer square drive, 1 reaction arm 400 mm
- display deviation value ± 5%**



Code	N·m ¹⁾	ft·lb ¹⁾	N·m ²⁾	ft·lb ²⁾	Gear ratio	Torque ratio	□ "	b mm	h mm	L mm	Δ⌀ g	Δ⌀ g with box
96 53 1500	1500	1106	300	221	5.62 : 1	1 : 5	1/2	105	30	165	1890	3630

¹⁾ max. output

²⁾ max. input

5

MULTIPOWER MP300

Makes child's play of the largest torques.

MULTIPOWER or really "toughwork".

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.

Accordingly, construction materials and workmanship are extremely robust.

When combined with STAHLWILLE torque wrenches, MULTIPOWER really shows its strength.

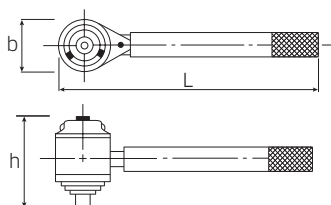
The MULTIPOWER range extends to 5000 N·m/3687 ft·lb.

MULTIPOWER tools are also available on request up to 12000 N·m/8850 ft·lb.

The MULTIPOWER from 2000 N·m are fitted with an anti-backlash device.

MP300 MULTIPOWER

- with overload protection and planetary gears
- in carrying box
- with one spare sun wheel (overload cut-out)
- deviation of indication ± 5%**



code	size	N·m ¹⁾	ft·lb ¹⁾	N·m ²⁾	ft·lb ²⁾	Gear ratio	Torque ratio	□ "	■ "	b mm	h mm	L mm	Δ⌀ g	Δ⌀ g with box
53030800	800	800	590	229	169	4 : 1	1 : 3.5	1/2	3/4	66	85	215	2000	5838
53031350	1350	1350	996	375	277	4 : 1	1 : 3.6	3/4	3/4	90	106	265	3400	7500
53032000	2000 *)	2000	1475	160	118	16 : 1	1 : 12.5	1/2	1	95	161	330	7000	11000
53033000	3000 *)	3000	2212	240	177	16 : 1	1 : 12.5	3/4	1	95	161	330	7000	10805
53035000	5000 *)	5000	3687	294	217	20 : 1	1 : 17.0	3/4	1 1/2	120	180	400	10400	14000

MULTIPOWER tools are also available on request up to 12000 N·m/8850 ft·lb.

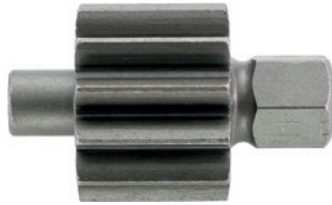
*) with anti-backlash device

¹⁾ max. output

²⁾ max. input

Spares for MULTIPOWER

SR290-393 Sun wheel with overload cutout



Code	No	for No	⌀ g
59030800	SR300-800	MP300-800	45
59031350	SR300-1350	MP300-1350	106
59032000	SR300-2000	MP300-2000	120
59033000	SR300-3000	MP300-3000	130
59035000	SR300-5000	MP300-5000	127
59300039	SR290N	STW 290N	18
59300067	SR295N	STW 295N	95
59300068	SR391N	STW 391N	95
59300069	SR392N	STW 392N	95
59300070	SR393N	STW 393N	105

Sets of spare parts for ratchet insert tools

4150QR Spare parts set



Content 11 pieces:
1 pinion; 1 pawl; 2 levers with pin; 1 ball; 2 compression springs;
2 screws M 1.7 x 8; 2 cover plates

code	for No	g
1901 1020	725QR/4	24

4350QR Spare parts set



Content 8 pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs;
2 screws

code	for No	g
1902 0020	725QR/5	51

7250QR/10 Spare parts set



Content 8 pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 screws

code	for No	g
1904 1020	725QR/10	64

5120QR Spare parts set



Content 8 pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 screws

code	for No	g
1904 0020	725QR/20	118

7250B Spare parts sets

Content 9 pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs;
2 screws; 1 cover plate

code	size	for No	g
1901 2022	4	725B/4	21
1901 2023	5	725B/5	48

7250L/5 Spare parts set

Content 9 pieces:
1 pinion; 1 pawl; 1 change-over button with pin; 1 ball; 2 compression
springs; 2 screws; 1 cover plate

code	for No	g
1902 1000	725L/5	70

7250/4 Spare parts set

Content 9 pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs;
2 screws; 1 cover plate

code	for No	g
1901 2021	725/4	26

7350/5 Spare parts set

Content 7 pieces:
1 pinion; 1 pawl; 1 switching disk; 1 spring; 3 screws

code	for No	g
5925 1005	735/5	85
for ratchets from 12/97		

7350/10 Spare parts set

Content 7 pieces:
1 pinion; 1 pawl; 1 switching disk; 1 spring; 3 screws

code	for No	g
5925 1010	735/10	96
for ratchets from 12/97		

7350/20 Spare parts set

Content 7 pieces:
1 pinion; 1 pawl; 1 switching disk; 1 spring; 3 screws

code	for No	g
5925 1020	735/20	140
for ratchets from 4/96		

7350/40 Spare parts set

Content 7 pieces:
1 pinion; 1 pawl; 1 switching disk; 1 spring; 3 screws

code	for No	g
5925 1040	735/40	219
for ratchets from 5/97		

7350/40HD-65 Spare parts set

Content 7 pieces:
1 pinion; 1 pawl; 1 switching disk; 1 spring; 3 screws

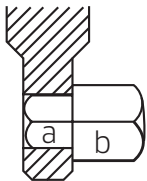
code	for No	g
5925 1065	735/40HD; 735/65	429

7210 Ratchet spare parts sets for torque wrenches No 721

code	No	Content	g
59 19 1005	7210/5	For ratchet/torque wrench No 721/5, 721/5 Quick: 1 pinion, 1 pawl, 1 switch-over button and pin, 1 ball, 2 compression springs, 2 screws	53
19040000	5120 + 7210/15	For ratchet/torque wrench No 721/15, 721/15 Quick, 721/20, 721/20 Quick: 1 pinion, 1 pawl, 1 lever, 1 lever pin, 1 ball, 2 compression springs, 2 screws	127
59 19 1030	7210/30	For ratchet/torque wrench No 721/30, 721/30 Quick: 1 pinion, 1 pawl, 1 lever, 1 lever pin, 1 ball, 2 compression springs, 2 screws	134
59 19 1080	7210/80	For ratchet/torque wrench No 721Nf/80, 721Nf/100, 735/80, 735/100: 1 pinion, 2 pawls, 2 spring contact points, 2 compression springs	443

70V Square drive units

• for torque wrenches and insert tools



502 1/2



70V 16

code	size	for No	a "	b "	L mm	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	40	5
59010007	7	721/30, 721/30 Quick	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; 734/80; 734/100; 735/80; 735/100	3/4	3/4	65	179	1
59010016	16*	720Nf/80; 721Nf/80+100; 734/40; 734/80; 734/100; 735/80; 735/100	3/4	3/4	88	240	1

* extra-long, firmly locked, so usable from both sides

Accredited by the highest authority. STAHLWILLE's calibration laboratory.

Controlled tightening of fasteners is becoming increasingly important and is a must for safety and quality assurance. As clear confirmation of its expertise in the field of controlled tightening, STAHLWILLE is accredited by the DAkkS accreditation authority (Deutsche Akkreditierungsstelle) as an approved calibration laboratory for »torque«.



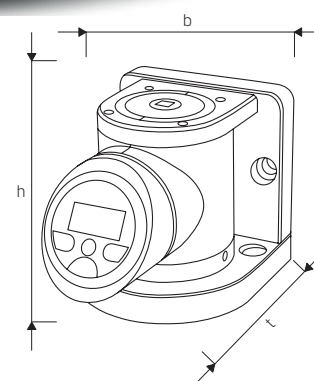
The STAHLWILLE calibration service offers both works calibration certificates and DAkkS calibration certificates.

SmartCheck

Tester for torque wrenches and torque screwdrivers

- compact construction
- for horizontal or vertical mounting
- display, display mount and base body can be rotated through 180°
- three operating modes (track, first peak, peak hold)
- three measuring units (N·m, ft·lb, in·lb)
- the target torque and tolerances can be set individually to evaluate the readings
- operating mode using a mains adapter or battery (4 x AAA or 1 x 9 V block, adapter included)
- with integrated visual and audible overload protection mechanism
- the display and keypad are splash-proof, and the housing is made of impact-resistant plastic
- with certificate
- supplied in sturdy plastic box
- **display deviation value $\pm 1\%$**

SmartCheck Torque Tester



code	No	capacity N·m	capacity ft·lb	capacity in·lb	Ø "	b mm	h mm	t mm	⚖ g
96 52 1201	SmartCheck 10S *	1-10	0.74-7.4	8.9-88.5	1/4	120	124	167	5210
96 52 1202	SmartCheck 10	1-10	0.74-7.4	8.9-88.5	1/4	120	124	167	5210
96 52 1203	SmartCheck 100	10-100	7-74	89-885	3/8	120	124	167	5310
96 52 1204	SmartCheck 400	40-400	30-295	354-3540	3/4	120	124	167	5690
96 52 1205	SmartCheck 800	80-800	59-590	708-7081	3/4	120	124	167	5690

*) for checking torque screwdrivers

Electronic torque tester for torque wrenches **SENSOTORK® 7707 W** (For complete calibration systems see p. 167, 171)

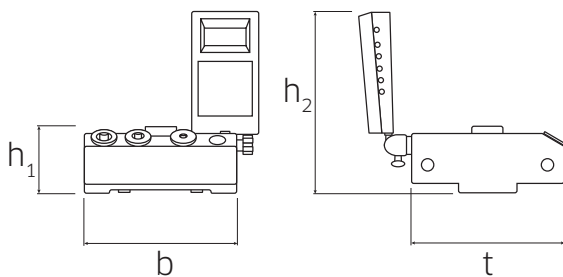
- compact torque tester for easy adaptation by replacement of the transducers
- high degree of accuracy thanks to flat transducer and conversion and digitalisation of readings within the transducer (see p. 165)
- high degree of safety through display showing actual torque read-off where clicking torque wrenches are used

7707 W Torque tester **SENSOTORK®**

Electronic torque tester for torque wrenches, consisting of:

- transducer (patent)
- holder
- display unit (registered design)
- tripod for display unit (with 1.5 m cable)
- spiral cable
- mains adaptor (110 V-230 V with interchangeable socket adaptors) or direct connection to 12 V in-car supply is possible
- square drive adaptor (No 7707-2W, No 7707-2-1W, No 7707-2-2W, 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 approx. 2 % to 100 % of rated value
- the software No 7759-4, including USB hub and jack cable (see p. 175), enables readings to be transferred to the PC for documenting (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)
- complies with DIN 51309: 2005, Class 2 and DKD-R 3-8: 2003
- with certificate
- supplied in sturdy plastic box

5



QR

QuickRelease Rapid change and firm locking of the transducers thanks to the QuickRelease safety lock.

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.



Code	No	Capacity N·m	Capacity ft·lb	Capacity in·lb	□ "	b mm	h_1 mm	h_2 mm	t mm	\varnothing g	\varnothing g with box
96 52 1086	7707-1-3W ¹⁾	0.2-10	0.15-7.4	1.8-88.5	1/4	180	79	215	180	6255	9500
96 52 1085	7707-1-2W	0.2-10	0.15-7.4	1.8-88.5	1/4	180	79	215	180	6255	9500
96 52 1080	7707-1W	0.4-20	0.3-15	3.5-177	1/4	180	79	215	180	6255	9500
96 52 1072	7707-2W ²⁾	2-100	1.5-74	18-885	3/8	180	79	215	180	7025	10300
96 52 1083	7707-2-1W ³⁾	4-200	3-148	35-1770	1/2	180	79	215	180	7511	10975
96 52 1084	7707-2-2W ⁴⁾	8-400	6-295	71-3540	3/4	180	79	215	180	7654	11100
96 52 1082	7707-3W ⁴⁾	25-1100	18-812	221-9736	3/4	180	79	215	180	7495	11000

¹⁾ for calibrating torque screwdrivers

²⁾ with square drive adaptor No 409M (1/4" □ x 3/8" ■)

³⁾ with square drive adaptors No 7789-4 (1/4" □ x 1/2" ■), No 7789-5 (3/8" □ x 1/2" ■)

⁴⁾ 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" ■)

Which transducer is for which torque tool?

(for manually operated testing, calibration technology on page 164-173)

	7721	7721-0	7721-1	7722	7723-1	7723-2	7723-3	7724-1		7721	7721-0	7721-1	7722	7723-1	7723-2	7723-3	7724-1		7721	7721-0	7721-1	7722	7723-1	7723-2	7723-3	7724-1
760	●								730a/2		●	●						730Na/20					●	●		
775	●								730a/4			●	●					730Na/40						●	●	
TORSIOTRONIC	●								730/80							●	●	701/2		●						
71/80							●	●	721/5			●	●					730D/10			●	●	●			
71aR/80							●	●	721/15				●	●	●			730D/20				●	●			
73Nm/15		●	●						721/20				●	●	●			730D/40					●	●		
755R/1		●							721/30					●	●			730D/65						●		
755/4			●	●					721QR/15				●	●	●			730DII/65							●	
755/10				●	●				721QR/20				●	●	●			730D/80							●	
755/20					●	●	●		720Nf/80							●	●	730D/100							●	
755/30						●	●		721Nf/80							●	●	714/ 1		●	●					
730/5			●	●					721Nf/100							●	●	714/ 2			●	●				
730/10				●	●				730N/2		●	●						714/ 4				●	●			
730/12				●	●	●			730N/5			●	●					714/ 6				●	●			
730/20				●	●	●			730N/10				●	●				714/10					●	●		
730/40					●	●			730N/12				●	●	●			714/20					●	●		
730/65						●			730N/20				●	●				714/40						●	●	
730II/65						●			730N/40					●	●			714/65							●	
730a/5			●	●					730N/65						●			714/80							●	
730a/10				●	●				730NII/65						●			714/100							●	
730a/12				●	●	●			730N/80						●	●		713R/6			●					
730a/20					●	●	●		730N/100						●	●		713R/20				●	●			
730/2		●	●						730Na/2		●	●						713R/40					●			
730/4			●	●	●				730Na/5			●	●	●				712R/6		●						
730a/2-1	●	●							730Na/10				●	●												

7721-7724 Transducers

- patent
- for calibration of torque wrenches and torque screwdrivers
- high degree of accuracy thanks to conversion and digitization of readings within the transducer itself
- not susceptible to lateral forces due to low-profile construction
- can also be used as part of a calibration system (see p. 167, 171)
- with certificate
- supplied in sturdy plastic box
- measuring ranges by deviation of indication



Measuring ranges by deviation of indication

Code	No	Display deviation value ± 1% of the reading			Display deviation value ± 0.5% of the reading			Display deviation value ± 0.25% of the reading			Ø mm	Ø "	Δ g	Δ g with box
		N-m	ft-lb	in-lb	N-m	ft-lb	in-lb	N-m	ft-lb	in-lb				
9652 1021	7721 ¹⁾	0,2-10	0,15-7,4	1,8-88,5	1-10	0,74-7,4	8,9-88,5	2-10	1,5-7,4	17,7-88,5	120	1/4	1735	2411
9652 1000	7721-0	0,2-10	0,15-7,4	1,8-88,5	1-10	0,74-7,4	8,9-88,5	2-10	1,5-7,4	17,7-88,5	120	1/4	1735	2411
9652 1026	7721-1	0,4-20	0,3-15	3,5-177	2-20	1,5-15	18-177	4-20	3-15	35-177	120	1/4	1735	2411
9652 1022	7722	2-100	1,5-74	18-885	10-100	7-74	89-885	12-100	9-74	106-885	120	3/8	2486	3223
9652 1023	7723-1	4-200	3-148	35-1770	20-200	15-148	177-1770	40-200	30-148	354-1770	120	1/2	2983	3605
9652 2023	7723-2	8-400	6-295	71-3540	40-400	30-295	354-3540	80-400	59-295	708-3540	120	3/4	3134	3745
9652 1028	7723-3	25-1100	18-812	221-9736	110-1100	81-812	974-9736	220-1100	162-812	1947-9736	120	3/4	2998	3761
9652 1029	7724-1 ²⁾	150-3000	111-2214	1328-26553	300-3000	221-2214	2655-26553	600-3000	443-2214	5311-26553	195	1 1/2	10500	12000

¹⁾ for calibrating torque screwdrivers
²⁾ for use with mechanical loader No 7792 and 7792-1 (S. 243)

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. DAKKS certificates must be ordered separately see p. 162

Accurate, dependable and safe. **STAHLWILLE calibration.**

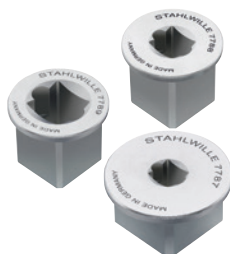
Calibration is the regular examination of the accuracy and reliability of torque tools. This is essential because torque tools are precision instruments which are very often in use in safety-relevant environments. In order to be able to deliver dependable measured values in the long term, it is essential that examination by means of calibration takes place at regular intervals and is documented. A calibration system comprises several components:



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.



USB adapter - transfers the data to the PC.



The **square drive adapters** required to utilise the measuring range of the transducers are included; e.g. for transducer No 7728-100 (female 3/4" square drive) this is 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).



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 can be applied slowly and steadily within the required time.

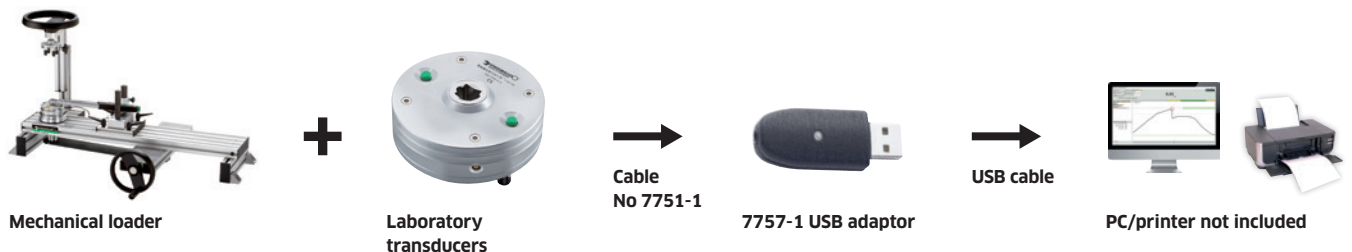














The transducer is connected to the USB adapter by means of a **cable** with a jack and a self-locking precision plug.



Software - The data received in this way can then be used to issue and manage Declarations of Conformity or calibration certificates in accordance with DIN EN ISO 6789:2017.

Coordinated – down to the last detail. STAHLWILLE calibration systems.



	No for full system	7706-8 PC	7706-9 PC	7706-10 PC	7706-11 PC
	Code	96 52 10 68	96 52 10 69	96 52 10 70	96 52 10 74
	Weight in kg	14.2	67.6	70.6	108.4
	Range N·m	1-10	2-100	2-1000	20-3000
	Mechanical loader	-	No 7791	No 7791	No 7792
	»Stand alone« test attachment for torque screwdrivers	No 7790	-	-	-
	Extension	-	-	No 7791-1	No 7792-1
	Laboratory transducers	No 7728-1S (1-10 N·m)	No 7728-2 (2-20 N·m) No 7728-10 (10-100 N·m)	No 7728-2 (2-20 N·m) No 7728-10 (10-100 N·m) No 7728-40 (40-400 N·m) No 7728-100 (100-1000 N·m)	No 7728-20 (20-200 N·m) No 7728-100 (100-1000 N·m) No 7728-300 (300-3000 N·m)
	USB adapter	No 7757-1	No 7757-1	No 7757-1	No 7757-1
	Jack cable	No 7751	No 7751	No 7751	No 7751
	Cable to No. 7728 (transducer to USB adapter)	No 7751-1	No 7751-1	No 7751-1	No 7751-1
	Square drive adapters	No 431 (3/8" □ x 1/4" ■)	No 431 (3/8" □ x 1/4" ■) 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 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 7789-2 (3/4" □ x 1 1/2" ■) No 7789-3 (1" □ x 1 1/2" ■) No 7789-4 (1/4" □ x 1/2" ■) No 7789-5 (3/8" □ x 1/2" ■)
	Calibrating square drive insert tools	-	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■)	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■) No 734K/20 (1/2" ■) No 734K/40 (3/4" ■)	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■) No 734K/20 (1/2" ■) No 734K/40 (3/4" ■)
	Adapters	No 3115 (1/4" ■ x 1/4" ● E 6,3) No 3115/1 (1/4" ■ x 1/4" ● C 6,3)	-	-	-
	Calibration software	TORKMASTER	TORKMASTER	TORKMASTER	TORKMASTER
	DAkkS calibration certificates	1	2	4	3

/M|a|n|u|t|o|r|k|®

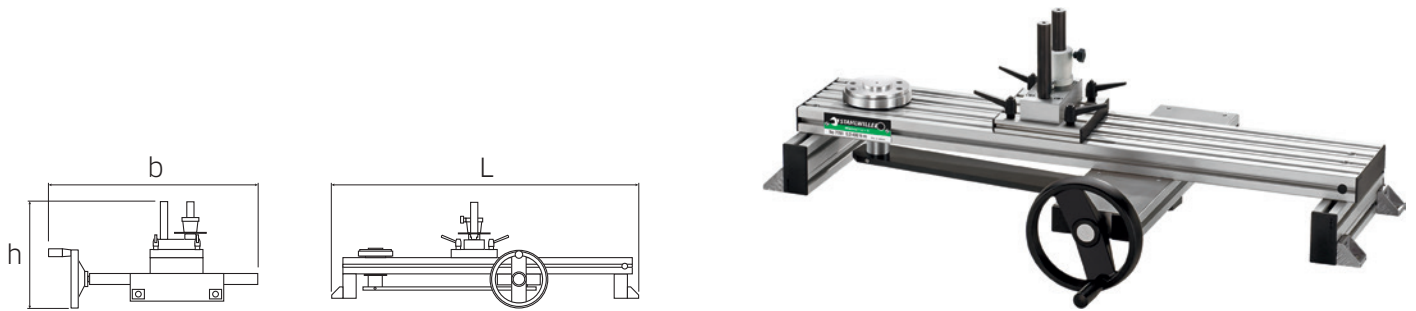
Mechanical loaders for torque wrenches and torque screwdrivers

Thanks to the modular design, end users can put together their own mechanical loader according to their specific requirements. Extensions with additional components are possible any time. All the components are carefully matched to ensure compatibility and can be easily fitted. This slot-in system is easy to use and has a very accurate fit. The components can be quickly and easily locked together using the integrated screw joints. The display unit can be attached at various points of the system via a holder. In this way, every user can organize his or her work to suit themselves.

7791 Mechanical loaders up to 400 N·m

- measurement possible without moving the point of application of force
- thanks to a specially designed force transmission system, mechanical loader No 7791 avoids the risk of the point of force application shifting during the calibration process
- the lever below the test rail is actuated in a linear direction by the handwheel acting on a spindle
- the linear motion is translated into a rotary movement which acts on the transducer
- the torque wrench to be calibrated remains in the same position throughout the calibration process
- this prevents measuring errors caused by the point of force application being moved
- thanks to a low-friction linear ball bearing, the torque wrench is automatically levelled as it is placed in the unit
- a further linear ball bearing ensures the contact with the torque wrench is friction-free
- the reduction in lateral forces acting on the transducer and in the friction on the point of contact with the torque wrench results in a corresponding reduction in mismeasurement
- protected by national and international patents

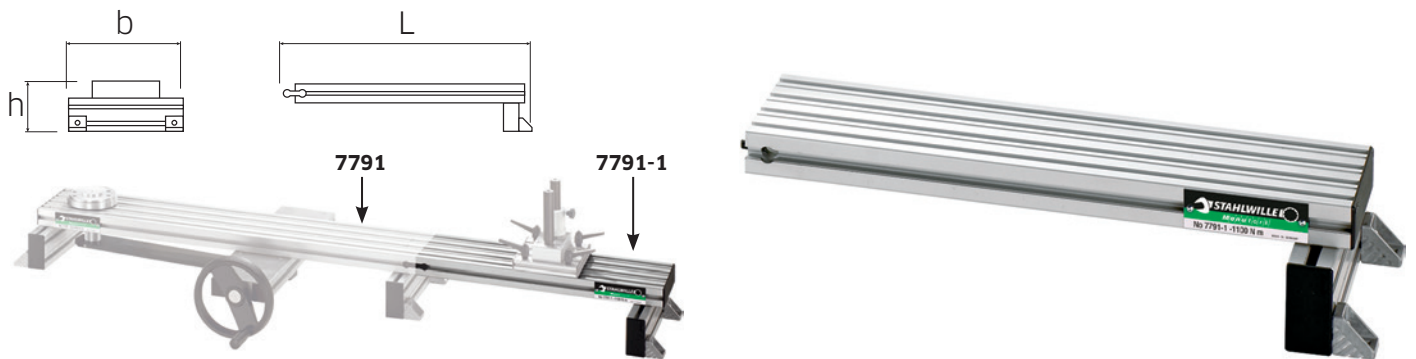
5



Code	Capacity N·m	for transducer for torque wrenches with functional length (L _F) max. mm	Profile width mm	b mm	h mm	L mm	⊕ kg
52110091	-400	sizes 1-100	180	704	323	1069	44.8

7791-1 Extension unit for No 7791, 7794-1 and 7794-2 up to 1000 N·m

- with one pair of adapter plates No 7770-3 for height compensation between extension unit No 7791-1 and perfectControl® calibrating units No 7794-1 and No 7794-2



Code	Capacity N·m	for torque wrenches with functional length (L _F) max. mm	Profile width mm	b mm	h mm	L mm	⊕ kg
52110191	-1000	1390 (7791 + 7791-1)	180	308	135	673	8

7792 Mechanical loaders unit to 1000 N·m



Code	Capacity N·m	for transducer	for torque wrenches with functional length (L _F) max. mm	Profile width mm	b mm	h mm	L mm	⊕ ⊖ kg
52 11 0092	-1000	sizes 20; 100; 300	1390	270	722	323	1668.5	58

7792-1 Extension unit for No 7792 up to 3000 N·m

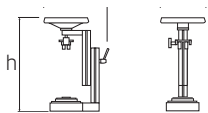


Code	Capacity N·m	for torque wrenches with functional length (L _F) max. mm	Profile width mm	b mm	h mm	L mm	⊕ ⊖ kg
52 11 0192	-3000	2390 (7792 + 7792-1)	270	558	135	1073	18.5

Test attachments for torque screwdrivers

7790 Mechanical loaders for torque screwdrivers

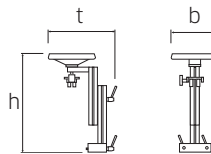
- can be bolted to mechanical loader No 7792
- the torque screwdriver to be calibrated is inserted in the square mount of the transducer and fixed using the universal central clamp
- the handwheel ensures that the required force is applied in a controlled manner to the torque screwdriver
- supplied without transducer or torque screwdriver



Code	Capacity N·m	for transducer	b mm	h mm	t mm	⊕ ⊖ kg
58 52 1090	-10	7728-1S	250	442-593	351	9

7791-2 Test attachment for torque screwdrivers

- can be bolted onto mechanical loader No 7791
- the torque screwdriver to be calibrated is inserted in the square mount of the transducer and fixed using the universal central clamp
- the handwheel ensures that the required force is applied in a controlled manner to the torque screwdriver



Code	Capacity N·m	b mm	h mm	t mm	⊕ ⊖ kg
52 11 0291	-10	250	442-593	351	3.7

Accessory

7750-1 Holder

- for display unit No 7750
- can be bolted to test attachments



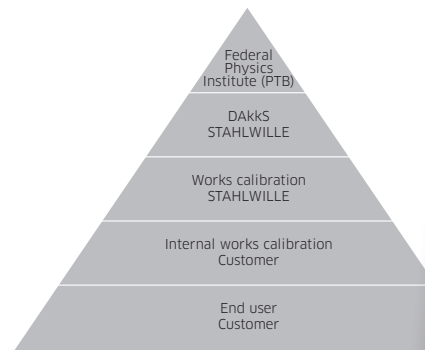
code	⊕ ⊖ g
52 10 1050	165

Audited. Documented. Certified. STAHLWILLE DAKKS calibration laboratory.

STAHLWILLE's DAKKS calibration laboratory for torque is accredited by the German Accreditation Service (DAKKS) in accordance with DIN EN ISO/IEC 17025:2018. The transfer torque wrenches and torque transducers in use in the 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 end-user checks the accuracy of the torque tools in-house using suitable calibrated testing equipment. At the next stage, this test equipment is checked in STAHLWILLE's DAKKS calibrating laboratory. This accreditation by the German Calibration Service (DKD) in accordance with DIN EN ISO/IEC 17025:2018 guarantees the direct link between the measuring equipment and the national standard as laid down in DIN EN ISO 9001:2015.

5



Relationship between the national standard and the equipment

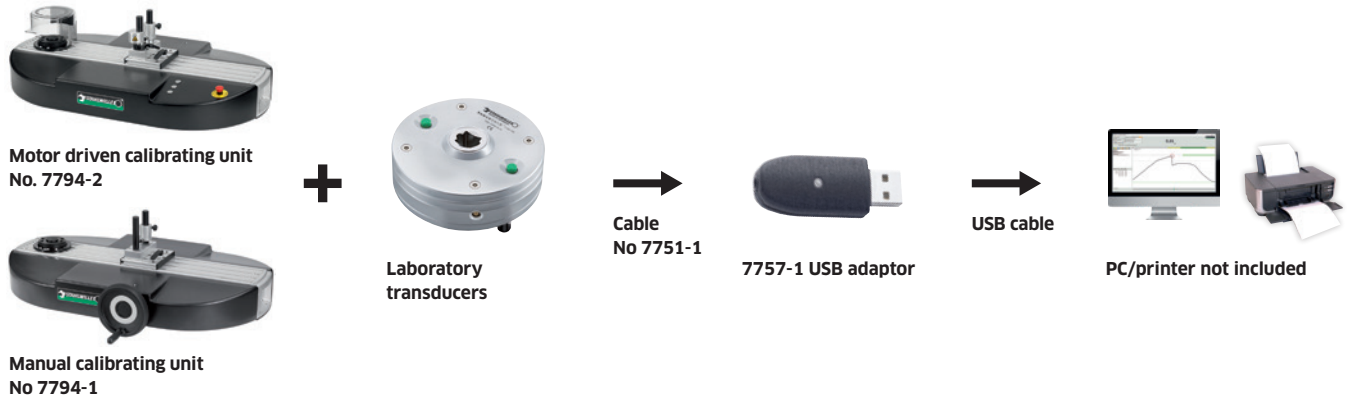


CONFORMS TO STANDARDS.

The accreditation means the specific requirements listed in Technical Specification ISO/TS 16949 relating to testing laboratories are fulfilled. This is absolutely essential for all suppliers in the automotive sector.



Precisely matched products. perfectControl calibration systems.



No for full system	7794-2/400	7794-2/1000	7794-1/400	7794-1/1000
Code	96 52 10 78	96 52 10 79	96 52 10 76	96 52 10 77
Weight in kg	62.1	69.8	53.2	60.9
Range N·m	1-400	1-1000	1-400	1-1000
Motor driven calibrating unit	No 7794-2	No 7794-2	-	-
Manual calibrating unit	-	-	No 7794-1	No 7794-1
Extension	-	No 7791-1	-	No 7791-1
Laboratory transducers	No 7728-1 (1-10 N·m) No 7728-6 (6-60 N·m) No 7728-40 (40-400 N·m)	No 7728-1 (1-10 N·m) No 7728-6 (6-60 N·m) No 7728-40 (40-400 N·m) No 7728-100 (100-1000 N·m)	No 7728-1 (1-10 N·m) No 7728-6 (6-60 N·m) No 7728-40 (40-400 N·m)	No 7728-1 (1-10 N·m) No 7728-6 (6-60 N·m) No 7728-40 (40-400 N·m) No 7728-100 (100-1000 N·m)
USB adapter	No 7757-1	No 7757-1	No 7757-1	No 7757-1
Jack cable	No 7751	No 7751	No 7751	No 7751
Spiral cable	No 7752	No 7752	No 7752	No 7752
Cable for No 7728	No 7751-2	No 7751-2	No 7751-2	No 7751-2
Square drive adapter	No 409M (1/4" $\text{O} \times 3/8"$ ■) No 7787 (1/4" $\text{O} \times 3/4"$ ■) No 7788 (3/8" $\text{O} \times 3/4"$ ■) No 7789 (1/2" $\text{O} \times 3/4"$ ■) No 7789-4 (1/4" $\text{O} \times 1/2"$ ■) No 7789-5 (3/8" $\text{O} \times 1/2"$ ■)	No 409M (1/4" $\text{O} \times 3/8"$ ■) No 7787 (1/4" $\text{O} \times 3/4"$ ■) No 7788 (3/8" $\text{O} \times 3/4"$ ■) No 7789 (1/2" $\text{O} \times 3/4"$ ■) No 7789-4 (1/4" $\text{O} \times 1/2"$ ■) No 7789-5 (3/8" $\text{O} \times 1/2"$ ■)	No 409M (1/4" $\text{O} \times 3/8"$ ■) No 7787 (1/4" $\text{O} \times 3/4"$ ■) No 7788 (3/8" $\text{O} \times 3/4"$ ■) No 7789 (1/2" $\text{O} \times 3/4"$ ■) No 7789-4 (1/4" $\text{O} \times 1/2"$ ■) No 7789-5 (3/8" $\text{O} \times 1/2"$ ■)	No 409M (1/4" $\text{O} \times 3/8"$ ■) No 7787 (1/4" $\text{O} \times 3/4"$ ■) No 7788 (3/8" $\text{O} \times 3/4"$ ■) No 7789 (1/2" $\text{O} \times 3/4"$ ■) No 7789-4 (1/4" $\text{O} \times 1/2"$ ■) No 7789-5 (3/8" $\text{O} \times 1/2"$ ■)
Calibration square drive insert tools	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■) No 734K/12 (3/8" ■) No 734K/20 (1/2" ■) No 734K/40 (3/4" ■) No 734K/100 (3/4" ■)	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■) No 734K/12 (3/8" ■) No 734K/20 (1/2" ■) No 734K/40 (3/4" ■) No 734K/100 (3/4" ■)	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■) No 734K/12 (3/8" ■) No 734K/20 (1/2" ■) No 734K/40 (3/4" ■) No 734K/100 (3/4" ■)	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■) No 734K/12 (3/8" ■) No 734K/20 (1/2" ■) No 734K/40 (3/4" ■) No 734K/100 (3/4" ■)
Calibration software	TORKMASTER	TORKMASTER	TORKMASTER	TORKMASTER
DAkkS calibration certificates	3	4	3	4



7794-2 Motorised calibrating and adjusting tool from 1 to 400 N·m

The electronic perfectControl® calibrating unit with its electric drive considerably reduces the amount of effort and time required for calibration and adjustment tasks on torque wrenches

- measurement possible without moving the point of application of force
- prevents faulty readings thanks to precision-mounted spindle and finely regulated motor
- extremely accurate calibration thanks to optimised bearings and square drives for the transducers
- rapid, easy change of transducers thanks to quick-release latching system
- convenient pushbutton controls for clockwise and anticlockwise measurements with automatic speed compensation
- saves time because the bridge support is locked in place using a single-handed eccentric lever
- transmission of readings to a PC via USB interface for further processing, analysis and archiving
- a Declaration of Conformance or a calibration certificate can be printed or saved as a PDF file after calibration
- as found / as left calibrations can be documented
- during calibration, DIN EN ISO 6789:2003 in numerous languages is supported. Additional standards and works standards are available on request
- can be upgraded to perfectControl® calibrating unit No 7794-3 for angle-controlled wrenches
- **calibration up to 1000 N·m is possible using the easily attached extension unit No 7791-1 (see p. 168)**

- design patent
- protected by national and international patents
- both clicking and indicating torque wrenches can be calibrated
- calibration of transducers is possible using reference torque wrenches No 7770-10, 7770-100 and 7770-1000, available on request.
- the unit is supplied without the torque wrench, transducers or notebook
- **transducers laboratory No 7728 (see p. 174)**



product design award

2011

Content:

- 6 calibrating square drive insert tools No 734K (sizes 4, 5, 12, 20, 40, 100)
- 6 square drive adaptors (No 409M, No 7787, No 7788, No 7789, No 7789-4, No 7789-5)
- 1 USB adaptor No 7757-1
- 1 software Torkmaster 7731-1
- 1 jack cable No 7751
- 1 spiral cable No 7752
- 1 spiral cable No 7751-2 with jack plug and self-locking precision plug
- 1 low-temperature cable connector
- 1 hexagon key wrench No 10760CV size 2 mm are included

5



Code	Capacity N·m	for transducer	for torque wrenches with functional length (L _F) max. mm	Profile width mm	b mm	h mm	L mm	∅ kg
96521093	1-400	7728 (sizes 1-100)	815	180	640	328	1060	58.1



7794-1 Manual calibrating unit from 1 to 400 N·m

- as for perfectControl® No 7794-2, but the drive is via an ergonomically designed handwheel
- calibration up to 1000 N·m is possible using the easily attached extension unit No 7791-1 (see p. 168)**
- protected by national and international patents
- supplied without torque wrench, transducer or notebook
- transducers laboratory No 7728 (see p. 174)**

Content:

- 6 calibrating square drive insert tools No 734K (sizes 4, 5, 12, 20, 40, 100)
- 6 square drive adaptors (No 409M, No 7787, No 7788, No 7789, No 7789-4, No 7789-5)
- 1 USB adaptor No 7757-1
- 1 software Torkmaster 7731-1
- 1 jack cable No 7751
- 1 spiral cable No 7752
- 1 spiral cable No 7751-2 with jack plug and self-locking precision plug
- 1 low-temperature cable connector
- 1 hexagon key wrench No 10760CV 2 mm are included



Code	Capacity N·m	for transducer	for torque wrenches with functional length (L_F) max. mm	Profile width mm	b mm	h mm	L mm	\varnothing kg
9652 1092	1-400	7728 (sizes 1-100)	815	180	705	355	1060	47

7794-3 Automated calibrating and adjusting unit from 1 to 400 N·m

- automatically calibrates electronic torque and angle-controlled wrenches made by STAHLWILLE**
- design patent
- protected by national and international patents
- model is the same as perfectControl® No 7794-2, except it is additionally suited to calibrating angle-controlled wrenches. Optimum adaptation to working height with motorised height adjustment
- calibration up to 1000 N·m is possible using the easily attached expansion unit No 7791-1 (see p. 168) and set of adapter plates No 7791-4, Code 52110491
- supplied without torque wrench, transducer or notebook

Content:

- 6 calibrating square drive insert tools No 734K (sizes 4, 5, 12, 20, 40, 100)
- 6 square drive adaptors (No 409M, No 7787, No 7788, No 7789, No 7789-4, No 7789-5)
- 1 USB adaptor No 7757-1
- 1 software Torkmaster 7731-1
- 1 jack cable No 7751
- 1 spiral cable No 7752
- 1 spiral cable No 7751-2 with jack plug and self-locking precision plug
- 1 low-temperature cable connector
- 1 hexagon key wrench No 10760CV 2 mm are included



Code	Capacity N·m	for transducer	for torque wrenches with functional length (L_F) max. mm	Profile width mm	b mm	h mm	L mm	\varnothing kg
9652 1094	1-400	7728 (sizes 1-100)	815	180	640	884-1134	1060	230

Torque testers

7728

Transducers laboratory



- patented
- for laboratory environments
- with optimised measuring range
- for calibrating torque wrenches and torque screwdrivers
- for use together with perfectControl® calibrating unit No 7794 or calibration system No 7706
- high degree of accuracy thanks to conversion and digitization of readings within the transducer itself
- with high-grade self-locking precision plug
- not susceptible to lateral forces due to low-profile construction
- with DAkkS calibration certificate
- **max. display deviation value ± 0.5% of the reading**
- further details on request
- supplied in sturdy plastic box



Measuring ranges by deviation of indication

Code	size	Display deviation value ± 0.5% of the reading			Display deviation value ± 0.25% of the reading			∅ mm	∅ "	∆∅ g	∆∅ g with box
		N-m	in-lb	ft-lb	N-m	ft-lb	in-lb				
96 52 40 11	1S ¹⁾	1-10	8,9-88,5	0,74-7,4	2-10	1,5-7,4	18-88,5	120	1/4	1735	2415
96 52 40 01	1	1-10	8,9-88,5	0,74-7,4	2-10	1,5-7,4	18-88,5	120	1/4	1735	2415
96 52 40 02	2	2-20	18-177	1,5-15	4-20	3-15	35-177	120	1/4	1735	2415
96 52 40 04	4	4-40	35-354	3-30	8-40	6-30	71-354	120	3/8	2486	3136
96 52 40 06	6	6-60	53-531	4,5-45	12-60	9-45	106-531	120	3/8	2486	3136
96 52 40 10	10	10-100	89-885	7-74	20-100	14-74	177-885	120	3/8	2486	3136
96 52 40 20	20	20-200	177-1770	15-148	40-200	30-148	354-1770	120	1/2	2983	3170
96 52 40 40	40	40-400	354-3540	30-295	80-400	60-295	708-3540	156	3/4	4846	5507
96 52 40 65	65	65-650	575-5753	48-479	130-650	96-479	1151-5753	156	3/4	4846	5507
96 52 40 80	80	80-800	708-7081	59-590	160-800	118-590	1416-7081	156	3/4	4846	5507
96 52 41 00	100	100-1000	885-8851	74-738	200-1000	148-738	1770-8851	156	3/4	4846	5507
96 52 43 00	300 ²⁾	300-3000	2655-26553	221-2214	600-3000	443-2214	5310-26553	195	1 1/2	10500	12000

¹⁾ for calibrating torque screwdrivers

²⁾ for use with mechanical loader No 7792 and 7792-1 (S. 243)

5

TORKMASTER.

Simple, professional calibration.

Need to adjust torque wrenches and torque screwdrivers and calibrate them in compliance with the standards, generate Declarations of Conformance and calibration certificates to DIN EN ISO 6789? This is exactly what the STAHLWILLE TORKMASTER software is for. At the highest standard of safety and with minimum effort for the user.

The **optional CAQ interface** enables connection to the superordinate CAQ system, which in this way has access to all inspection data at all times. The user is not required to do anything - all the data and logs of the calibration process are securely transmitted.



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Accessories for workshop torque tester and calibration systems

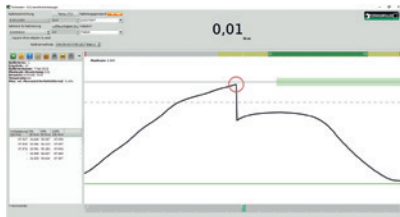
7759-4 USB adaptor, jack cable and software Torkmaster

Link between perfectControl® or transducer (7721-7724) and PC. For adjusting and calibrating torque wrenches and torque screwdrivers. Produces calibration certificates in accordance with DIN EN ISO 6789, which can be printed out or saved as PDF files.

- as found / as left calibrations can be documented
- graphical representation of the torque progression
- user management
- 17 languages
- equipment testing system

System requirements:

- PC
- Microsoft Windows XP SP3 or later operating system
- USB connection



Code	L m	Δ∇ g
96 58 36 29	1.5	65

7759-6 USB adaptor, cable and software Torkmaster

NEW

Link between perfectControl® or transducer (7728) and PC. For adjusting and calibrating torque wrenches and torque screwdrivers. Produces calibration certificates in accordance with DIN EN ISO 6789, which can be printed out or saved as PDF files.

- as found / as left calibrations can be documented
- graphical representation of the torque progression
- user management
- 17 languages
- equipment testing system

System requirements:

- PC
- Microsoft Windows XP SP3 or later operating system
- USB connection



Code	L m	Δ∇ g
96 58 36 31	1.5	72

7751 Jack cable

- connection between transducers 7721-7724 and USB adaptor or display unit
- with jacks at both ends, 90° angled



Code	L m	Δ∇ g
52 11 00 51	1.5	50

7751-1 Cable for No 7728

- for connecting laboratory transducers 7728 to a USB hub or display unit
- with jack plug, 90° angled, and self-locking precision plug



Code	L m	Δ∇ g
52 11 00 54	1.5	38

7752 Spiral cable

- connection between transducer and display unit or USB adaptor
- with jacks at both ends, 90° angled



Code	L max. mm	Δ∇ g
52 11 00 52	500	35

7751-2 Spiral cable for No 7728

- for connecting laboratory transducers 7728 to a USB hub or display unit
- with jack plug, 90° angled, and self-locking precision plug



Code	L max. mm	Δ∇ g
52 11 00 57	500	32

Torque testers

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	⚠	g
52 1000 50		182

7760 Mains adaptor

- Input: 110 V-230 V AC
- Output: 9 V DC, with interchangeable socket adaptors



Code	⚠	g
52 1100 56		201

7761 Interface adaptor

- required for automated calibration and adjustment of angle-controlled torque wrenches No 714 using calibrating and adjusting units perfectControl® No 7794-2 and 7794-3



Code	⚠	g
52 1100 61		26

7761/3 Interface adaptor set

- Contents:
- No 7761 interface adaptor
 - No 7752 spiral cable
 - No 7760 mains adaptor



Code	⚠	g
96 52 11 61		255

7311/7312 Plastic box, empty

- for safe storage and transport of transducers (please order inlays separately)



Code	No	for transducer	⚠	g
81 5000 03	7311	7721; 7722; 7723; 7728 1-20		554
81 5000 04	7312	7724-1; 7728 40-100		1346

7313/7314 Inlays for plastic box

Code	No	for transducer	⚠	g
8307 10 30	7313	7721; 7722; 7723; 7728 1-20		77
8307 10 31	7314	7724-1; 7728 40-100		242

409M Adaptor

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



code	L mm	∅ mm	⚠	g
110300 10	13	28		14

7787 Square drive adaptor

- 1/4" socket x 3/4" plug (6.3 x 20)



Code	L mm	∅ mm	⚠	g
5852 10 87	15.5	29		41

7788 Square drive adaptor

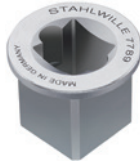
- 3/8" socket x 3/4" plug (10 x 20)



Code	L mm	∅ mm	⚠	g
5852 10 88	23.5	29		50

7789 Square drive adaptor

- 1/2" socket x 3/4" plug (12.5 x 20)



Code	L mm	∅ mm	Δ∇ g
58 52 1089	23.5	29	40

7789-2 Square drive adaptor

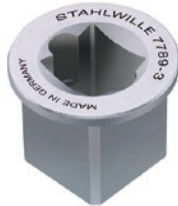
- 3/4" socket x 1 1/2" plug (20 x 40)



Code	L mm	∅ mm	Δ∇ g
58 52 3089	44	60	380

7789-3 Square drive adaptor

- 1" socket x 1 1/2" plug (25 x 40)



Code	L mm	∅ mm	Δ∇ g
58 52 4089	44	60	280

7789-4 Square drive adaptor

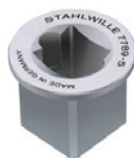
- 1/4" socket x 1/2" plug (6.3 x 12.5)



Code	L mm	∅ mm	Δ∇ g
58 52 4090	15.5	29	25

7789-5 Square drive adaptor

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



Code	L mm	∅ mm	Δ∇ g
58 52 4091	15.5	29	28

734K Calibrating square drive insert tools

- without a ball or pin (so not suitable for bolt tightening)
- optimum measuring results during calibration thanks to reduced lateral forces



Code	size	"	mm	b mm	h mm	S mm	Δ∇ g
58 24 3004	4	1/4	9x12	20	16.7	17.5	76
58 24 3005	5	3/8	9x12	20	16.7	17.5	76
58 24 3012	12	3/8	14x18	27	21.5	25	199
58 24 3020	20	1/2	14x18	27	21.5	25	218
58 24 3040	40	3/4	14x18	40	29.3	25	410
58 24 1100	100	3/4	22x28	43	29.3	55	907

70VK Calibrating square drive units

- without a ball or pin (so not suitable for bolt tightening)
- optimum measuring results during calibration thanks to reduced lateral forces



Code	size	for No	a "	b "	L mm	Δ∇ g
5901 1014	11	734/4	3/8	1/4	24.7	12
5901 1003	3	735/5	3/8	3/8	27.6	17
5901 1012	12	734/10; 734/20	1/2	3/8	32.5	34
5901 1011	502	1/2 734/20	1/2	1/2	36.9	60
5901 1008	8	734/40; 734/80; 734/100	3/4	3/4	52.2	138



6 SCREWDRIVERS

DRALL⁺
>> Page 182



3K DRALL[®]
>> Page 187



Electronics screwdrivers
>> Page 188



T-handled screwdrivers
>> Page 189



Offset screwdrivers
>> Page 189



Impressive diversity. DRALL⁺ screwdrivers.



Made in
Germany

For professionals who constantly face new challenges in their daily work: the DRALL⁺ screwdriver series with the 2-component cushioned handle. DRALL⁺ screwdrivers are a byword for long dependability, functional integrity and comfortable handling, which makes light work of any task.

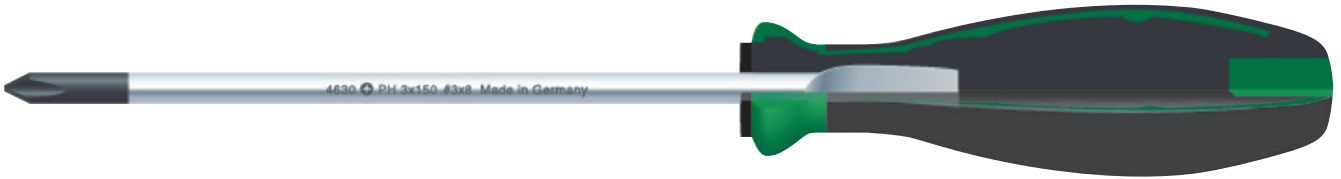
SAFE.

The flange-like hand stop **1** prevents injuries caused by unintentional slipping - and also stops the tool rolling away.

FAST.

The lower end of the handle (multifunction zone **2**) is deliberately made extra-long. This enables the thumb and index finger to wrap around more easily and spin the screwdriver.





CONVENIENT.

Convenient marking on the head makes it easy to pick the right profile quickly.



EXTREME.

For use under extreme conditions, the DRALL+ is also available with a metal impact cap.

PRACTICAL.

The black handle component made of soft, elastic thermoplastic elastomer (TPE) and the special shape of the handle means DRALL+ screwdrivers fit particularly snugly in the hand.

ROBUST.

The core is made of high-grade knock-resistant polypropylene (PP). The tang is firmly anchored in the core to allow force to be transferred through it.



INDIVIDUAL.

The four handle sizes for the screwdrivers are designed specifically to match the drive profiles.

DRALL+ is available for the following screw-head profiles

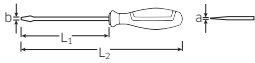
	Slotted
	PH cross-head
	PZ cross-head
	TORX®
	TORX® Tamper Resistant with a central bore
	Hexagonal
	TORQ-SET®

Screwdrivers

4620

⊖ Screwdrivers for slotted screws DRALL⁺

- DIN ISO 2380-1, -2, DIN 5264, ISO 2380-1, -2
- Chrome Alloy Steel, chrome plated
- black tips



Code	size	a mm	b mm	L ₁ mm	L ₂ mm	⚖ g	
46 20 30 35	1	0.6	3.5	75	160	25	10
46 20 30 40	2	0.8	4.0	100	185	34	10
46 20 30 55	3	1.0	5.5	125	240	79	10
46 20 30 65	4	1.2	6.5	150	265	109	10
46 20 30 80	5	1.6	8.0	175	300	136	10
46 20 31 00	6	1.6	10.0	200	325	163	5
46 20 31 20	7	2.0	12.0	250	375	215	5

4621

⊖ Screwdrivers for slotted screws 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	⚖ g	
46 21 30 25	0	0.4	2.5	80	165	27	10
46 21 30 35	1	0.5	3.5	90	175	26	10
46 21 30 40	2	0.6	4.0	100	185	34	10
46 21 30 55	3	0.8	5.5	120	235	78	10
46 21 30 65	4	1.0	6.5	140	255	96	10
46 21 30 80	5	1.2	8.0	160	275	117	10
46 21 31 00	6	1.6	10.0	180	305	174	10

4622

⊖ Screwdrivers for slotted screws DRALL⁺

- DIN ISO 2380-1, -2, DIN 5264, ISO 2380-1, -2
- with hexagon
- Chrome Alloy Steel, chrome plated
- black tips



Code	size	a mm	b mm	L ₁ mm	L ₂ mm	⚖ g	
46 22 30 55	1	1.0	5.5	100	215	85	10
46 22 30 65	2	1.2	6.5	125	240	100	10
46 22 30 80	3	1.2	8.0	150	275	159	10
46 22 31 00	4	1.6	10.0	175	300	174	10
46 22 31 20	5	2.0	12.0	200	325	240	5
46 22 31 40	6	2.5	14.0	250	375	310	5

4622SK

⊖ Screwdrivers for slotted screws DRALL⁺

- DIN ISO 2380-1, -2, DIN 5264, ISO 2380-1, -2
- with impact cap and hexagonal shank
- Chrome Alloy Steel, chrome plated
- black tips



Code	size	a mm	b mm	L ₁ mm	L ₂ mm	⚖ g	
46 22 32 40	1	0.8	4.0	90	195	50	10
46 22 32 55	2	1.0	5.5	100	215	106	10
46 22 32 65	3	1.2	6.5	125	240	135	5
46 22 32 80	4	1.2	8.0	150	275	191	5
46 22 32 00	5	1.6	10.0	175	300	226	5
46 22 32 20	6	2.0	12.0	200	325	267	5
46 22 33 40	7	2.5	14.0	250	375	340	5

4724

⊖ Carburettor screwdrivers DRALL

- DIN ISO 2380-1, -2, DIN 5264, ISO 2380-1, -2
- stubby
- Chrome Alloy Steel, chrome plated
- black tips

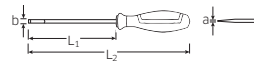


Code	size	a mm	b mm	L ₁ mm	L ₂ mm	⚖ g	
47 24 10 45	1	0.6	3.5	25	80	34	10
47 24 10 60	2	1.0	5.5	25	80	32	10
47 24 10 80	3	1.2	8.0	25	80	39	10

4628

⊖ Electricians screwdrivers for slotted screws DRALL⁺

- DIN ISO 2380-1, -2, DIN 5264, ISO 2380-1, -2
- Chrome Alloy Steel, chrome plated
- black tips



Code	size	a mm	b mm	L ₁ mm	L ₂ mm	⚖ g	
46 28 30 25	1	0.4	2.5	60	145	20	10
46 28 30 35	2	0.6	3.5	75	160	40	10
46 28 31 35	3	0.6	3.5	100	185	41	10
46 28 30 40	4	0.8	4.0	125	210	36	10
46 28 30 55	5	1.0	5.5	150	265	92	10
46 28 31 55	6	1.0	5.5	200	315	102	10

4630

⊕ Cross-head screwdrivers DRALL⁺

- Phillips-Recess®
- DIN ISO 8764-1, -2, ISO 8764-1, -2
- Chrome Alloy Steel, chrome plated
- black tips



Code	PH size	L ₁ mm	L ₂ mm	⚖ g	
46 30 30 00	0	60	145	20	10
46 30 30 01	1	80	185	35	10
46 30 30 02	2	100	215	90	10
46 30 30 03	3	150	275	146	10

4631 Cross-head screwdrivers DRALL⁺

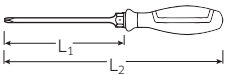
- Phillips-Recess[®]
- extra long
- DIN ISO 8764-1, -2, ISO 8764-1, -2
- Chrome Alloy Steel, chrome plated
- black tips



Code	PH size	L ₁ mm	L ₂ mm	⚖ g	
46 31 3001	1	250	355	110	1
46 31 3002	2	250	365	122	1

4632 Cross-head screwdrivers DRALL⁺

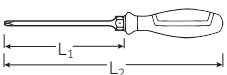
- with hexagon
- Phillips-Recess[®]
- DIN ISO 8764-1, -2, ISO 8764-1, -2
- Chrome Alloy Steel, chrome plated
- black tips



Code	PH size	L ₁ mm	L ₂ mm	⚖ g	
46 32 3001	1	80	185	45	10
46 32 3002	2	100	215	100	10
46 32 3003	3	150	275	170	5
46 32 3004	4	200	325	237	5

4632SK Cross-head screwdrivers DRALL⁺

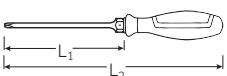
- with impact cap and hexagonal shank
- Phillips-Recess[®]
- DIN ISO 8764-1, -2, ISO 8764-1, -2
- Chrome Alloy Steel, chrome plated
- black tips



Code	PH size	L ₁ mm	L ₂ mm	⚖ g	
46 32 3101	1	85	190	58	10
46 32 3102	2	100	215	120	10
46 32 3103	3	150	275	194	5

4640 Cross-head screwdrivers DRALL⁺

- POZIDRIV/SUPADRIV[®]
- DIN ISO 8764-1, -2, ISO 8764-1, -2
- Chrome Alloy Steel, chrome plated
- black tips



Code	PZ size	L ₁ mm	L ₂ mm	⚖ g	
46 40 3000	0	60	145	35	10
46 40 3001	1	80	185	44	10
46 40 3002	2	100	215	89	10
46 40 3003	3	150	275	145	5

4636 TORQ-SET[®] screwdrivers DRALL⁺

- TORQ-SET[®]
- hexagonal blade
- chrome plated
- black tips



Code	mm/"	L ₁ mm	L ₂ mm	"	⚖ g	
46 36 3002	2	100	215	1/4	92	5
46 36 3004	4	100	215	1/4	93	5
46 36 3006	6	100	215	1/4	92	5
46 36 3008	8	100	215	1/4	93	5
46 36 3010	10	100	215	1/4	93	5
46 36 3016	1/4	150	265	5/16	138	5

4650 TORX[®] screwdrivers DRALL⁺

- for inside TORX[®] screws
- Chrome Alloy Steel, chrome plated
- black tips



Code	size	mm	L ₁ mm	L ₂ mm	⚖ g	
46 50 3005	T5	1.4	60	145	30	5
46 50 3006	T6	1.6	60	145	35	5
46 50 3007	T7	2.0	60	145	35	5
46 50 3008	T8	2.3	60	145	33	5
46 50 3009	T9	2.5	60	145	35	5
46 50 3010	T10	2.7	80	165	35	5
46 50 3015	T15	3.3	80	165	38	5
46 50 3020	T20	3.8	100	205	50	5
46 50 3025	T25	4.4	100	205	50	5
46 50 3027	T27	5.0	115	230	90	5
46 50 3030	T30	5.5	115	230	90	5
46 50 3040	T40	6.6	115	240	131	5
46 50 3045	T45	7.8	130	255	136	5

4650L TORX[®] screwdrivers DRALL⁺

- for inside TORX[®] screws
- extra long
- Chrome Alloy Steel, chrome plated
- black tips

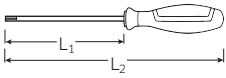


Code	size	mm	L ₁ mm	L ₂ mm	⚖ g	
46 50 3115	T15	3.3	250	335	45	5
46 50 3120	T20	3.8	250	355	180	5
46 50 3125	T25	4.4	250	355	180	5
46 50 3130	T30	5.5	250	365	125	5

Screwdrivers

4656 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	
46563008	T8	2.3	60	145	35	5
46563009	T9	2.5	60	145	35	5
46563010	T10	2.7	80	165	39	5
46563015	T15	3.3	80	165	39	5
46563020	T20	3.8	100	205	42	5
46563025	T25	4.4	100	205	50	5
46563027	T27	5.0	115	230	90	5
46563030	T30	5.5	115	230	90	5
46563040	T40	6.6	115	240	120	5
46563045	T45	7.8	130	255	118	5

4734 Cross-head screwdrivers DRALL

- Phillips-Recess®
- DIN ISO 8764-1, -2, ISO 8764-1, -2
- stubby
- Chrome Alloy Steel, chrome plated
- black tips



Code	PH size	L ₁ mm	L ₂ mm	g	
47341001	1	25	80	27	10
47341002	2	25	80	31	10

4744 Cross-head screwdrivers DRALL

- POZIDRIV/SUPADRIV®
- DIN ISO 8764-1, -2, ISO 8764-1, -2
- stubby
- Chrome Alloy Steel, chrome plated
- black tips

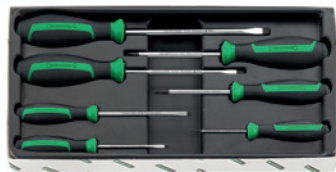


Code	PZ size	L ₁ mm	L ₂ mm	g	
47441001	1	25	80	28	10
47441002	2	25	80	34	10

4691/7 DRALL+ set of screwdrivers

Set of 7 DRALL+ screwdrivers content:

- 4620:
 - size 1 (0.6 x 3.5 x 75 mm)
 - size 2 (0.8 x 4.0 x 100 mm)
 - size 3 (1.0 x 5.5 x 125 mm)
 - size 4 (1.2 x 6.5 x 150 mm)
- 4628: size 1 (0.4 x 2.5 x 60 mm)
- 4630: PH1; PH2



Code	g	
96469115	580	1

4692/8 DRALL+ set of screwdrivers

Set of 8 DRALL+ screwdrivers Content:

- 4620:
 - size 1 (0.6 x 3.5 x 75 mm)
 - size 2 (0.8 x 4.0 x 100 mm)
 - size 3 (1.0 x 5.5 x 125 mm)
 - size 4 (1.2 x 6.5 x 150 mm)
 - size 5 (1.6 x 8.0 x 175 mm)
- 4630: PH1; PH2; PH3



Code	g	
96469215	840	1

4693/9 DRALL+ set of screwdrivers

Set of 9 DRALL+ screwdrivers Content:

- 4622:
 - size 1 (1.0 x 5.5 x 100 mm)
 - size 2 (1.2 x 6.5 x 125 mm)
 - size 3 (1.2 x 8.0 x 150 mm)
 - size 4 (1.6 x 10.0 x 175 mm)
- 4628: size 1 (0.4 x 2.5 x 60 mm)
- 4632: PH1; PH2
- 4724: size 2 (1.0 x 5.5 x 25 mm)
- 4734: PH2



Code	g	
96469315	950	1

4696/6 DRALL+ set of screwdrivers

Set of 6 DRALL+ screwdrivers with an impact cap Content:

- 4622SK:
 - size 1 (0.8 x 4.0 x 90 mm)
 - size 2 (1.0 x 5.5 x 100 mm)
 - size 3 (1.2 x 6.5 x 125 mm)
 - size 4 (1.2 x 8.0 x 150 mm)
- 4632SK: PH1; PH2



Code	g	
96469615	870	1

4697/8 DRALL+ set of screwdrivers

Set of 8 DRALL+ screwdrivers Content:

- 4620:
 - size 1 (0.6 x 3.5 x 75 mm)
 - size 2 (0.8 x 4.0 x 100 mm)
- 4622:
 - size 1 (1.0 x 5.5 x 100 mm)
 - size 2 (1.2 x 6.5 x 125 mm)
 - size 3 (1.2 x 8.0 x 150 mm)
- 4732: PH1; PH2; PH3



Code	g	
96469715	930	1

4694/9 DRALL+ set of TORX® screwdrivers

Set of 9 DRALL+ screwdrivers for TORX® screws Content:

- 4650: T8, T9, T10, T15, T20, T25, T27, T30, T40



Code	g	
96469415	730	1

4699/9

DRALL⁺ set of TORX[®] screwdrivers

Set of 9 **DRALL⁺** screwdrivers for TORX[®] screws (TORX[®] TAMPER RESISTANT).

Content:
 ● 4656: T8, T9, T10, T15, T20, T25, T27, T30, T40 (with hollow point)



Code	g	
96 46 99 15	740	1

TCS 4620/4630



TCS

- 175 x 350 x 35 mm
- 7 pieces



Code	g
96 83 82 78	590

No	Content
4620	size 1 (0.6 x 3.5 x 75 mm) size 2 (0.8 x 4.0 x 100 mm) size 3 (1.0 x 5.5 x 125 mm) size 4 (1.2 x 6.5 x 150 mm)
4630	PH1; PH2; PH3

TCS 4620/4640



TCS

- 175 x 350 x 40 mm
- 7 pieces



Code	g
96 83 87 84	410

No	Content
4620	size 1 (0.6 x 3.5 x 75 mm) size 2 (0.8 x 4.0 x 100 mm) size 3 (1.0 x 5.5 x 125 mm) size 4 (1.2 x 6.5 x 150 mm)
4640	PZ1; PZ2; PZ3

TCS 4622/4632



TCS

- 175 x 350 x 35 mm
- 6 pieces



Code	g
96 83 87 83	845

No	Content
4622	size 1 (1.0 x 5.5 x 100 mm) size 2 (1.2 x 6.5 x 125 mm) size 3 (1.2 x 8.0 x 150 mm) size 4 (1.6 x 10.0 x 175 mm)
4632	PH2; PH3

TCS 4620-4734/8



TCS

- 175 x 350 x 40 mm
- 8 pieces



Code	g
96 83 87 69	503

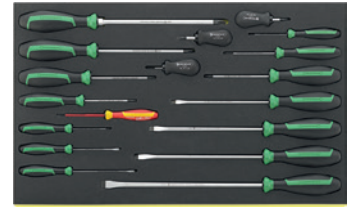
No	Content
4620	size 1 (0.6 x 3.5 x 75 mm) size 3 (1.0 x 5.5 x 125 mm) size 4 (1.2 x 6.5 x 150 mm)
4628	size 1 (0.4 x 2.5 x 60 mm)
4630	PH1; PH2
4724	size 2 (1.0 x 5.5 x 25 mm)
4734	PH2

TCS 4620/4660VDE



TCS

- 530 x 350 x 40 mm
- 18 pieces



Code	g
96 83 11 79	1689

No	Content
4620	size 1 (0.6 x 3.5 x 75 mm) size 2 (0.8 x 4.0 x 100 mm) size 4 (1.2 x 6.5 x 150 mm) size 5 (1.6 x 8.0 x 175 mm) size 6 (1.6 x 10.0 x 200 mm) size 7 (2.0 x 12.0 x 200 mm)
4628	size 1 (0.4 x 2.5 x 60 mm)
4630	PH1; PH2; PH3
4632	PH4
4640	PZ0; PZ1; PZ2
4660 VDE	size 1 (0.4 x 2.5 x 75 mm)
4724	size 2 (1.0 x 5.5 x 25 mm)
4734	PH2
4744	PZ1

TCS 4650



TCS

- 175 x 350 x 35 mm
- 8 pieces



Code	g
96 83 87 67	340

No	Content
4650	sizes T8; T9; T10; T15; T20; T25; T27; T30

It's all in the handle. 3K DRALL® screwdrivers.



High-grade materials and ergonomic design that redefines standards: STAHLWILLE's 3K DRALL® screwdrivers unite these positive qualities in a manner which is close to perfect. The result is a long-life, ergonomically designed tool providing strain-free working combined with maximum force transmission - even with greasy hands.



RESILIENT.

3K DRALL® grips consist of 3 components: a highly resistant core made of polypropylene (PP **1**), a soft insert made of skin-friendly thermoplastic elastomer **2** and two special fibre-coated surfaces **3** for a significant improvement in power transmission and occupational safety.



SAFE.

The blades are made of exceptionally fine industrial-grade chrome alloy steel, through-hardened and anchored in the grip in such a way that they stay there.



ROBUST.

Whether you use the straight-bladed or Phillips/Pozidriv type - the cross-hatched blade tips will accurately and safely transmit maximum force to the screw head.

VERSATILE.

The lever hole allows even more power and torque if necessary.



CONVENIENT.

The screwdrivers are available in a set - either conveniently housed in plastic inlays or TCS safety inlays, designed for use with STAHLWILLE Tool Trolleys and Tool Boxes.

4820 3K DRALL® screwdrivers for slotted screws

- DIN 5265, ISO 2380
- Chrome Alloy Steel, matt chrome plated
- black tips



Code	a mm	b mm	L ₁ mm	L ₂ mm	Δ g	☐
48 20 1035	0.6	3.5	75	170	63	10
48 20 1040	0.8	4.0	100	195	32	10
48 20 2055	1.0	5.5	125	220	58	10
48 20 1065	1.2	6.5	150	265	100	10
48 20 1080	1.6	8.0	175	290	120	10
48 20 1100	1.6	10.0	200	315	158	5
48 20 2100	2.0	12.0	250	375	218	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	Δ g	☐
48 30 1000	0	60	155	28	10
48 30 1001	1	80	175	50	10
48 30 1002	2	100	215	70	10
48 30 1003	3	150	275	126	5
48 30 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	Δ g	☐
48 40 1001	1	80	175	33	10
48 40 1002	2	100	215	70	10

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	Δ g	☐
48 56 0006	T6 *	1.6	50	145	45	5
48 56 0007	T7	2.0	50	145	37	5
48 56 0008	T8	2.3	60	155	39	5
48 56 0009	T9	2.5	60	155	50	5
48 56 0010	T10	2.7	80	175	26	5
48 56 0015	T15	3.3	80	175	52	5
48 56 0020	T20	3.8	100	215	32	5
48 56 0025	T25	4.4	100	215	55	5
48 56 0027	T27	5.0	115	230	58	5
48 56 0030	T30	5.5	115	230	63	5
48 56 0040	T40	6.6	115	240	86	5

* without hollow point

4891 3K DRALL® set of screwdrivers

- Set of 6 3K DRALL® screwdrivers
Content:
- ⊖ 4820: 0.6 x 3.5 x 75 mm
 - 0.8 x 4.0 x 100 mm
 - 1.0 x 5.5 x 125 mm
 - 1.2 x 6.5 x 150 mm
 - ⊕ 4830: PH1; PH2



Code	Δ g	☐
96 48 91 10	530	1

4892 3K DRALL® set of screwdrivers

- Set of 8 3K DRALL® screwdrivers
Content:
- ⊖ 4820: 0.6 x 3.5 x 75 mm
 - 0.8 x 4.0 x 100 mm
 - 1.0 x 5.5 x 125 mm
 - 1.2 x 6.5 x 150 mm
 - 1.6 x 8.0 x 175 mm
 - ⊕ 4830: PH1; PH2; PH3



Code	Δ g	☐
96 48 92 10	745	1

4899 3K DRALL® set of TORX® screwdrivers

- Set of 9 3K DRALL® screwdrivers for TORX® screws (TORX® TAMPER RESISTANT).
Content:
- ⊕ 4856: T8; T9; T10; T15; T20; T25; T27; T30; T40 (with hollow point)



Code	Δ g	☐
96 48 99 10	513	1

TCS 4820/4830

- 175 x 350 x 35 mm
- 7 pieces

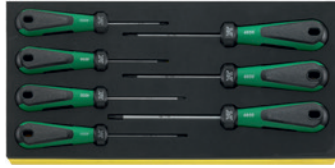


Code	Δ g
96 83 81 84	555

No	Content
4820	size 0.6 x 3.5 x 75 mm size 0.8 x 4.0 x 100 mm size 1.0 x 5.5 x 125 mm size 1.2 x 6.5 x 150 mm
4830	PH1; PH2; PH3

Screwdrivers

TCS 4856



- 175 x 350 x 40 mm
- 7 pieces

Code	Δ	g
96838755		447

No	Content
4856	sizes T8; T9; T10; T15; T20; T25; T30

4797

Set of electronic screwdrivers

- bag made of extremely tough textile
- Content 7 pieces:
 - ⊖ 4751: size 4 (0.3 x 1.5 x 40 mm); size 6 (0.4 x 2.0 x 60 mm); size 7 (0.4 x 2.5 x 75 mm); size 8 (0.5 x 3.0 x 75 mm)
 - ⊕ 4752: PH00, PH0, PH1



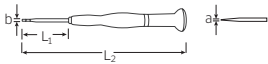
Code	Δ	g	
96479715		234	1

Electronics screwdrivers

4751

⊖ Screwdrivers for slotted screws

- DIN ISO 8764



Code	size	a mm	b mm	L ₁ mm	L ₂ mm	Δ g	
47513001	1	0.16	0.8	40	140	12	5
47513002	2	0.18	1.0	40	140	12	5
47513003	3	0.25	1.2	40	140	12	5
47513004	4	0.3	1.5	40	140	12	5
47513005	5	0.3	1.8	60	160	12	5
47513006	6	0.4	2.0	60	160	12	5
47513007	7	0.4	2.5	75	175	12	5
47513008	8	0.5	3.0	75	175	14	5

4752

⊕ Cross-head screwdrivers

- Phillips-Recess®
- DIN ISO 2380



Code	PH size	L ₁ mm	L ₂ mm	⊕ M	americ. No	∅ mm	Δ g	
47523010	00	40	140	-	-	2.5	12	5
47523020	0	60	160	-2	0-1	3	14	5
47523001	1	80	180	2-3	2-4	4.5	24	5

4753

● Hexagon socket screwdrivers



Code	∅ mm/"	L ₁ mm	L ₂ mm	Δ g	
47533007	0.7 / 0.028	40	140	12	5
47533009	0.9 / 0.035	40	140	12	5
47533013	1.3 / 0.050	40	140	12	5
47533015	1.5	50	150	12	5

10769

● TORX®-screwdrivers

- T-handled
- for inside TORX® screws
- Chrome Vanadium, matt chrome plated
- black tips



Code	size	∅ mm	L ₁ mm	L ₂ mm	Δ g	
43290008	T8	2.3	80	96	12	5
43290009	T9	2.5	80	96	13	5
43290010	T10	2.7	100	116	14	5
43290015	T15	3.3	100	116	16	10
43290020	T20	3.8	100	125	36	10
43290025	T25	4.4	110	135	41	10
43290027	T27	5	110	135	49	10
43290030	T30	5.5	130	155	59	10
43290040	T40	6.6	130	165	102	10
43290045	T45	7.8	130	165	119	10
43290050	T50	8.8	130	165	137	5

ES 10769/7



- 175 x 350 x 35 mm
- 7 pieces



Code	g
96838120	450

No	Content
10769	sizes T10; T15; T20; T25; T27; T30; T40

ES 10769B/7



- 175 x 350 x 35 mm
- 7 pieces



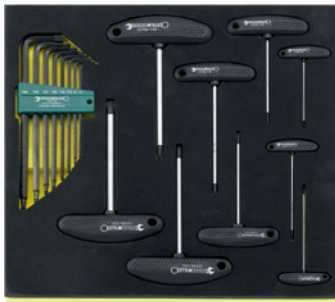
Code	g
96838129	420

No	Content
10769B	sizes T10; T15; T20; T25; T27; T30; T40

TCS 10769+10771/17



TCS



- 350 x 350 x 30 mm
- 17 pieces

Code	g
96832099	940

No	Content
10769	sizes T9; T10; T15; T20; T25; T30; T40; T45; T50
10771/8	sizes T9; T10; T15; T20; T25; T27; T30; T40

10769B

TORX® screwdrivers with hollow point

- with hollow point (TORX® TAMPER RESISTANT)
- shaft nickel-plated and chrome plated
- tips hardened
- Chrome Vanadium, matt chrome plated
- black tips

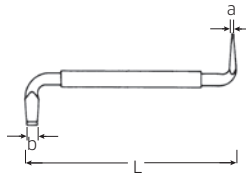


Code	size	mm	L ₁ mm	L ₂ mm	g	
43300010	T10	2.7	100	116	14	5
43300015	T15	3.3	100	116	16	5
43300020	T20	3.8	100	125	36	5
43300025	T25	4.4	110	135	41	5
43300027	T27	5.0	110	135	49	5
43300030	T30	5.5	130	155	59	5
43300040	T40	6.6	130	165	102	5

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	g	
73272001	1	0.6	3.5	90	9	10
73272002	2	0.8	4	100	12	10
73272003	3	1	5.5	125	29	10
73272004	4	1.2	8	150	69	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	g	
73282012	1 x 2	125	29	10
73282023	2 x 3	150	73	10

Screwdrivers

10760aCV Hexagon key wrenches

- for socket head screws
- Chrome Vanadium, nickel-plated (sizes 0.028; 0.035; 0.050", gunmetal finish)



Code	Size "	L ₁ mm	L ₂ mm	Weight g	Box
43 15 00 70	0.028	8	32	1	10
43 15 00 90	0.035	10	32	1	10
43 15 01 30	0.050	12	40	1	10
43 55 00 03	3/64	14	45	1	10
43 55 00 04	1/16	15	45	1	10
43 55 00 05	5/64	16	50	2	10
43 55 00 06	3/32	17	51	3	10
43 55 00 07	7/64	20	54	4	10
43 55 00 08	1/8	22	57	5	10
43 55 00 09	9/64	23	63	7	10
43 55 00 10	5/32	25	65	10	10
43 55 00 12	3/16	29	70	15	10
43 55 00 14	7/32	32	80	23	10
43 55 00 16	1/4	32	87	32	10
43 55 00 18	9/32	35	95	45	10
43 55 00 20	5/16	40	98	59	10
43 55 00 22	11/32	41	105	75	10
43 55 00 24	3/8	45	110	95	10
43 55 00 28	7/16	48	124	143	10
43 55 00 32	1/2	50	133	201	5
43 55 00 34	9/16	57	152	292	5
43 55 00 36	5/8	59	160	380	5
43 55 00 40	3/4	70	180	605	5
43 55 00 44	7/8	80	200	945	1

10760aCV Hexagon key wrenches

- DIN ISO 2936 (metric)
- for socket head screws
- Chrome Vanadium, nickel-plated



Code	No	Weight g	Box
96 43 55 04	10760aCV/10T ¹⁾	286	1
96 43 55 02	10760aCV/13 ²⁾	126	1

¹⁾ Content: 1/16; 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4; 5/16; 3/8" (in textile bag)
²⁾ 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"

10766 Key wrenches

- for inside TORX® screws
- Chrome Vanadium, chrome plated



Code	size	Tip mm	L ₁ mm	L ₂ mm	Weight g	Box
43 22 00 08	T8	2.3	16	44	3	10
43 22 00 09	T9	2.5	16	48	3	10
43 22 00 10	T10	2.7	17	51	3	10
43 22 00 15	T15	3.3	18	54	5	10
43 22 00 20	T20	3.8	19	57	7	10
43 22 00 25	T25	4.4	20	60	9	10
43 22 00 27	T27	5.0	21	64	15	10
43 22 00 30	T30	5.5	24	70	20	10
43 22 00 40	T40	6.6	26	76	29	10

10766 Key wrenches

- for inside TORX® screws
- Chrome Vanadium, chrome plated
- in holder



Code	No	Weight g	Box
96 43 22 01	10766/6 ¹⁾	105	1
96 43 22 02	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

10771 Key wrenches

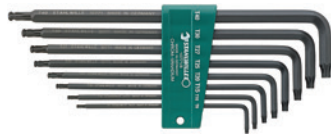
- for inside TORX® screws
- extra long
- with ball end on long arm
- swivel angle up to 25° each side
- Chrome Vanadium, gunmetal finish



Code	size	Tip mm	L ₁ mm	L ₂ mm	Weight g	Box
43 27 00 10	T10	2.7	23	121	10	5
43 27 00 15	T15	3.3	27	136	10	5
43 27 00 20	T20	3.8	29	148	20	5
43 27 00 25	T25	4.4	33	163	24	5
43 27 00 27	T27	5.0	36	176	28	5
43 27 00 30	T30	5.5	38	191	30	5
43 27 00 40	T40	6.6	43	210	35	5

10771/8 Key wrenches

- for inside TORX® screws
- extra long
- with ball end on long arm
- swivel angle up to 25° each side
- Chrome Vanadium, gunmetal finished
- Content: sizes T9; T10; T15; T20; T25; T27; T30; T40
- in holder



Code	g	
96 43 27 01	290	1

10767a 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	"	L ₁ mm	L ₂ mm	g	
43 57 00 04	1/16	14	78	2	10
43 57 00 05	5/64	16	87	4	10
43 57 00 06	3/32	18	99	5	10
43 57 00 07	7/64	20	108	8	10
43 57 00 08	1/8	20	119	10	10
43 57 00 09	9/64	23	132	13	10
43 57 00 10	5/32	25	145	17	10
43 57 00 12	3/16	26	159	26	10
43 57 00 14	7/32	29	170	39	10
43 57 00 16	1/4	31	184	60	10
43 57 00 20	5/16	36	202	100	10
43 57 00 24	3/8	38	222	157	10

10767a Ball ended hexagon key wrenches

- Chrome Vanadium, gunmetal finish
- in holder



Code	No	g	
96 43 57 01	10767a/8 ¹⁾	280	1
96 43 57 02	10767a/13 ²⁾	465	1

¹⁾ Content: 5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4; 5/16"

²⁾ 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"



7 PLIERS & CUTTERS

Combination pliers, flat nose pliers,
round nose pliers, snipe nose pliers
>> Page 195



Circlip pliers
>> Page 200



Waterpump pliers, pipe wrenches
>> Page 202



Self grip wrenches
>> Page 204



Wire twisting pliers, connector pliers
>> Page 207



Side cutters, oblique cutter,
top cutters
>> Page 208



Plastic sidecutters
>> Page 210



Wire stripping pliers, cable shear, crimping pliers,
various cutting pliers
>> Page 211



Sets of tools
>> Page 214



Electronics pliers
>> Page 216



Accurate. Strong. Reliable. STAHLWILLE pliers, cutters & wrenches.



For accurate work and a powerful grip – STAHLWILLE pliers & cutters with multi-component grips. The carefully crafted handle shape and the surface texture ensure firm grip and strain-free handling – even with greasy hands. The special plastic we have used is also resistant to aggressive fluids and, at the end of the lifecycle, can be properly disposed of, because it does not contain PVC.



7

DURABLE.

Smooth-running lap-joints and high-quality materials for a long tool life.

SAFE.

The anti-slip protection prevents your hands slipping off towards the jaws.

ERGONOMICALLY REFINED.

Work without repetitive strain injury thanks to ergonomically designed cushion grip handles.



ACCURATE.

Specially hardened, high-precision cutting edges enable clean, effortless cutting, even of piano wire.

Combination pliers

6501 Combination pliers

- DIN ISO 5746
- precision cutting edges for all wires, incl. piano wire
- induction hardened cutting edges, approx. 62 HRC
- for long life



65013160



65015160



65016160

Code	L mm	Head	Handles	③	④	⑤	⑥	⚖ g
65013160	160	polished	multi-component handles with softer layers	1.8	1.5	10	16	183
65013180	180			2	1.8	12	16	226
65013200	200			2.5	2	13	16	312
65015160	160	chrome plated	multi-component handles with softer layers	1.8	1.5	10	16	190
65015180	180			2	1.8	12	16	230
65015200	200			2.5	2	13	16	310
65016160	160	polished	dip-coated with sure-grip surface	1.8	1.5	10	16	165
65016180	180			2	1.8	12	16	205
65016200	200			2.5	2	13	16	288

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

6507 Flat nose pliers, short

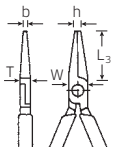
- DIN ISO 5745
- short, flat serrated jaws



65075160



65076160



Code	L mm	Head	Handles	L ₃ mm	W mm	T mm	h mm	b mm	⚖ g
65075160	160	chrome plated	multi-component handles with softer layers	30	17	10	5	9	180
65076160	160	polished	dip-coated with sure-grip surface	30	17	10	5	9	151

6508 Flat nose pliers, long

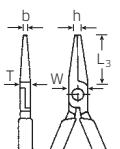
- DIN ISO 5745
- long, flat serrated jaws



65085160



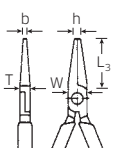
65086160



Code	L mm	Head	Handles	L ₃ mm	W mm	T mm	h mm	b mm	⚖ g
65085160	160	chrome plated	multi-component handles with softer layers	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	T mm	h mm	b mm	⚖ g
65095160	160	chrome plated	multi-component handles with softer layers	50	15	8	3	5	160

Pliers & cutters

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	T mm	h mm	b mm	Δg g
65105190	190	chrome plated	dip-coated with sure-grip surface	75	13.5	8.5	2	4.5	121

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	T mm	h mm	b mm	Δg g
65165200	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	T mm	h mm	b mm	Δg g
65115135	140	chrome plated	dip-coated with sure-grip surface	33	13	7.5	1	1.5	72

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	T mm	h mm	b mm	Δg g
65125135	140	chrome plated	dip-coated with sure-grip surface	33	13	7.5	1	3.5	78

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	T mm	h mm	b mm	Δg g
65135135	140	chrome plated	dip-coated with sure-grip surface	31	13	7.5	1	3.5	78

6518 Mechanics gripping pliers

- Form A, flat blunt
- designed for use by instrument mechanics
- wide precision jaws, smooth, tapering
- box joint for precise movement



Code	L mm	Head	Handles	L ₃ mm	W mm	T mm	h mm	b mm	⊖ g
65 18 51 30	130	chrome plated	dip-coated with sure-grip surface	24	11.5	7	2	6.5	76

6519 Mechanics gripping pliers

- Form B, flat pointed
- designed for use by instrument mechanics
- flat pointed precision jaws, smooth, tapering
- box joint for precise movement



Code	L mm	Head	Handles	L ₃ mm	W mm	T mm	h mm	b mm	⊖ g
65 19 51 30	130	chrome plated	dip-coated with sure-grip surface	24	11.5	7	1.5	2	72

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	T mm	b mm	⊖ g
65 23 51 60	160	chrome plated	multi-component handles with softer layers	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	T mm	b mm	⊖ g
65 24 51 60	160	chrome plated	multi-component handles with softer layers	47	15.5	8.5	2.5	155

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 cutting edges for soft and hard wires
- induction hardened cutting edges, approx. 60 HRC



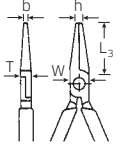
65293160



65295160



65296160



Code	L mm	Head	Handles	L ₃ mm	W mm	T mm	h mm	b mm	Δg
65293145	140	polished	multi-component handles with softer layers	44	15	8	2.5	2	115
65293160	160			51	16	9	3	2.5	155
65293200	200			73	17	9	3	2.5	197
65295145	140	chrome plated	multi-component handles with softer layers	44	15	8	2.5	2	115
65295160	160			51	16	9	3	2.5	150
65295200	200			73	17	9	3	2.5	200
65296145	140	polished	dip-coated with sure-grip surface	44	15	8	2.5	2	92
65296160	160			51	16	9	3	2.5	125
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 cutting edges for soft and hard wires
- induction hardened cutting edges, approx. 60 HRC



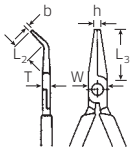
65303200



65305200



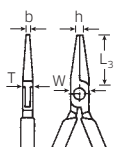
65306200



Code	L mm	Head	Handles	L ₂ mm	L ₃ mm	W mm	T mm	h mm	b mm	Δg
65303160	160	polished	multi-component handles with softer layers	24	55	16	9	3	2.5	145
65303200	200			28	76	17	9	3.5	2.5	198
65305160	160	chrome plated	multi-component handles with softer layers	24	55	16	9	3	2.5	170
65305200	200			28	76	17	9	3.5	2.5	200
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	2.5	178

6531 Mechanics snipe nose pliers

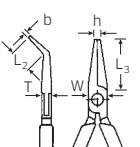
- Form A (straight)
- designed for use on miniature electronic and mechanical components
- half round extra thin, long tapering jaws with fine serration
- box joint for precise movement



Code	L mm	Head	Handles	L ₃ mm	W mm	T mm	h mm	b mm	Δg
65315170	170	chrome plated	dip-coated with sure-grip surface	63	13.5	8	2.5	2	101

6532 Mechanics snipe nose pliers

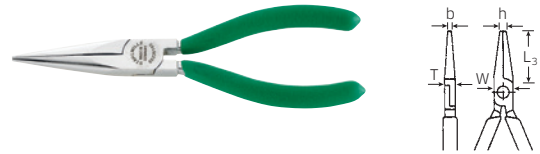
- Form B, bent 45°
- designed for use on miniature electronic and mechanical components
- half round extra thin, long tapering jaws with fine serrations
- box joint for precise movement



Code	L mm	Head	Handles	L ₂ mm	L ₃ mm	W mm	T mm	h mm	b mm	Δg
65325170	170	chrome plated	dip-coated with sure-grip surface	24	54	13.5	8	2.5	2	98

6533 Mechanics snipe nose pliers

- half round, long tapering, serrated jaws



Code	L mm	Head	Handles	L ₃ mm	W mm	T mm	h mm	b mm	⌀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	T mm	h mm	b mm	⌀g
65345200	200	chrome plated	multi-component handles with softer layers	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	T mm	h mm	b mm	⌀g
6535200	200	chrome plated	multi-component handles with softer layers	28	68	17	9.5	3.5	2.5	220
6535280	280	chrome plated	dip-coated with sure-grip surface	28	66	20	9.5	3	2.5	255

6536 Snipe nose pliers (needle pliers)

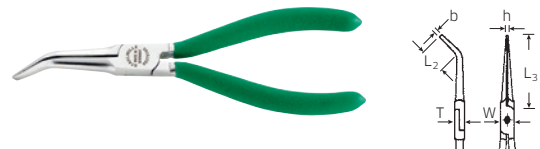
- DIN ISO 9655
- Form A (straight)
- designed for use on electronic components
- half round, extra long tapering jaws with fine serration



Code	L mm	Head	Handles	L ₃ mm	W mm	T mm	h mm	b mm	⌀g
65365160	160	chrome plated	dip-coated with sure-grip surface	58	15	8.5	4	3	110

6537 Snipe nose pliers (needle pliers)

- Form B, bent 45°
- designed for use on electronic components
- half round, extra long tapering jaws with fine serration

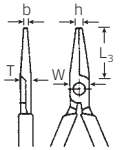


Code	L mm	Head	Handles	L ₂ mm	L ₃ mm	W mm	T mm	h mm	b mm	⌀g
65375160	160	chrome plated	dip-coated with sure-grip surface	25	54	14	8	1	3	115

Pliers & cutters

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	T mm	h mm	b mm	g
65385200	200	chrome plated	dip-coated with sure-grip surface	38	13	9.5	2.5	2	157

Circlip Pliers

6543 Circlip pliers for inside circlips

- DIN 5256 C
- straight
- H.D. drop forged
- precision points



64 43 4002



65 43 6002

Code	size	L mm	tips ∅ mm	for circlips mm	Head	Handles	g
65 43 4000	J 0	140	0.9	8-13	matchrome plated	chrome plated, chequered	90
65 43 4001	J 1	140	1.3	12-25			90
65 43 4002	J 2	180	1.8	19-60			135
65 43 4003	J 3	225	2.3	40-100			195
65 43 4004	J 4	320	3.2	85-140			419
65 43 6000	J 0	140	0.9	8-13	polished	dip-coated with sure-grip surface	100
65 43 6001	J 1	140	1.3	12-25			100
65 43 6002	J 2	180	1.8	19-60			150
65 43 6003	J 3	225	2.3	40-100			215
65 43 6004	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



65 44 40 21



65 44 60 21

Code	size	L mm	tips ∅ mm	for circlips mm	Head	Handles	g
65 44 40 01	J 01	130	0.9	8-13	matchrome plated	chrome plated, chequered	90
65 44 40 11	J 11	130	1.3	12-25			90
65 44 40 21	J 21	170	1.8	19-60			135
65 44 40 31	J 31	215	2.3	40-100			195
65 44 40 41	J 41	300	3.2	85-140			416
65 44 60 01	J 01	130	0.9	8-13	polished	dip-coated with sure-grip surface	100
65 44 60 11	J 11	130	1.3	12-25			100
65 44 60 21	J 21	170	1.8	19-60			150
65 44 60 31	J 31	215	2.3	40-100			215
65 44 60 41	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



65 45 40 02



65 45 60 02

Code	size	L mm	tips Ø mm	for circlips mm	Head	Handles	⚖ g
65 45 40 00	A 0	140	0.9	3-10	matchrome plated	chrome plated, chequered	95
65 45 40 01	A 1	140	1.3	10-25			95
65 45 40 02	A 2	180	1.8	19-60			145
65 45 40 03	A 3	210	2.3	40-100			205
65 45 40 04	A 4	315	3.2	85-140			437
65 45 60 00	A 0	140	0.9	3-10	polished	dip-coated with sure-grip surface	105
65 45 60 01	A 1	140	1.3	10-25			105
65 45 60 02	A 2	180	1.8	19-60			160
65 45 60 03	A 3	210	2.3	40-100			232
65 45 60 04	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



65 46 40 21



65 46 60 21

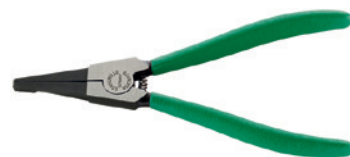
Code	size	L mm	tips Ø mm	for circlips mm	Head	Handles	⚖ g
65 46 40 01	A 01	125	0.9	3-10	matchrome plated	chrome plated, chequered	95
65 46 40 11	A 11	125	1.3	10-25			95
65 46 40 21	A 21	170	1.8	19-60			145
65 46 40 31	A 31	200	2.3	40-100			111
65 46 40 41	A 41	290	3.2	85-140			431
65 46 60 01	A 01	125	0.9	3-10	polished	dip-coated with sure-grip surface	105
65 46 60 11	A 11	125	1.3	10-25			105
65 46 60 21	A 21	170	1.8	19-60			160
65 46 60 31	A 31	200	2.3	40-100			236
65 46 60 41	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



65 47 41 70



65 47 61 70

Code	L mm	Head	Handles	⚖ g
65 47 41 70	170	matchrome plated	chrome plated, chequered	154
65 47 61 70	170	polished	dip-coated with sure-grip surface	162

Waterpump Pliers

6551 Waterpump pliers

- DIN ISO 8976 (No 207 c)
- box joint
- 7 adjustment positions (175 mm 6 adjustment positions)
- anti-squeeze protection
- Chrome Vanadium



65515240



65516175

Code	L mm	Jaw opening max. mm	Head	Handles	Weight g
65515240	245	34	chrome plated	multi-component handles with softer layers	330
65516175	177	24	black lacquered, jaws polished	black lacquered, box frame polished, dip-coated	173
65516240	240	34			320
65516300	302	45			520

6572 Waterpump pliers FastGRIP

- patent
- DIN ISO 8976
- box joint with dual support
- fast adjustment on the work piece via push button
- freely and easily adjustable with 10 snap-in points (180 mm), 12 snap-in points (240 mm), 15 snap-in points (300 mm)
- induction hardened jaw toothing - extremely hard and durable
- safety clamping protection against squeezing injuries
- Chrome Vanadium



Code	L mm	Jaw opening max. mm	Head	Handles	Weight g
65726180	180	28	polished	dip-coated with sure-grip surface	236
65726240	240	37			405
65726300	300	44			530

6573 PowerGRIP pliers wrench

- patent
- box joint
- fast adjustment via button press directly on the work piece
- freely adjustable, easy super fine adjustment
- high transmission ratio for noticeable amplification of manual force
- for work pieces with parallel surfaces (nuts, screws etc.)
- also ideal for bending thin parallel work pieces (e.g. metal sheet)
- parallel jaws without profile to protect surface coated work pieces
- "ratchet effect" for screws by using the jaw stroke
- extremely resistant overall construction, high quality tempered



Code	L mm	Jaw opening max. mm	Head	Handles	Weight g
65735180	192	36	chrome plated	dip-coated with sure-grip surface	291
65735250	253	46			485
65735300	300	60			661

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	Weight g
65544250	255 ¹⁾	52	chrome plated	chrome plated, chequered	476
65544375	375	61			1066

¹⁾ anti-squeeze protection

6954 Spare springs for No 6554

Code	Spare spring for No	g
69 54 00 02	65544250	3
69 54 00 03	65544375	4

6515 MINI-waterpump pliers

- box joint
- 4 adjustment positions
- anti-squeeze protection
- Chrome Vanadium



Code	L mm	Jaw opening max. mm	Head	Handles	g
65 15 61 25	125	25	black lacquered, polished	dip-coated with sure-grip surface	118

Pipe Wrenches

6549 Pipe wrenches

- Type B
- 45°
- DIN 5234



Code	size	L mm	Jaw opening max. mm	Head	Handles	g
65 49 03 15	1	330	35	red lacquered	red lacquered	780
65 49 04 20	1 1/2	445	62			1626
65 49 05 55	2	560	78			2780

6556 Swedish pattern wrenches

- Type A
- 90°
- DIN 5234



Code	size	L mm	Jaw opening max. mm	Head	Handles	g
65 56 03 10	1	320	44	red lacquered	red lacquered	780
65 56 04 20	1 1/2	420	64			1560
65 56 05 60	2	540	83			2676

6557 S-shaped Swedish pattern wrenches

- Type C
- DIN 5234



Code	size	L mm	Jaw opening max. mm	Head	Handles	g
65 57 03 20	1	330	40	red lacquered, polished	red lacquered	811
65 57 04 16	1 1/2	440	60			1595
65 57 05 35	2	560	70			2677

Pliers & cutters

6558 "Heavy-duty" pipe wrenches

- US-standard GGG-W-651 Type II, category A



Code	size	L mm	Jaw opening max. mm	Head	Handles	Δ ₂ g
65 58 02 50	10"	250	49	black lacquered, polished	red lacquered	805
65 58 03 00	12"	300	61			1255
65 58 03 50	14"	350	61			1665
65 58 04 50	18"	450	77			2660
65 58 06 00	24"	600	90			3955

6559 "Stillson" pipe wrenches

- US-standard GGG-W-651 Type I, category A



Code	size	L mm	Jaw opening max. mm	Head	Handles	Δ ₂ g
65 59 02 50	10"	250	35	black lacquered, polished	red lacquered	550
65 59 03 00	12"	300	43			750
65 59 03 50	14"	350	49			1080
65 59 04 50	18"	450	61			1725
65 59 06 00	24"	600	77			2745

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	Δ ₂ g
65 61 21 75	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	Δ ₂ g
65 62 22 50	250	50	bright nickel-plated	bright nickel-plated	700

6562/1, 6562/2 Parallel jaw self grip wrenches

- forged jaws, quick release lever
- for small round parts (V-cutout in one jaw) 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	998
65622200	250	200			1100

6962 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	10

6563 Universal self grip wrenches

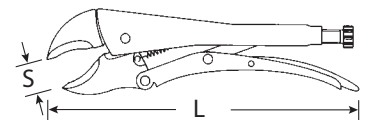
- forged jaws (one straight, one contoured), quick release lever
- Chrome Vanadium



Code	L mm	S mm	Head	Handles	△ g
65632175	175	25	bright nickel-plated	bright nickel-plated	365
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			550
65642300	300	65			977

Pliers & cutters

6565 Welders self grip wrench

- with quick release lever
- **malleable cast iron jaws**
- Chrome Vanadium



Code	L mm	S mm	Head	Handles	g
6565 2280	280	65	bright nickel-plated	bright nickel-plated	941

6566 Pipe welders self grip wrench

- with quick release lever
- **malleable cast iron jaws**
- Chrome Vanadium



Code	L mm	S mm	Head	Handles	g
6566 2280	280	85	bright nickel-plated	bright nickel-plated	944

6567 C-Clamp self grip wrenches

- with quick release lever
- Chrome Vanadium



Code	L mm	S mm	Head	Handles	g
6567 2175	175	75	bright nickel-plated	bright nickel-plated	236
6567 2280	280	85			694

6568 Long reach grip wrenches

- extra large capacity
- quick release lever
- Chrome Vanadium



Code	L mm	S mm	Head	Handles	g
6568 2460	460	180	bright nickel-plated	bright nickel-plated	1100
6568 2600	600	240			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
6571 2165	165	23	bright nickel-plated	bright nickel-plated	190

Wire Twisting Pliers

6575 Wire twisting pliers

- 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 anticlockwise use**
- with automatic return action
- Chrome Vanadium



65751220



65751280

Code	L mm	Head	Handles	\varnothing g
6575 1220	230	gunmetal finish, polished	gunmetal finish	330
6575 1280	280			440



7

Various Gripping Pliers

6576N 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	\varnothing g
6576 5231	230	chrome plated	with dip-coated	288

6976 Loose plastic jaws for No 6576N

Code	\varnothing g
6976 0001	4

Side Cutters

6600 Side cutters ✂

- DIN ISO 5749
- Form B
- precision cutting edges for all wires incl. piano wire
- high quality alloy steel
- bevelled cutting edges induction hardened, approx. 63 HRC



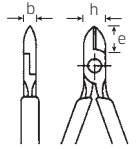
66003160



66005160



66006160



Code	L mm	Head	Handles	e mm	h mm	b mm	①	②	③	④	⚖ g
66003130	125	polished	multi-component handles with softer layers	24	17	8.6	2.8	2.3	1.5	1.25	110
66003145	140			25.7	18.5	8.2	3	2.5	1.8	1.6	147
66003160	160			29.5	22.5	9.5	3	2.8	2	1.6	188
66003180	180			32	23.5	11	3.8	3	2.5	2	242
66005130	125	chrome plated	multi-component handles with softer layers	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	190
66005180	180			32	23.5	11	3.8	3	2.5	2	255
66006130	125	polished	dip-coated with suregrip surface	24	17	8.6	2.8	2.3	1.5	1.25	92
66006145	140			25.7	18.5	8.2	3	2.5	1.8	1.6	121
66006160	160			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

6602 Heavy-duty side cutters ✂

- DIN ISO 5749
- Form A
- precision cutting edges for all wires incl. piano wire
- high quality alloy steel
- bevelled cutting edges induction hardened, approx. 63 HRC



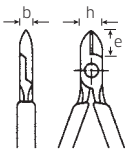
66023200



66025200



66026200



Code	L mm	Head	Handles	e mm	h mm	b mm	①	②	③	④	⚖ g
66023140	140	polished	multi-component handles with softer layers	23.5	20	9	4	3.1	2	1.5	156
66023160	160			25.5	25	9.5	4	3.4	2.5	2	203
66023180	180			27.5	26.5	10.5	4	3.8	2.7	2.2	251
66023200	200			31	28	11.5	4	4	3	2.5	305
66023250	250			32	29.5	12	4	4	3.5	3	407
66025140	140	chrome plated	multi-component handles with softer layers	23.5	20	9	4	3.1	2	1.5	145
66025160	160			25.5	25	9.5	4	3.4	2.5	2	210
66025180	180			27.5	26.5	10.5	4	3.8	2.7	2.2	245
66025200	200			31	28	11.5	4	4	3	2.5	310
66025250	250			32	29.5	12	4	4	3.5	3	409
66026140	140	polished	dip-coated with suregrip surface	23.5	20	9	4	3.1	2	1.5	140
66026160	160			25.5	25	9.5	4	3.4	2.5	2	170
66026180	180			27.5	26.5	10.5	4	3.8	2.7	2.2	230
66026200	200			31	28	11.5	4	4	3	2.5	260
66026250	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

6601 Side cutter ✂

- as No 6600, fitted with double leaf spring
- mini bevel



Code	L mm	Head	Handles	e mm	h mm	b mm	①	②	③	④	Δ g
66016110	110	polished	dip-coated with suregrip surface	15	15	8.5	2.5	1.5	1.2	0.8	79

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

Oblique Cutter

6612 Mechanics oblique cutter ✂

- 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 \varnothing 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	Δ g
66125185	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 Heavy-duty top cutters ✂

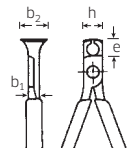
- DIN ISO 5748
- precision cutting edges for all wires, incl. piano wire
- alloy steel of highest quality
- induction hardened bevelled cutting edges, approx. 63 HRC



66185160



66186160



Code	L mm	Head	Handles	e mm	h mm	b ₁ mm	b ₂ mm	①	②	③	④	Δ g
66185160	160	chrome plated	multi-component handles with softer layers	17	26	11.5	24	3.8	3	2.5	2	240
66186160	160	polished	dip-coated with sure-grip surface	17	26	11.5	24	3.8	3	2.5	2	211

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	①	②	③	④	Δ g
66170180	180	polished	black lacquered	3.5	3	2.5	2.25	394
66170215	215			4	3.5	2.8	2.5	440
66170235	235			4	3.5	3	2.75	467

① Cutting capacity in mm for soft wire

② Cutting capacity in mm for medium hard wire

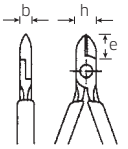
③ Cutting capacity in mm for hard wire

④ Cutting capacity in mm for piano wire

Plastic side-cutters

6670 Plastic side-cutter ✂

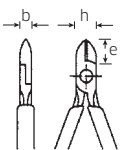
- for plastic injection mouldings
- with particularly narrow, straight cutting edges
- with no bevel to enable flush trimming of sprues and burrs
- only for thin sprues made of soft thermoplastic
- with spring-loaded opening
- induction-hardened cutting edges



Code	L mm	Head	Handles	e mm	h mm	b mm	Δ g
66706120	120	polished	dip-coated with sure-grip surface	13	11	7	56

6671 Plastic side-cutter ✂

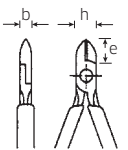
- for plastic injection mouldings
- with particularly narrow, straight cutting edges
- 45° angled
- with no bevel to enable flush trimming of sprues and burrs
- only for thin sprues made of soft thermoplastic
- with spring-loaded opening
- induction-hardened cutting edges



Code	L mm	Head	Handles	e mm	h mm	b mm	Δ g
66716120	120	polished	dip-coated with sure-grip surface	12	11	7	56

6672 Plastic side-cutters ✂

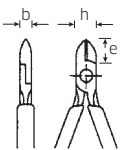
- for plastic injection mouldings
- with straight cutting edges
- 20° angled
- with no bevel to enable flush trimming of sprues and burrs
- with spring-loaded opening
- induction-hardened cutting edges



Code	L mm	Head	Handles	e mm	h mm	b mm	Δ g
66726130	130	polished	dip-coated with sure-grip surface	22	16	9	107
66726145	145			25	17	10	120
66726160	160			28	18	10	161

7 **6673** Plastic side-cutters ✂

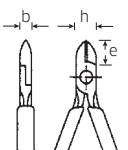
- for plastic injection mouldings
- with raised cutting edges
- 20° angled
- with no bevel to enable flush trimming of sprues and burrs
- with spring-loaded opening
- induction-hardened cutting edges



Code	L mm	Head	Handles	e mm	h mm	b mm	Δ g
66736130	130	polished	dip-coated with sure-grip surface	22	17	8.5	107
66736145	145			23	18	9.5	119
66736160	160			28	18	10.5	165

6674 Plastic side-cutter ✂

- for plastic injection mouldings
- with convex cutting edge
- with no bevel to enable flush trimming of sprues and burrs
- with spring-loaded opening
- induction-hardened cutting edges



Code	L mm	Head	Handles	e mm	h mm	b mm	Δ g
66746160	160	polished	dip-coated with sure-grip surface	28	20	11	162

6676 Plastic side-cutters

- for plastic injection mouldings
- with straight cutting edges
- 30° angled
- with no bevel to enable flush trimming of sprues and burrs
- with spring-loaded opening
- induction-hardened cutting edges



Code	L mm	Head	Handles	e mm	h mm	b mm	△ g
66766130	130	polished	dip-coated with sure-grip surface	19	16.5	8.5	105
66766145	145			21	18.5	9.5	125
66766160	160			28	20	11	165

6677 Plastic side-cutter

- for plastic injection mouldings
- with straight cutting edges
- 90° angled
- with no bevel to enable flush trimming of sprues and burrs
- with spring-loaded opening
- induction-hardened cutting edges



Code	L mm	Head	Handles	e mm	h mm	b mm	△ g
66776160	160	polished	dip-coated with sure-grip surface	25	21	10	166

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	multi-component handles with softer layers	195
66226160	160	polished	dip-coated with sure-grip surface	134

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	multi-component handles with softer layers	175

6923 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	multi-component handles with softer layers	186

Pliers & cutters

Cable Shear

6630 Cable shear

- for copper- and light alloy cables
- easy, single handed operation
- special cutting edges 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
66305220	220	chrome-plated	dip-coated with sure-grip surface	16	35	70	290

⑦ cutting capacity in mm² for single wire Al-/Cu-Cable ⑨ cutting capacity in mm² for thin wire Al-/Cu-Cable
 ⑧ cutting capacity in mm² for multiple wire Al-/Cu-Cable

Crimping Pliers

6634 Crimping pliers

- with half round profile
- 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
66346220	220	gunmetal finish	dip-coated with sure-grip surface	0.25; 0.5; 0.75; 1; 1.5; 2.5; 4; 6; 10; 16	240

6637 Crimping pliers

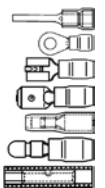
- for use with terminal sleeves with or without an insulating collar in accordance with DIN 46228
- high precision crimping
- easy-action force transmission coupled with simple handling
- unlockable autolock
- accurately ground profiles
- crimp shape: □



Code	L mm	Head	Handles	crimping range mm ²	△△ g
66370195	195	gunmetal finish	with plastic sleeves	0.08 - 10	298

6638 Crimping pliers

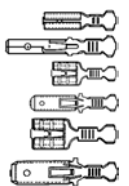
- for red/blue/yellow insulated cable lugs, pin-type cable lugs, flat plugs and sleeves, round plugs and sleeves, butt and parallel connectors
- unlockable autolock
- easy handling
- stripping and cutting device, refer to No 6966
- crimp shape: ○



Code	L mm	Head	Handles	crimping range mm ²	△△ g
66380220	220	gunmetal finish	with plastic sleeves	red = 0.5-1 (AWG 20-18); blue = 1.5-2.5 (AWG 16-14); yellow = 4-6 (AWG 12-10)	477

6639 Crimping pliers

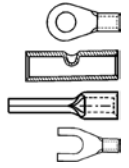
- for non-insulated flat plugs and flat sleeves for nominal DIN widths F2.8; F4.8; F6.3; F9.5
- unlockable autolock
- easy handling
- stripping and cutting device, refer to No 6966
- crimp shape: ⊞



Code	L mm	Head	Handles	crimping range mm ²	△△ g
66390220	220	gunmetal finish	with plastic sleeves	0.25-0.5 (AWG 24-20); 0.5-1 (AWG 20-18); 4-6 (AWG 12-10); 1.5-2.5 (AWG 16-14)	483

6640 Crimping pliers

- for non-insulated cable lugs and tubular cable lugs with closed crimp sleeves
- unlockable autolock
- easy handling
- stripping and cutting device, refer to No 6966
- crimp shape: ☺



Code	L mm	Head	Handles	crimping range mm ²	⚖ g
66400220	220	gunmetal finish	with plastic sleeves	0.1-0.35 (AWG 26-22); 0.5-1 (AWG 20-18); 1.5-2.5 (AWG 16-14); 4-6 (AWG 12-10); 10-16 (AWG 8-6)	465

6641 Crimping pliers

- for use with terminal sleeves with or without an insulating collar in accordance with DIN 46228
- unlockable autolock
- easy handling
- stripping and cutting device, refer to No 6966
- crimp shape: ☐



Code	L mm	Head	Handles	crimping range mm ²	⚖ g
66410220	220	gunmetal finish	with plastic sleeves	0.14-0.5;0.75-1.5;2.5;4;6;10	536

6966 Stripping and cutting tool

- for stripping wires from 0.5 to 6 mm ϕ
- cables can also be cut
- for use with crimping pliers No 6638, 6639, 6640 and 6641



Code	⚖ g
69660000	37

Various Cutting Pliers

6660 Steel fixers pincers

- DIN ISO 9242
- limit on opening angle to ensure single-handed closure (registered design)
- little effort required due to optimised cutter geometry
- induction-hardened cutters provide excellent resistance to wear
- special steel
- drop-forged
- oil hardened



Code	L mm	Head	Handles	⚖ g
66601220	224	polished	black lacquered	318
66601250	250			390
66601280	280			475

6661 Pincers

- DIN ISO 9243
- special steel
- drop-forged
- oil hardened



Code	L mm	Head	Handles	⚖ g
66611180	180	polished	black lacquered	322
66611200	200			350

Pliers & cutters

6662 Heavy-duty steel fixer pincers

- DIN ISO 9243
- induction-hardened cutting edges
- high wear resistance
- extremely low cutting force effort due to very large lever effect and optimum cutting edges geometry
- clearly damped cutting shock due to "elastic" pliers body, therefore ideal for continuous use special steel
- ultra-slim design, ideal for binding recessed reinforcing bars
- special steel
- drop-forged
- oil hardened



Code	L mm	Head	Handles	g
66624300	300	chrome plated, polished	chrome plated	478

6706 Set with 3 pliers, polished

dip-coated,
in plastic inlay
Content:

- 6501 Combination pliers, 180 mm
- 6602 Heavy-duty side cutter, 160 mm
- 6529 Snipe nose pliers, 200 mm



Code	g
96650008	750

6705 Set with 3 pliers, polished

dip-coated,
in plastic inlay
Content:

- 6551 Waterpump pliers, 240 mm, lacquered
- 6501 Combination pliers, 180 mm
- 6602 Heavy-duty side cutter, 160 mm



Code	g
96650007	880

6703 Set with 3 pliers, chrome plated

multi-component handles with
softer layers,
in plastic inlay
Content:

- 6501 Combination pliers, 180 mm
- 6602 Heavy-duty side cutter, 160 mm
- 6529 Snipe nose pliers, 200 mm



Code	g
96650005	810

6704 Set with 3 pliers, chrome plated

multi-component handles with
softer layers (No 6501, 6602),
in plastic inlay
Content:

- 6551 Waterpump pliers, 240 mm
- 6501 Combination pliers, 180 mm
- 6602 Heavy-duty side cutter, 160 mm



Code	g
96650006	900

6702 Set with 4 pliers, chrome plated

handles chequered, in plastic inlay
Content:

- 6543 Circlip pliers, J2
- 6544 Circlip pliers, J21
- 6545 Circlip pliers, A2
- 6546 Circlip pliers, A21



Code	g
96650004	590

Sets of pliers in plastic inlays also suitable for workbench No WB620, tool trolleys No 90, 95, 95VA, 98VA, magazine case No 920 and wheely box No 922N (modular system see page 46-79)

ES 6501-6602/7A



- 530 x 350 x 40 mm
- 7 pieces

Code	ΔΔ g
96838121	2085

No		
	65015180	180 mm
	65295200	200 mm
	65434002	J2 180 mm
	65454002	A2 180 mm
	65516240	240 mm
	65642250	250 mm
	66025160	160 mm

ES 6501-6602/7B



- 530 x 350 x 40 mm
- 7 pieces

Code	ΔΔ g
96838132	2055

No		
	65015200	200 mm
	65295160	160 mm
	65434002	J2 180 mm
	65454002	A2 180 mm
	65516240	240 mm
	65642250	250 mm
	66025160	160 mm

TCS 6501-6602/3



TCS



- 175 x 350 x 40 mm
- 3 pieces

Code	ΔΔ g
96838775	1125

No		
	65015200	200 mm
	65516300	302 mm
	66025180	180 mm

TCS 6501-6602/4



TCS



- 175 x 350 x 35 mm
- 4 pieces

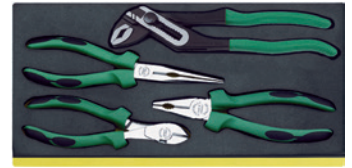
Code	ΔΔ g
96838179	1070

No		
	65015180	180 mm
	65295200	200 mm
	65516240	240 mm
	66025160	160 mm

TCS 6501-6602/4N



TCS



- 175 x 350 x 35 mm
- 4 pieces

Code	ΔΔ g
96830622	1145

No		
	65015180	180 mm
	65295200	200 mm
	65726240	240 mm
	66025160	160 mm

Pliers & cutters

TCS 6543-6564/3



- 175 x 350 x 30 mm
- 3 pieces



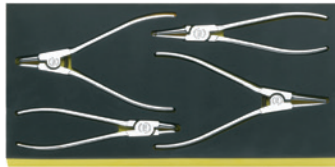
Code	⚠ g
96838180	975

No		
65 43 4002	J2	180 mm
65 45 4002	A2	180 mm
65 64 2250		250 mm

TCS 6543-6546/4



- 175 x 350 x 30 mm
- 4 pieces



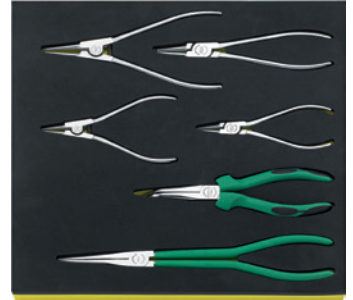
Code	⚠ g
96830608	626

No		
65 43 4002	J2	180 mm
65 44 4021	J21	170 mm
65 45 4002	A2	180 mm
65 46 4021	A21	170 mm

TCS 6534-6545/6



- 350 x 350 x 30 mm
- 6 pieces



Code	⚠ g
96832100	1070

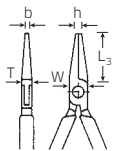
No		
65 34 52 80		280 mm
65 35 52 00		200 mm
65 43 4001	J1	140 mm
65 43 4002	J2	180 mm
65 45 4001	A1	140 mm
65 45 4002	A2	180 mm

7

Electronics Pliers, suitable for electrostatic discharge (ESD) applications ⚡

6517 Electronics flat nose pliers ⚡

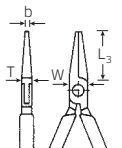
- DIN ISO 9655
- designed for use on miniature electronic and mechanical components
- welded on double leaf spring
- precision jaws, smooth, tapering
- box joint for precise movement



Code	L mm	Head	Handles	L ₃ mm	W mm	T mm	h mm	b mm	⚠ g
65 17 61 20	125	polished	dip-coated with sure-grip surface, ESD applications	20	9	6.5	1.5	3	47

6526 Electronics round nose pliers ⚡

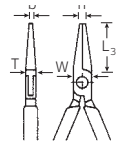
- DIN ISO 9655
- designed for use on miniature electronic and mechanical components
- welded on double leaf spring
- smooth, thin, round precision jaws
- box joint for precise movement



Code	L mm	Head	Handles	L ₃ mm	W mm	T mm	b mm	⚠ g
65 26 61 20	125	polished	dip-coated with sure-grip surface, ESD applications	22	9	6.5	1.25	45

6540 Electronics snipe nose pliers

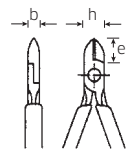
- DIN ISO 9655
- designed for use on miniature electronic and mechanical components
- welded on double leaf spring
- half round, smooth precision jaws, tapering
- box joint for precise movement



Code	L mm	Head	Handles	L ₃ mm	W mm	T mm	h mm	b mm	Δ g
65406120	125	polished	dip-coated with sure-grip surface, ESD applications	21	9	6.5	1	1	50

6603 Electronics side cutter

- 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	①	②	③	④	Δ g
66036115	115	polished	dip-coated with sure-grip surface, ESD applications	14	11	6.5	1.5	1	0.8	0.5	60

① Cutting capacity in mm for soft wire

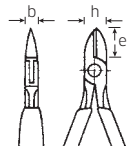
② Cutting capacity in mm for medium hard wire

③ Cutting capacity in mm for hard wire

④ Cutting capacity in mm for piano wire

6605 Electronics side cutter

- 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	①	②	③	④	Δ g
66056110	112	polished	dip-coated with sure-grip surface, ESD applications	13	10.5	7	1.5	1	0.8	0.6	64

① Cutting capacity in mm for soft wire

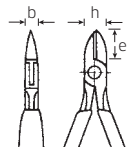
② Cutting capacity in mm for medium hard wire

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	①	②	③	④	Δ g
66066110	112	polished	dip-coated with sure-grip surface, ESD applications	13	12	7.5	1.5	1	0.8	0.6	64
66066130	125			18	16	10	1.7	1.2	1	0.8	104

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

Pliers & cutters

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, ESD applications	13	12	7.5	1.5	1	64
66076130	125			18	16	10	1.5	1	104

① Cutting capacity in mm for soft wire

② Cutting capacity in mm for medium hard wire

6604 Mini-electronics side cutter

- 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, ESD applications	11	9	6	1	0.8	0.6	0.4	49

① Cutting capacity in mm for soft wire

③ Cutting capacity in mm for hard wire

② Cutting capacity in mm for medium hard wire

④ Cutting capacity in mm for piano wire

6613 Electronics oblique cutter

- 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, ESD applications	11	11	7.5	10.5	1	0.8	0.6	0.4	60

① Cutting capacity in mm for soft wire

③ Cutting capacity in mm for hard wire

② Cutting capacity in mm for medium hard wire

④ Cutting capacity in mm for piano wire

6614 Electronics oblique cutter

- 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	Δ g
66146115	112	polished	dip-coated with sure-grip surface, ESD applications	11	11	7.5	10.5	1	0.6	55

① Cutting capacity in mm for soft wire

② Cutting capacity in mm for medium hard wire

6615 Electronics oblique cutter

- 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	Δ g
66156115	112	polished	dip-coated with sure-grip surface, ESD applications	8	18	8	6	0.6	0.3	47

① Cutting capacity in mm for soft wire

② Cutting capacity in mm for medium hard wire

6619 Electronics top cutter

- 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	h mm	b ₁ mm	b ₂ mm	①	②	Δ g
66196115	112	polished	dip-coated with sure-grip surface, ESD applications	15.5	5.5	6	5	0.6	0.3	65

① Cutting capacity in mm for soft wire

② Cutting capacity in mm for medium hard wire

6620 Electronics top cutter

- DIN ISO 9654
- precision cutting edges for soft and hard wires
- mini-bevel
- head angled 90°
- pointed head
- Cu-wire 0.25 mm ϕ may be cut at the tips
- welded on double leaf spring
- 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	③	④	Δ g
66206115	112	polished	dip-coated with sure-grip surface, ESD applications	6.5	11	7.5	11	1	0.8	0.6	0.4	83

① Cutting capacity in mm for soft wire

③ Cutting capacity in mm for hard wire

② Cutting capacity in mm for medium hard wire

④ Cutting capacity in mm for piano wire

6621 Electronics top cutter

- 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
66216115	112	polished	dip-coated with sure-grip surface, ESD applications	6.5	11	7.5	11	1	0.6	84

① Cutting capacity in mm for soft wire

② Cutting capacity in mm for medium hard wire



8 TUBE TOOLS, OTHER TOOLS

Pipe tools
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Hammers
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Chisels, drift pins, centre punches, pin punches
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Scrapers, files, hacksaws
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Thread tools
>> Page 232



Screw extractor, stud remover, nut splitters
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Measuring tools
>> Page 233



Ratchet tap holders
>> Page 234



Miscellaneous tools
>> Page 234



Torches
>> Page 237



Tweezers, wire cutter
>> Page 238



As versatile as the work day is demanding. **STAHLWILLE problem-solvers.**



Approved procedures are becoming ever more complex and special-purpose tools are often required for service and repair work. Screw extractors, hooks and picks, pipe cutters and scrapers are just a few of the many problem solvers that STAHLWILLE offers.

STRONG.

The chain pipe cutter No. 157 is even suitable for stainless steel pipes up to 1.8 mm wall thickness and is infinitely adjustable.



THE JOB SAVER.

STAHLWILLE's screw extractor No 901: removing broken-off screws from tapped holes is a simple matter with this tool - without damaging the workpiece. Simple to use, top quality and »Made in Germany«.



UNBREAKABLE.

Indispensable aid that helps you »think round corners« in confined working spaces. With unbreakable stainless steel mirrors - F&D compliant.



COMPACT.

Space-saving, but precise. Small bore pipe cutter No 155 for pipes made of copper, brass, light alloy, hard plastic and thin-walled steel pipes, with a maximum cutting depth of 2.0 mm.



GENTLE.

Resilient but workpiece-friendly. Deadblow mallet No 10959 with steel shot in the hollow head ensures recoil-free strikes.



DURABLE.

The ergonomic three-square engineer's scraper No. 10670 features a 360° two-component cushioned handle and always fits snugly in the hand, even in the most demanding applications. The special steel composition ensures the renowned STAHLWILLE durability.

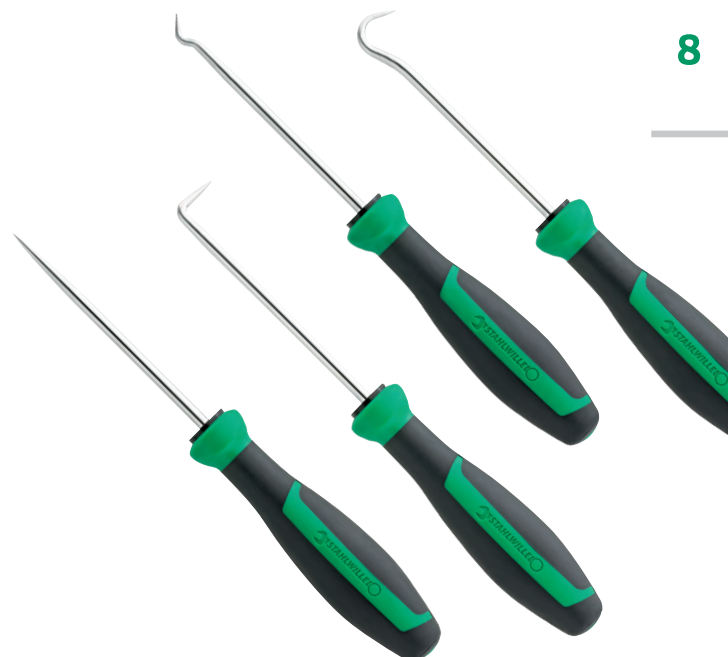


TO THE POINT.

This extremely bright LED torch No. 13126-1 is very durable, ATEX rated for Zone 1 and even waterproof to IP68. Its luminous efficacy of 77 lumen means you will always be on the bright side.

UNIVERSAL.

Universally applicable hooks and picks for fitting and removing small components such as simmerring seals and O-rings, seals, trim strip clips and panelling without damaging them. Also indispensable helpers in many other situations.



Tube tools, other tools

150 EXPRESS pipe cutters

- with one cutting wheel and two guide rollers
- for steel, copper, brass, aluminium and hard plastic tubes



Code	size	"	mm	mm	Cutting depth max. mm	g	
60021001	1 ¹⁾	1/8-1 1/4	3-32	6-43	4.5	1166	1
60021002	2 ¹⁾	1/8-2	3-50	10-63	7	2149	1
60121001	1/3 ²⁾	1/8-1 1/4	3-32	6-43	4.5	1113	1
60121002	2/3 ²⁾	1/8-2	3-50	10-63	7	1975	1

- ¹⁾ with wide guide rollers
²⁾ with three cutting wheels

153 METAL pipe cutter

- for use on copper, brass, light alloy, PVC and thin walled steel tubes
- with deburring tool (3 cutting edges) inside handle
- forged
- 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

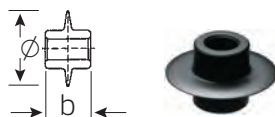
- for use on copper, brass, light alloy, PVC and thin walled steel tubes



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

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	665	1

K157 Chain

Code	g	
69130001	183	1

RL 150/153/1500 Guide rollers

- for pipe cutters



Code	No	for pipe cutter	∅ mm	b mm	g	
69020107	RL 1500/1	150/1	23	21.5	62	2
69070202	RL 1500/2	150-151/2	28	27.5	117	5
69020302	RL 150/3/4	150-151/3 + 4	33	19	115	5
69010002	RL 153	153	12	12	10	5

BL/BZ 150/153/1500 Spindles

- for wheels and guide rollers



Code	No	wheel-bolt	roller-bolt	for pipe cutter	∅ mm	L mm	g	
69020104	BL 150/1	x ¹⁾		150/1	7.5	29	10	1
69020103	BZ 1500/1		x ²⁾	150/1	7.5	38.5	14	10
69070203	BZ 1500/2		x	150-151/2	9	46	23	10
69070204	BL 1500/2	x		150-151/2	9	38	19	10
69020303	BZ 150/3/4	x	x	150-151/3 + 4	9	36	17	10
69020304	BL 150/4N	x ³⁾		150/4	9	40	21	1
69010003	BZ 153		x	153	4	18.5	2	10
69010004	BL 153	x		153	4.75	13	2	1

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

³⁾ wheel bolt for 150/4 from 2009

RI 1500 Spacing washers

- when required to fit pipe cutters No 150/1, 150/2 or No 150/4 with 3 cutting wheels (to work in confined spaces), a total of 4 spacing washers is required. Simply exchange the 2 guide rollers for 2 cutting wheels No SR150 with 2 spacing washers to each

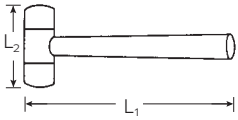


Code	size	for pipe cutter	∅ mm	b mm	g	
68020101	1	150/1	14	3.9	8	6
68020201	2	150/2, 151/2	16	4.45	4	6
68020301	4	150/4 ^{*)}	18	9.5	18	1

^{*)} for 150/4 from 2009

10955 Plastic hammers

- with interchangeable heads of impact resisting cellulose acetate and ash handles



Code	∅ mm	L ₁ mm	L ₂ mm	⚖ g	📦
70 160027	27	265	90	235	6
70 160032	32	280	100	320	6
70 160035	35	290	105	376	2
70 160040	40	320	110	545	2
70 160050	50	340	115	873	2

10956 Nylon hammers

- with interchangeable heads of shockproof nylon vestamid and hickory handles



Code	∅ mm	L ₁ mm	L ₂ mm	⚖ g	📦
70 17 1027	27	265	90	232	6
70 17 1032	32	280	100	336	6
70 17 1035	35	290	105	413	2
70 17 1040	40	320	110	546	2
70 17 1050	50	340	115	865	2
70 17 1060	60	380	135	1339	2

10955R Spare plastic heads

- of impact resisting cellulose acetate
- these are lightly heated and then tapped into position

Code	∅ mm	⚖ g	📦
79 04 0027	27	14	5
79 04 0032	32	22	10
79 04 0035	35	29	10
79 04 0040	40	39	10
79 04 0050	50	69	10

10956R Spare nylon heads

- these are lightly heated and then tapped into position

Code	∅ mm	⚖ g	📦
79 05 0027	27	11	10
79 05 0032	32	18	10
79 05 0035	35	23	10
79 05 0040	40	31	10
79 05 0050	50	53	10
79 05 0060	60	83	10

10958 Embossing hammer

- aluminium
- cylindrical
- with hickory handle



Code	∅ mm	L ₁ mm	L ₂ mm	⚖ g	📦
70 24 0040	40	340	155	648	2

10940 Rubber composition hammers

- DIN 5128
- with two plane faces



Code	∅ mm	L ₁ mm	L ₂ mm	⚖ g	📦
70 14 0001	55	320	90	317	2
70 14 0002	65	350	115	527	2
70 14 0003	75	350	130	780	2
70 14 0004	90	380	140	1220	2

10959 Dead blow hammers

NEW

- the hollow head is partially filled with steel shot which adds to the weight, prevents recoil
- with interchangeable heads made of medium-hard polyurethane and with a hickory handle



Code	∅ mm	L ₁ mm	L ₂ mm	⚖ g	📦
70 19 0130	30	330	110	460	6
70 19 1035	35	335	110	580	6
70 19 0140	40	355	115	760	2
70 19 1050	50	365	120	1250	2
70 19 1060	60	360	145	1900	2

10959R Spare heads

NEW

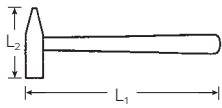
Code	∅ mm	⚖ g	📦
79 09 1030	30	19	1
79 09 1035	35	26	1
79 09 1040	40	38	1
79 09 1050	50	72	1
79 09 1060	60	118	1

Tube tools, other tools

10961 Engineers hammers

NEW

- metal overstrike sleeves provide excellent protection against "misses"
- ergonomically designed, doubly shaped hickory handles
- lacquered handle end improves grip
- complies with DIN 1041
- DIN and weight are punched into the hammer head



Code	g	L ₁ mm	L ₂ mm	g	g	g
70110009	200	280	95	254	6	
70110010	300	300	105	400	6	
70110011	500	320	118	600	6	
70110013	800	350	130	951	2	
70110015	1000	360	135	1132	2	
70110016	1500	380	145	1617	1	
70110017	2000	400	155	2285	2	

10962 Club hammers

NEW

- metal overstrike sleeves provide excellent protection against "misses"
- ergonomically designed, doubly shaped hickory handles
- lacquered handle end improves grip
- complies with DIN 6475
- DIN and weight are punched into the club hammer head



Code	g	L ₁ mm	L ₂ mm	g	g	g
70111010	1000	260	95	1410	2	
70111015	1250	260	100	1660	2	
70111020	1500	280	110	1910	2	

10970 Engineers hammers

- with ash handles



Code	lb.	L ₁ mm	L ₂ mm	g	g	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	572	6	
70120004	1 1/2	350	118	790	2	
70120003	2	380	126	1045	2	

ES 10956/10961/2

- 175 x 350 x 45 mm
- 2 pieces



Code	g	g
96838125	1130	

No

No	Code	g
	10956	∅ 35 mm
	10961	500 g

ES 10956/10970/2

- 175 x 350 x 45 mm
- 2 pieces



Code	g
96838131	1075

No

No	Code	g
	10956	∅ 35 mm
	10970	1 lb.

100 Ribbed cold chisels

- chrome vanadium steel, chrome plated



Code	size	L mm	b mm	g	g	g
70010006	6	150	20	165	10	
70010008	8	200	26	305	5	
70010010	10	250	30	507	5	
70010012	12	300	35	807	5	

102 Cold chisels

- DIN 6453
- flat
- chrome vanadium steel, lacquered silver



Code	size	L mm	b mm	g	g	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	521	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	g	g
70040003	150	150	16	147	10	
70040004	175	175	17	239	10	
70040005	200	200	18	340	5	

110 Grooving chisel

- flat
- chrome vanadium steel, lacquered silver



Code	L mm	b mm	g	g
70080001	240	26	298	5

112 Grooving chisel

- as No 110, but with finger protector



Code	L mm	b mm	g	
70080002	240	26	434	5

112/1 Finger protector

- for cold chisels No 102 and cross-cut chisels No 103 from 200 mm onward
- for grooving chisel No 110, 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

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

ES 102/108/109/4

- 175 x 350 x 30 mm
- 4 pieces



Code	g
96838123	555

No	Content
102	175 mm
108	150 x 6; 175 x 6 mm
109	size 6; 100 x 3.4 mm

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	29	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	3	10	175	57	10
70070010	175 x 4¹⁾	4	10	175	64	10
70070012	175 x 6	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 Mercedes-Benz (retaining pins of disc brake pads)

- 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 102/105/108/8



- 175 x 350 x 33 mm
- 8 pieces



Code	g
96838124	900

No	Content
102	175 mm
105	120 x 12 mm
108	150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm

Tube tools, other tools

102-5/6 Sets: Chisels, pins, punches

Content 6 pieces:
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
T = in textile bag



Code	No	g	g	g
9881 2201	102-5/6 D	445	1	
9881 2202	102-5/6 T	470	5	

104-5/6D Set: Drift pins, centre punches

Content 6 pieces:
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

in plastic stand



Code	g	g	g
96700601	417	1	

105-8/6K Pin punch-/centre punch set

Content 6 pieces:
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

in plastic container stand



Code	g	g	g
96700711	483	1	

108/6 Sets: Parallel pin punches

Content 6 pieces:
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
T = in textile bag



Code	No	g	g	g
96700701	108/6 D	450	1	
96700702	108/6 T	460	5	

TCS 102-109/10956/10961/6



- 175 x 350 x 40 mm
- 6 pieces



Code	g	g
96838181	1605	

No	Content
10956	∅ 35 mm
10961	500 g
102	175 mm
108	150 x 6; 175 x 6 mm
109	size 6; 100 x 3.4 mm

TCS 102-108/11



- 175 x 350 x 33 mm
- 11 pieces



Code	g	g
96838754	1665	

No	Content
102	150; 200; 250 mm
105	120 x 10; 120 x 12 mm
108	150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm

TCS 102-108/10959/10961 MF



- 530 x 350 x 40 mm
- 12 pieces



Code	g	g
96830355	3343	

No	Content
102	200 mm
103	150 mm
105	120 x 10 mm
108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
10959	∅ 40 mm
10961	500; 800 g
12718	

TCS 102-108/10959/12718/13



TCS



- 530 x 350 x 40 mm
- 13 pieces

Code	g
96830226	3730

No	Content
102	200 mm
103	150 mm
105	120 x 10 mm
108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8; 200 x 8 mm
10959	∅ 40 mm
10961	500; 800 g
12718	

TCS 102-108/10961/10



TCS



- 175 x 350 x 40 mm
- 10 pieces

Code	g
96830361	1569

No	Content
102	200 mm
105	120 x 12 mm
108	115 x 2; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 175 x 4; 200 x 8 mm
10961	500 g

TCS 102-108/10959/10961/13



TCS



- 530 x 350 x 60 mm
- 13 pieces

Code	g
96830177	5800

No	Content
102	200; 300 mm
103	175 mm
105	120 x 12 mm
108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
10959	∅ 50 mm
10961	500; 800; 1000 g

TCS 102-108/10959/10961/16



TCS



- 530 x 350 x 45 mm
- 16 pieces

Code	g
96830609	3715

No	Content
102	200 mm
103	150 mm
105	120 x 10 mm
108	150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
10959	∅ 40 mm
10961	500 g
12373	
12600	500 g
12718	
12935/3	3 m
65642250	250 mm
39Pkw	400 mm

TCS 102-108/10956/10961/18



TCS



- 530 x 350 x 55 mm
- 18 pieces

Code	g
96830620	3653

No	Content
102	150 mm
103	150 mm
105	120 x 10 mm
108	150 x 2.5; 150 x 3; 150 x 4; 150 x 5; 150 x 6; 150 x 8 mm
10956	∅ 50 mm
10961	300; 500 g
10672	20 x 315 mm
12374	
12900N	150 mm/6"
12965N	

Tube tools, other tools

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	Blade mm	L mm	g	Icon
77593000	6 x 100	215	137	1

10758 Round-shank 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	Blade mm	L mm	g	Icon
77592000	6 x 100	215	82	1

10669 Fine scraper

- three-sided hollow-profile scraper with black plastic protective cap
- black plastic handle



Code	Blade mm	L mm	g	Icon
72060100	25 x 8	147	28	5

10670 Three square engineers scrapers

- special steel



Code	L mm	g	Icon
72063101	210	106	5
72063103	260	124	5
72063104	285	140	5
72063105	310	152	5

10672 Flat engineers scrapers

- special steel



Code	Dimensions mm	g	Icon
72053104	20 x 315	227	5
72053105	25 x 365	367	5

10676 Three square engineers bearing scraper

- special steel



Code	Dimensions mm	g	Icon
72083103	85 x 12 x 315	160	5

12025 Engineers file, round

- DIN 8349
- cut 2



Code	L mm	g	Icon
72123100	210	118	5

12030 Engineers file, half round

- DIN 8349
- cut 2



Code	L mm	g	Icon
72133100	260	339	5

12035 Engineers file, three-square

- DIN 8349
- cut 2



Code	L mm	g	Icon
72143100	210	201	5

12036 Engineers file, hand

- DIN 8349
- cut 2



Code	L mm	g	Icon
72173102	260	305	5

12800 Set warding files

Content 6 pieces:

- 1 file each, hand, flat, half round, three square, square, round
- DIN 7283
- in textile bag



Code	L mm	g	Icon
72230001	100	165	5

13100 Set of needle files

Content 6 pieces:

- 1 file each, round, half round, three square, square, hand, flat
- in textile bag



Code	L mm	g	Icon
96722801	140	50	1

12050 Tubular hacksaw

- with blade size 300 mm/12"



Code	L mm	⚖ g	📦
72 21 0000	465	490	1

12050R Spare hacksaw blades for No 12050

- 10 pieces
- H.S. Steel
- 24 teeth per inch

Code	L mm	⚖ g	📦
79 18 0001	300	174	1

ES 10670-13110/11



- 530 x 350 x 35 mm
- 11 pieces

Code	⚖ g
96 83 81 73	2120

No	
10670	265 mm
12025	210 mm
12030	260 mm
12035	210 mm
12036	260 mm
12050	465 mm
12320	
12321	
12377	
12935/3	3 m
13110	300 mm

12053 Hacksaw frame



Code	L mm	⚖ g	📦
72 21 0002	252	159	1

12053R Spare hacksaw blades for No 12053

- 6 pieces
- Chrome Alloy Tool Steel
- 32 teeth per inch

Code	L mm	⚖ g	📦
79 18 0002	158	20	1

TCS 10356-12965/5



TCS



- 175 x 350 x 40 mm
- 5 pieces

Code	⚖ g
96 83 87 90	595

No	
12053	158 mm
10356	40 mm
10356R	10 pieces
12320	
12965	

TCS 11095-13110/8



TCS



- 175 x 350 x 40 mm
- 8 pieces

Code	⚖ g
96 83 87 89	700

No	
12000	ISO
11095/20	0.05 - 1.00 mm
12935/3	3 m
12321	
12322	
12665/52	0.25 - 6 mm
12900N	150 mm/6"
13110	300 mm

Tube tools, other tools

12000 Universal thread restorers

- suitable for inside and outside threads



Code	size	L mm	Δ g	
72100004	ISO	230	115	10
72100003	SAE	230	118	10
72100002	WW	230	122	10

Pitch mm	metr. thread	threads per inch	Whitworth thread	SAE/US threads per inch
0,80	5	24	3/16 + 7/32	24
1,00	6 + 7	20	1/4	20
1,25	8 + 9	18	5/16	18
1,50	10 + 11	16	3/8	16
1,75	12	14	7/16	14
2,00	14 + 16	12	1/2 + 9/16	13
2,50	18, 20, 22	11	5/8 + 11/16	12
3,00	24 + 27	10	3/4 + 13/16	11

TCS 12025-13110/11



TCS



- 530 x 350 x 35 mm
- 11 pieces

Code	Δ g
96838759	2410

No	
12025	210 mm
12030	260 mm
12035	210 mm
12036	260 mm
12050	300 mm
12320	
12321	
12718	
12935/3	3 m
12965N	
13110	300 mm

900 Screw EXTRACTOR

- for left-hand threads



Code	for size bolts	mm	"	L mm	recomm. Drill	Δ g	
71010001	1 M3-M4	1/8-5/32"	3	1/8	49	2 mm 5/64"	3 10
71010002	2 M5-M7	3/16-1/4"	3.4	9/64	54	3 mm 7/64"	6 10
71010003	3 M8	5/16"	4.9	3/16	59	5 mm 3/16"	12 10
71010004	4 M10-M12	3/8-7/16"	7	9/32	65	6.4 mm 1/4"	25 5
71010005	5 M14-M16	1/2-9/16"	9	23/64	88	8 mm 5/16"	50 5
71010006	6 M18-M22	5/8-3/4"	12	31/64	95	12 mm 15/32"	103 5

900/6T Screw EXTRACTOR set

- for left-hand threads
- in textile bag



Code	Content	Δ g	
96710101	1 each No 900 size 1-6	230	1

901 Screw EXTRACTOR

- with centre punch tip
- double-edged



Code	for size bolts	mm	"	L mm	recomm. Drill	Δ g	
71050001	1 M5-M6	3/16-1/4"	6.35	1/4	60	3.2 mm 1/8"	6 1
71050002	2 M8-M10	5/16-3/8"	9.5	3/8	67	4.8 mm 3/16"	16 1
71050003	3 M10-M12	7/16-1/2"	12.7	1/2	75	6.4 mm 1/4"	30 1
71050004	4 M12-M16	1/2-9/16"	15.9	5/8	90	9.5 mm 3/8"	60 1
71050005	5 M16-M20	5/8-3/4"	19	3/4	90	11.1 mm 7/16"	100 1

901/5T Set of screw extractors

- for extracting sheared screws, bolts and stud screws from threaded holes
- suitable for right- hand and left-hand threads
- in textile bag



Code	Δ g	
96710505	248	1

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	Ø	g	
71340000	3/8	346	1

905/25 Stud remover set

- M5-M16, 3/16"-5/8"
- 25 pieces
- 5 HSS twist drills sizes (3.2; 4.8; 6.4; 8; 8.7 mm)
- 5 fluted removal pins sizes 1-5 for threads M5-M16
- 5 splined nuts, sizes 1-5
- 10 drill guides, sizes 1-10
- in black plastic box



Code	g	
96713025	605	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"	5	1
71310002	2	M7-M8 1/4-5/16"	10	1
71310003	3	M10 3/8"	33	1
71310004	4	M12 7/16"	46	1
71310005	5	M14-M16 1/2-9/16"	64	1

12615 Nut splitters

- zinc plated
- mechanical
- for splitting seized or overtightened nuts up to class 8
- does not damage the threaded pin
- as the spindle is tightened, the nutsplitter body has to be locked with an open-jaw spanner to prevent it turning
- cutting chisel made of high-grade alloy tool steel



Code	size	for nuts mm	Max. torque in N·m	g	
71250011	1	10-18	40	193	1
71250012	2	19-27	60	386	1

12665 Screw pitch gauge

- 0.25 to 6 mm and 4 to 62 t.p.i. (metric/Whitworth threads)



Code	size	g	
77270003	52	70	10

12900N Vernier calliper

- as per DIN 862
- vernier readings 1/20 mm and 1/128"
- stainless steel
- in plastic pouch



Code	measuring range mm/"	g	
77371001	150/6	185	1

12900/1N Vernier calliper

- with metal housing cover and metal buttons
- mechanical system made of stainless, hardened steel
- with or without thumb wheel (included in delivery for customer to fit if required)
- large LCD display with clear read-offs, figures 9 mm high
- display accuracy 0.01 mm/ 0.0005"
- measuring tips ground fine and lapped
- ON/OFF button
- with depth gauge
- unit of measure in mm or imperial, zeroing possible at any position
- incl. 2 x 3 V batteries (type CR2032) packaged in accordance with UN 3091, Class 9
- in plastic case



Code	measuring range mm/"	g	
77371002	150/6	312	1

Tube tools, other tools

12900/3 Tyre-tread Vernier gauge

- sturdy brass construction
- smooth ground surface



Code	measuring range mm	△△ g	☐
77371004	30	41	1

12900/4 Electronic tyre-tread Vernier gauge

- large LCD display with clear read-offs, figures 9.5 mm high
- display accuracy 0.01 mm/ 0.0005"
- ON/OFF push button
- unit of measure switchable mm/inch
- zeroing possible in any position
- incl. 1 x 3 V battery (type CR2032) packaged in accordance with UN 3091, Class 9



Code	measuring range mm/"	△△ g	☐
77371005	25/1	60	1

12935 Tape measure

- with tape lock
- metric-inch scales



Code	size	L m	△△ g	☐
77040010	3	3	92	10
77040011	5	5	164	10

13110 Steel rule

- metric-inch scales
- length 300 mm



Code	Divisions Top Edge "	Divisions Lower Edge mm	△△ g	☐
77460001	1/16, 1/32, 1/64	0.5; 1	26	5

12915 Ratchet tap holders

- with ratchet
- steel
- chrome plated



Code	size	Capacity mm	DIN ¹⁾	ISO ²⁾	L mm	△△ g	☐
77390001	1	2.0-5.0	M3-8	M1-6	85	180	1
77390002	2	4.6-8	M5-12	M6-12	110	305	1

¹⁾ for taps DIN
²⁾ for taps ISO

12932 Padlock



Code	△△ g	☐
77210002	85	1

12250 Force feed oil can

- metal container
- brass pump
- Content: 500 ccm



Code	△△ g	☐
77010001	275	1

12251 Plastic oil can

- made of plastic
- Content: 250 ccm



Code	△△ g	☐
77110002	60	5

12320 Electricians cable knife

- with stainless blade



Code	Blade mm	△△ g	☐
77020000	90	78	10

12321 Scribing iron

- with knurled centre-section
- 1 straight and 1 offset blade
- blades gunmetal finished



Code	L mm	△△ g	☐
77100000	250	31	10

12322 Tungsten carbide scribing iron

- straight type
- sturdy shank with tungsten carbide tip
- can be reground
- holder and clip



Code	L mm	△g	g	☐
77 10 0001	150	40	10	

12374 Wire brush

- wood, steel wire dia. 0.35 mm



Code	L mm	Rows	△g	g	☐
77 09 0000	290	4	129	10	

12377 Wire brush

- with brass coated steel bristles



Code	L mm	△g	g	☐
77 09 00 10	270	140	24	

12378 File brush



Code	L mm	△g	g	☐
77 25 0000	260	74	5	

13115 Brass wire brush

- for use on light alloys



Code	L mm	Rows	△g	g	☐
77 47 0001	280	4	134	1	

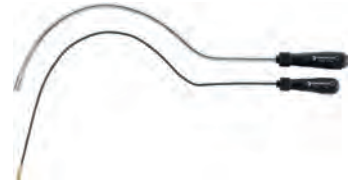
12481 Scraper



Code	L mm	b mm	△g	g	☐
77 07 0000	212	60	65	10	

12600 Magnetic lifters

- loss of adhesion above 80° C



Code	lifting power g	∅ mm	L mm	△g	g	☐
77 26 00 27	270 ¹⁾	5	500	30	1	
77 26 00 25	500	8	460	70	1	
77 26 00 60	1800	15	525	230	1	
77 26 02 00	3000	19	535	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	g	☐
44 01 0001	1	20-42	90	5	
44 01 0002	2	45-90	245	5	
44 01 0003	3	95-165	686	5	

12920N Telescopic mirror

- with non-twisting, oval-section telescopic rod



Code	dimensions mirrors mm	L mm	△g	g	☐
77 40 1001	65 x 43	310-750	65	1	

12920NR-1 Replacement mirror for No 12920N

Code	△g	g	☐
79 40 1001	39	1	

12920NR-2 Stainless steel replacement mirror for No 12920N

Code	△g	g	☐
79 40 1002	43	1	

12921M Telescopic stainless steel mirror

- unbreakable mirrors made of stainless steel (prevents FOD)
- no bolted joints (prevents FOD)
- rust-proof stainless steel telescopic arm
- universal joint (180° action), self-tensioning
- special plastic handle ensures a firm grip and safe working, resistant to chemicals



Code	size	mm	L mm	△g	g	☐
77 40 10 32	1 1/4"/32 mm	∅ 32	171-699	60	1	
77 40 10 45	1 3/4" x 2 3/4"/45 x 70 mm	∅ 45 x 70	178-927	76	1	
77 40 10 57	2 1/4"/57 mm	∅ 57	178-921	70	1	

Tube tools, other tools

12921N Telescopic mirrors



Code	∅ mm	L mm	⚖ g	📦
7740 1030	30	265-705	108	1
7740 1040	40	275-715	115	1
7740 1050	50	285-725	110	1
7740 1060	60	295-735	130	1

12921NR Replacement mirror for 12921N

Code	∅ mm	⚖ g	📦
7940 1030	30	10	1
7940 1040	40	15	1
7940 1050	50	20	1
7940 1060	60	27	1

13120N Telescopic mirror

- illuminated (LED) and with batteries (approx. 150 hours of light)
- for inspecting numerous kinds of joints
- the LED light source can be detached and used as a separate penlight
- the concave mirror provides 5-times magnification
- with non-twisting, oval-section telescopic rod



Code	∅ mm	L mm	⚖ g	📦
77480002	55	310-750	235	1

13120R Replacement concave mirror for No 13120N, No 13120-1

Code	∅ mm	⚖ g	📦
7940 1055	55	22	1

12922E Claw lifter

- with ergonomic handle



Code	∅ mm	L mm	⚖ g	📦
7740 1103	6	540	113	1
7740 7203	8	540	148	1

12965N Safety knife

- blade adjustable by means of slider
- spare blades can be stored inside the handle
- blade changes without tools
- with hanging hole
- ideally suited for cutting card, rubber, leather, wood etc.
- tool body made of cast zinc



Code	L mm	⚖ g	📦
7762 1001	174	200	1

12965-1 Self-retracting cutter

- with automatic blade retraction
- spare blades can be stored inside the handle
- blade changes without tools
- with hanging hole
- ideally suited for cutting card, rubber, leather, wood etc.
- tool body made of cast zinc



Code	L mm	⚖ g	📦
7762 1002	174	197	1

12965R Spare blades

- 5 pieces
- for No 12965N, 12965-1



Code	⚖ g	📦
79250001	25	1

12965-2 Snap-off blade cutter 9 mm

- with three 9 mm snap-off blades (one blade fitted, two in the magazine)
- slider with blade-locking function
- includes blade snap-off tool and protective cap
- with stainless steel blade guide
- ideally suited for cutting card, rubber, leather, wood etc.
- tool body made of cast zinc



Code	L mm	⚖ g	📦
7762 1003	145	60	1

12965-2R Spare blades 9 mm

- 10 pieces
- für No 12965-2



Code	⚖ g	📦
7925 1003	26	1

12965-3 Snap-off blade cutter 18 mm

- with three 18 mm snap-off blades (one blade fitted, two in the magazine)
- slider with blade-locking function
- automatic blade reloading
- ergonomic design with synthetic caoutchouc inlay
- with stainless steel blade guide and hanging hole
- ideally suited for cutting card, rubber, leather, wood etc.
- tool body made of cast zinc



Code	L mm	⚖ g	📦
7762 1004	168	249	1

12965-3R Spare blades 18 mm

- 10 pieces
- for No 12965-3



Code	g	g	g
79 25 1004	75	10	

12967 Wire stripping knife with hooked blade

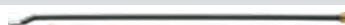


- for cutting round the outer cable insulation and longitudinal cuts
- accurate, fast and safe stripping of all popular round cables from 4-28 mm ϕ
- no damage to the inner conductors thanks to infinitely variable adjustment of the cutting depth



Code	g	g	g
77 62 00 10	82	1	

12967R Spare blade for No 12967



Code	g	g	g
79 25 00 10	2	1	

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	g	g
77 45 00 01	1	3.5	190	37	10

13000-13003 Hooks and picks

- universally applicable for punching holes in soft materials, fitting and removing small components such as simmerring seals and O-rings, seals, trim strip clips and panelling



Code	No	L mm	Model	g	g
77 10 10 00	13000	155	straight	22	5
77 10 10 01	13001	155	45°	22	5
77 10 10 02	13002	155	90°	22	5
77 10 10 03	13003	155	rounded	24	5

13000/4 Set of hooks and picks

NEW

- Content: No 13000 (straight), 13001 (45°), 13002 (90°), 13003 (round)
- universally applicable for punching holes in soft materials, fitting and removing small components such as simmerring seals and O-rings, seals, trim strip clips and panelling
- in textile bag



Code	L mm	g	g
96 72 28 02	165	144	1

13009 Split-pin puller

NEW



Code	L mm	g	g
77 10 10 10	265	138	5

13126-1 LED torch

Ex

- ex-rated for zone 1
- Certifications: SEV 08 ATEX 0164, II 2G Ex e ib IIC T4, II 2D Ex e ibD 21 T98°C
- powerful, extremely durable 2 watt LEDs
- robust, electrically non-conducting, corrosion-proof housing made of ABS/polycarbonate
- high impact resistance and reduced glare thanks to rubber sheathed bezel
- consistently bright beam throughout 80% of the lifetime of the alkaline batteries due to eLED circuitry
- zoom with a twist of the bezel
- rubberised front pushbutton for continuous or momentary action
- waterproof to IP 68 down to 3 m depth of water
- hydrogen scrubber catalyst, polarised battery contacts and 0-psi vent minimize explosive risk from leaking batteries
- battery compartment designed to facilitate rapid battery change
- Brightness: 250 lumen
- Range: 100 m
- Burn time: 5 hrs.
- Batteries: 4 AA/LR06, alkaline, 1.5 V (not supplied)



Code	Dimensions mm	g	g
77 49 00 11	170 x 40 x 35	79	1

Tube tools, other tools

13126-2 LED penlight

Ex

- ex-rated for zone 1
- Certifications: II 2G Ex e ib IIB T4 Gb, II 2D Ex ib IIIC T60°C IP6X Db
- three times brighter than conventional pen torches thanks to powerful LEDs
- robust, electrically non-conducting, corrosion-proof housing made of ABS/polycarbonate
- high impact resistance and reduced glare thanks to rubber sheathed bezel
- consistently bright beam throughout 80% of the lifetime of the alkaline batteries due to eLED circuitry
- rubberised rear pushbutton for continuous or momentary action
- easy storage due to integrated clip holder close to bezel
- waterproof to IP 68 down to 3 m depth of water
- Brightness: 35 lumen
- Range: 64 m
- Burn time: 3 hrs.
- Batteries: 2 AAA/LR03, alkaline, 1.5 V (not supplied)



Code	Dimensions mm	g	Box
77490012	132 x 24 x 22	20	1

13126-3 LED headlamp

Ex

- ex-rated for zone 1
- Certifications: SEV 08 ATEX 0163X, II 2G Ex ib IIC T4, II 2D Ex ibD 21 T55°C
- waterproof construction for use in all weather conditions
- three beam modes - white spot, white diffused and red diffused
- high and low power settings
- large-format ON/OFF button can be easily operated even when wearing heavy gloves
- LED torch module can be removed from housing and used as stand-alone portable working torch
- beam adjustable using twist knob - no breakable hinges
- with adjustable, elasticated textile strap
- durable, high-impact construction made of ABS/polycarbonate
- waterproof to IP 68 down to 10 m depth of water
- Brightness: 65 lumen
- Range: 60 m
- Burn time: 13 hrs.
- Batteries: 3 AAA/LR03, alkaline, 1.5 V (not supplied)



Torch module

Code	Dimensions mm	g	Box
77490013	76 x 38 x 45	81	1

13128 LED torch

- high-end power LED
- fast adjustment of light beam thanks to single-handed zoom action
- switch with textured profile for 2-stage steady light or flash-light function
- designed to facilitate rapid battery change
- convenient belt-mounted holder with Velcro fastener
- Brightness: 320 lumen
- Range: 260 m
- Burn time: 50 hrs.
- Batteries: 4 batteries, AAA/LR03, 1.5 V



Code	Dimensions mm	g	Box
77490004	130 x 37 x 37	250	1

13130 Tweezers

- straight
- blunt
- finely milled inside
- stainless steel



Code	L mm	g	Box
77500001	160	26	5

13131 Tweezers

- bent
- blunt
- finely milled inside
- stainless steel



Code	L mm	g	Box
77510001	155	30	5

13148 Wire cutter

- for cutting cables, brass, copper, aluminium
- strain-free working thanks to comfy-fit 2-component handle with finger rest
- cutting edges made of stainless steel (INOX HRC 56)
- one wavy/saw edge



Code	L mm	g	Box
75270002	150	93	1





9 NON-SPARKING TOOLS

Spanners

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Sockets and drive parts

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Screwdrivers

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Pliers & wrenches

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Hammers

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Chisels & punches

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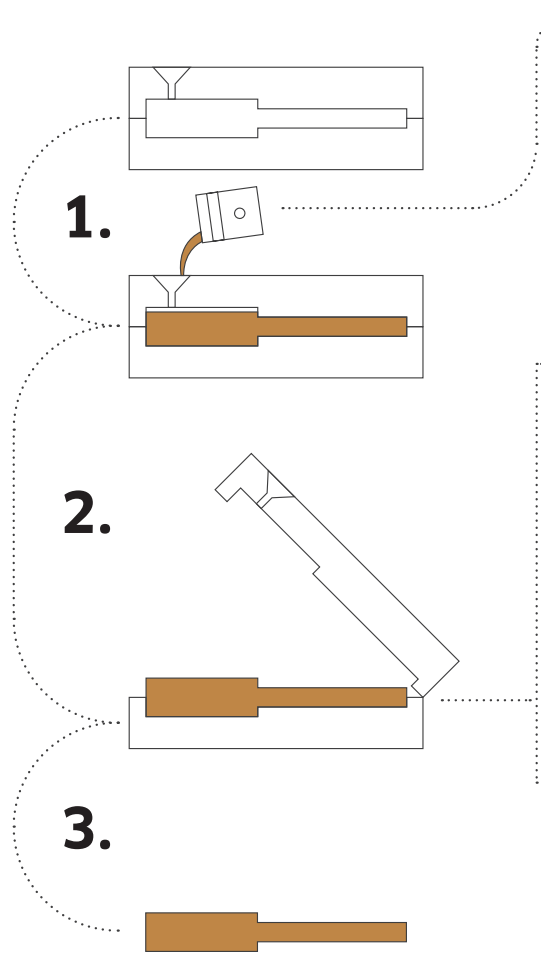
Safety in explosive hazard zones. **Non-sparking tools.**



All the non-sparking tools offered by STAHLWILLE are produced in Germany and meet the highest demands in terms of processing quality, service life and ergonomics. Nevertheless, special care is required when using these tools.

Aluminium bronze and copper beryllium have certain common properties that make them ideal for the manufacture of non-sparking tools: in contrast to conventional steel, they are non-magnetic or only slightly magnetic. They are also much softer than steel alloys, which considerably reduces the risk of breakage in the event of overloading, as well as the risk of sparking in the event of slipping or being dropped.





The casting process

In stark contrast to the methods usually employed by STAHLWILLE, non-sparking tools are not forged but cast in one of two special-purpose, non-sparking alloys.

Aluminium bronze (AlBr)

This alloy can be recognised by its yellowish colour and is used in the production of spanners and impact tools, in particular. It consists of approx. 90% copper and a number of other metals (aluminium, nickel, iron and manganese).

Copper beryllium (CuBe) *

This material has a reddish tinge. It is harder than aluminium bronze and is used for the production of tools that are exposed to defined mechanical loads at specific points – such as pliers, ratchets and screwdrivers. The maximum amount of beryllium used in the alloy is 2%.

* also referred to as spring copper.

HIGH-GRADE.

Premium quality »Made in Germany«, of course.

TOUGH.

As a result of the casting process, the risk of tool breakage when in use is minimised.

FLEXIBLE.

From the spanner to the ratchet – the range always offers the most appropriate tool.



ATEX COMPLIANT.

Non-sparking tools from STAHLWILLE are approved for use in explosive atmospheres.

DURABLE.

Optimised service life thanks to specially matched alloys.

Non-sparking tools

6210a Double-ended open-jaw spanners



Code	⌀ "	L mm	Alloy	⚖ g	📦
62 49 16 20	1/4 x 5/16	125	AlBr	65	1
62 49 24 28	3/8 x 7/16	140	AlBr	90	1
62 49 28 32	7/16 x 1/2	140	AlBr	85	1
62 49 32 34	1/2 x 9/16	160	AlBr	170	1
62 49 34 36	9/16 x 5/8	200	AlBr	220	1
62 49 36 38	5/8 x 11/16	200	AlBr	200	1
62 49 40 44	3/4 x 7/8	225	AlBr	300	1
62 49 41 42	25/32 x 13/16	225	AlBr	300	1
62 49 44 46	7/8 x 15/16	225	AlBr	300	1
62 49 46 48	15/16 x 1	270	AlBr	720	1

624025 Single-ended open-jaw spanners



Code	⌀ max. mm	L mm	Alloy	⚖ g	📦
62 40 25 01	18	150	CuBe	100	1
62 40 25 02	26	200	CuBe	200	1
62 40 25 03	30	250	CuBe	400	1
62 40 25 04	36	300	CuBe	700	1
62 40 25 05	46	380	CuBe	1400	1
62 40 25 06	53	450	CuBe	2700	1
62 40 25 07	67	600	CuBe	5100	1

6213a Combination spanners



Code	⌀ "	L mm	Alloy	⚖ g	📦
62 08 12 12	3/16	90	AlBr	30	1
62 08 14 14	7/32	90	AlBr	30	1
62 08 16 16	1/4	135	AlBr	45	1
62 08 18 18	9/32	135	AlBr	34	1
62 08 20 20	5/16	135	AlBr	45	1
62 08 22 22	11/32	155	AlBr	60	1
62 08 24 24	3/8	155	AlBr	60	1
62 08 28 28	7/16	155	AlBr	60	1
62 08 32 32	1/2	190	AlBr	110	1
62 08 34 34	9/16	190	AlBr	110	1
62 08 36 36	5/8	210	AlBr	200	1
62 08 38 38	11/16	230	AlBr	230	1
62 08 40 40	3/4	230	AlBr	230	1
62 08 42 42	13/16	250	AlBr	300	1
62 08 44 44	7/8	250	AlBr	300	1
62 08 46 46	15/16	270	AlBr	410	1
62 08 48 48	1	270	AlBr	410	1

62523 Ratchet, 3/8"



Code	L mm	Alloy	⚖ g	📦
62 52 30 00	200	CuBe	370	1

62427 Extensions, 3/8"



Code	L mm	Alloy	⚖ g	📦
62 42 70 00	50	AlBr	50	1
62 42 70 01	125	AlBr	105	1
62 42 70 02	250	AlBr	217	1

62424 Jointed handle, 3/8"



Code	L mm	Alloy	⚖ g	📦
62 42 40 00	250	AlBr	254	1

62425 Sliding T-handle, 3/8"



Code	L mm	Alloy	⚖ g	📦
62 42 50 00	160	AlBr	132	1

62500 Drive handle, 3/8"



Code	L mm	Alloy	⚖ g	📦
62 50 00 00	210	AlBr	160	1

62456a Sockets, 3/8"


Code	"	L mm	Alloy	⚖ g	
62 45 60 24	3/8	32	AlBr	19	1
62 45 60 28	7/16	32	AlBr	20	1
62 45 60 32	1/2	32	AlBr	20	1
62 45 60 34	9/16	32	AlBr	27	1
62 45 60 36	5/8	32	AlBr	37	1
62 45 60 38	11/16	32	AlBr	40	1
62 45 60 40	3/4	32	AlBr	47	1
62 45 60 44	7/8	32	AlBr	70	1

62432 Adapter, 3/8" inner to 1/2" outer


Code	L mm	Alloy	⚖ g	
62 43 20 00	35	AlBr	34	1

62431 Adapter, 3/8" inner to 1/4" outer


Code	L mm	Alloy	⚖ g	
62 43 10 00	29	AlBr	29	1

62428 Universal joint, 3/8"


Code	L mm	Alloy	⚖ g	
62 42 80 00	60	AlBr	75	1

6252a Sockets, 1/2"


Code	"	L mm	Alloy	⚖ g	
62 52 01 24	3/8	40	AlBr	50	1
62 52 01 28	7/16	40	AlBr	50	1
62 52 01 32	1/2	40	AlBr	50	1
62 52 01 34	9/16	40	AlBr	55	1
62 52 01 36	5/8	40	AlBr	60	1
62 52 01 38	11/16	40	AlBr	65	1
62 52 01 40	3/4	42	AlBr	85	1
62 52 01 42	13/16	43	AlBr	95	1
62 52 01 44	7/8	43	AlBr	110	1
62 52 01 46	15/16	43	AlBr	120	1
62 52 01 48	1	43	AlBr	130	1
62 52 01 50	1 1/16	46	AlBr	150	1
62 52 01 56	1 1/4	46	AlBr	240	1

62623 Ratchet, 1/2"


Code	L mm	Alloy	⚖ g	
62 62 30 00	250	CuBe	590	1

62509 Extensions, 1/2"


Code	L mm	Alloy	⚖ g	
62 50 90 00	100	AlBr	180	1
62 50 90 01	200	AlBr	315	1
62 50 90 02	250	AlBr	360	1

62504 Jointed handles, 1/2"


Code	L mm	Alloy	⚖ g	
62 50 40 00	250	AlBr	460	1
62 50 40 01	380	AlBr	590	1

Non-sparking tools

62506 Sliding T-handle, 1/2"



Code	L mm	Alloy	⚖️ g	📦
62 50 60 00	250	AlBr	450	1

62513 Adapter, 1/2" inner to 3/4" outer



Code	L mm	Alloy	⚖️ g	📦
62 51 30 00	50	AlBr	120	1

62514 Adapter, 1/2" inner to 3/8" outer



Code	L mm	Alloy	⚖️ g	📦
62 51 40 00	34	AlBr	70	1

62510 Universal joint, 1/2"



Code	L mm	Alloy	⚖️ g	📦
62 51 00 00	80	AlBr	135	1

62511 T-extension, 1/2"



Code	L mm	Alloy	⚖️ g	📦
62 51 10 00	245	AlBr	500	1

6246 Flat-bladed screwdrivers



Code	b mm	L mm	Alloy	⚖️ g	📦
62 46 00 01	3	75	CuBe	30	1
62 46 00 02	4.5	100	CuBe	55	1
62 46 00 04	6	100	CuBe	80	1
62 46 00 06	8	150	CuBe	145	1
62 46 00 07	10	200	CuBe	185	1
62 46 00 08	10	300	CuBe	230	1

6247 Cruciform-tip screwdrivers



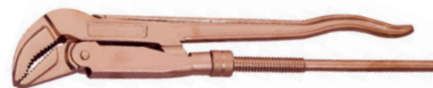
Code	PH	L mm	Alloy	⚖️ g	📦
62 47 00 10	1	80	CuBe	60	1
62 47 00 20	2	100	CuBe	90	1
62 47 00 30	3	150	CuBe	165	1

626558 Stillson wrenches, adjustable



Code	⌀ max. "	L mm	Alloy	⚖️ g	📦
62 65 58 01	1 1/2	385	AlBr	1370	1
62 65 58 03	2 1/2	625	AlBr	4050	1
62 65 58 04	3 1/2	850	AlBr	7350	1

626549 Corner pipe wrenches



Code	⌀ max. "	L mm	Alloy	⚖️ g	📦
62 65 49 00	1	320	CuBe	820	1
62 65 49 01	1 1/2	430	CuBe	1570	1
62 65 49 02	2	540	CuBe	3200	1

626501 Combination pliers



Code	L mm	Alloy	⚖ g	📦
62 65 01 60	160	CuBe	350	1
62 65 02 00	200	CuBe	425	1

626600 Side-cutters



Code	L mm	Alloy	⚖ g	📦
62 66 01 65	165	CuBe	200	1

626551 Slip-joint pliers



Code	🗂 max. mm	L mm	Alloy	⚖ g	📦
62 65 52 50	30	250	CuBe	370	1

6213148 Work scissors



Code	L mm	Alloy	⚖ g	📦
62 13 14 80	220	CuBe	225	1

6210960 Engineer's hammers



Code	Alloy	⚖ g	📦
62 10 96 01	AlBr	300	1
62 10 96 02	AlBr	500	1

6210941 Sledge hammers



Code	Alloy	⚖ g	📦
62 10 94 11	AlBr	3000	1
62 10 94 12	AlBr	5000	1

6210942 Club hammers



Code	Alloy	⚖ g	📦
62 10 94 21	AlBr	1000	1
62 10 94 22	AlBr	1500	1
62 10 94 23	AlBr	2000	1

62102 Flat cold chisels



Code	Cutting edge mm	Alloy	⚖ g	📦
62 10 21 50	20	AlBr	200	1
62 10 22 00	25	AlBr	320	1
62 10 22 50	25	AlBr	550	1
62 10 23 00	25	AlBr	560	1

62104 Drift punches



Code	s mm	d mm	L mm	Alloy	⚖ g	📦
62 10 40 02	2	8	120	AlBr	35	1
62 10 40 03	3	8	120	AlBr	35	1
62 10 40 04	4	8	120	AlBr	40	1
62 10 40 05	5	10	120	AlBr	60	1
62 10 40 06	6	10	120	AlBr	60	1
62 10 40 08	8	12	120	AlBr	65	1

62108 Pin punches



Code	s mm	d mm	L mm	Alloy	⚖ g	📦
62 10 80 01	2	10	110	AlBr	50	1
62 10 80 02	3	10	110	AlBr	45	1
62 10 82 03	4	10	120	AlBr	50	1
62 10 82 04	5	10	130	AlBr	50	1
62 10 82 05	6	10	140	AlBr	60	1
62 10 82 06	8	12	150	AlBr	100	1



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