2026 / 2027 CATALOGUE



MADE IN CRONENBERG
MADE IN GERMANY

TOOLS THAT ... inspire

STAHLWILLE®



Vera Bökenbrink
Managing Director

Udo Hehemann
Executive Board |
Head of Sales and Marketing

Powerful performance. Future-oriented.

STAHLWILLE is an impressive success story that unites tradition and innovation in a unique way. For over 160 years, as a medium-sized company, we have always had our customers' needs in mind and developed the best solutions of our time. This is how we have evolved from a tool manufacturer nestled in the mountains, to an international champion of innovation in the field of hand-held tools.

As a full-range tool supplier, we offer everything professional users need in almost every field of application and industry. From classic spanners to modern tool storage and transport solutions, from high-tech electronic torque tools for connected Industry 4.0 environments to testing and calibration technology that is state-of-the-art in every respect.

With our contemporary and forward-looking portfolio, we enable our customers to deliver outstanding work. Precise, fast and safe. In production, repair and maintenance. Every single day. All over the world.

We place high demands on ourselves: Our professional tools for trades and industry stand for quality that sets standards and impress with ergonomics and durability that leave nothing to be desired. This is possible because almost all of our value creation takes place "in-house": 95% production depth and a clear commitment to our German location leave no doubt that we will live up to what the "Made in Germany" quality seal promises.

Tools that inspire!

Yours
Vera Bökenbrink



Yours
Udo Hehemann



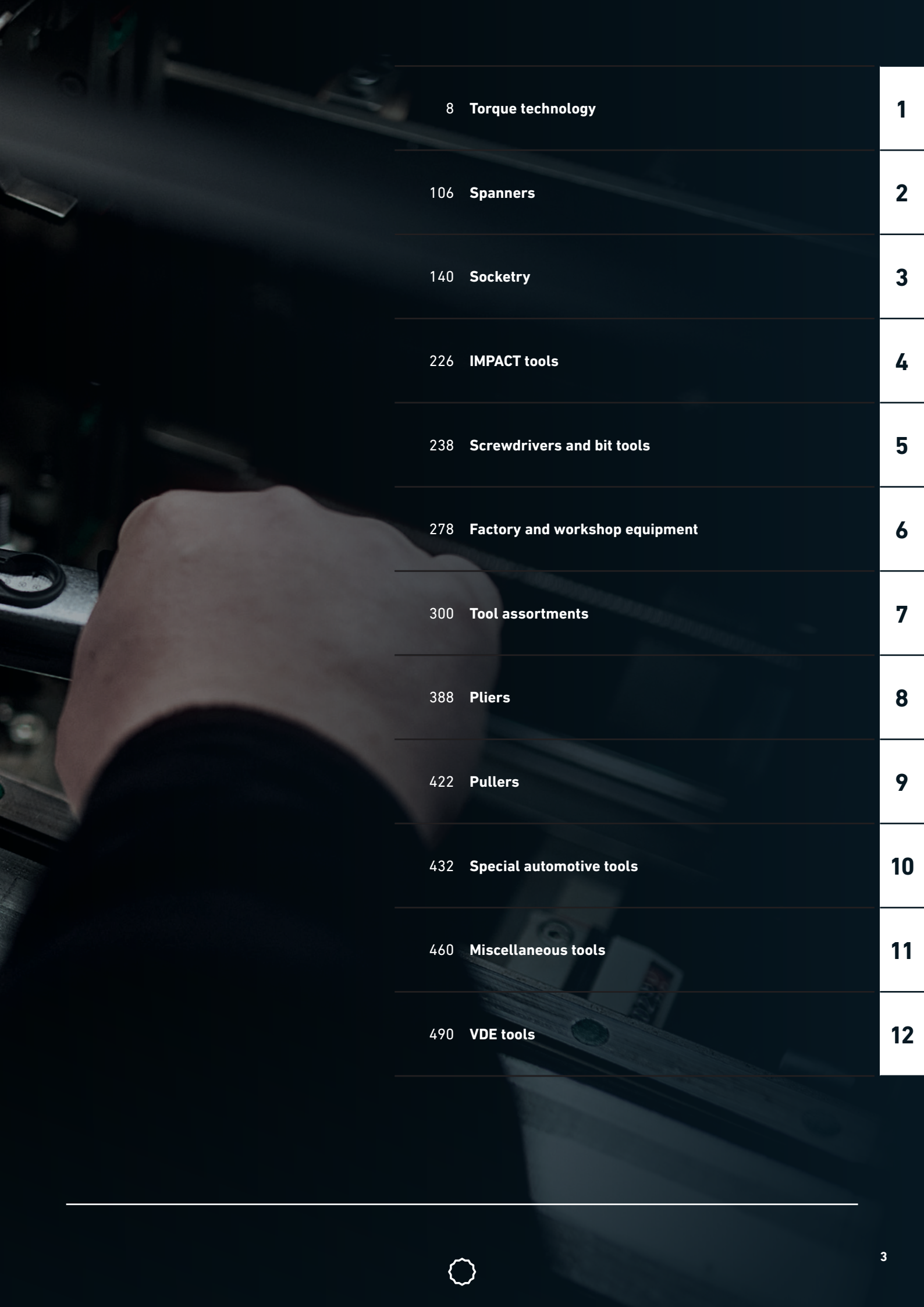
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Always well informed – with the STAHLWILLE website.

The STAHLWILLE website offers comprehensive information on products and many additional resources, such as our whitepapers on torque technology or exclusive behind-the-scenes views of certain areas of application.

www.stahlwille.com



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MADE IN CRONENBERG. Made in Germany. Our commitment to our home location and uncompromising premium quality.



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MADE IN GERMANY

Made in Germany.

At STAHLWILLE, we develop and manufacture innovative premium-quality hand tools – Made in Germany. The products in our portfolio deliver outstanding performance and are designed for professional use and a long service life. And should something ever go wrong, we place particular emphasis on ensuring that our tools can be repaired – even many years after purchase.

At home all over the world.

Professional users in industry and the skilled trades around the world rely on the quality and performance of our tools and tool storage solutions. In countless projects across the globe, STAHLWILLE continues to demonstrate its expertise as a project partner and its reliability as a supplier.

STAHLWILLE GROUP

STAHLWILLE | VBW | ALARM

The STAHLWILLE Group

The STAHLWILLE Group brings together the STAHLWILLE, VBW and ALARM brands under one roof: three long-established and successful companies with a wealth of combined experience, united by their passion for high-quality tools and their strong focus on customer needs.

Our expertise.

We combine our unique heritage with state-of-the-art expertise. Thanks to our many years of experience, we understand the different demands our customers place on their tools – across a wide range of industries. This enables us to continuously develop our products and tailor them precisely to the needs of professional users. Over time, we have evolved from a traditional hand tool manufacturer into an innovative solutions provider.



Certified to multiple standards

We are certified in accordance with the ISO 14001:2015 environmental management standard, the ISO 9001:2015 quality management standard and the ISO 50001:2018 energy management standard. In addition, our production operations comply with the requirements of the European environmental management standard EMAS.

As part of our energy management system, we record and evaluate energy consumption, identify potential savings and implement measures to continuously improve energy efficiency.

PROGRESS STARTS WITH CONCRETE STEPS.

Responsible action is firmly embedded in STAHLWILLE's operational processes. We take social, ethical and environmental requirements into account in our policies and procedures and continuously develop them further. This includes defined requirements relating to working conditions, ethics and environmental management, as well as specific measures in the areas of energy, material use and production.

Our sustainability policy brings together the key principles for responsible and sustainable action. It provides a clear framework and translates our commitment into specific requirements for day-to-day operations.

Resources and the environment.

STAHLWILLE implements measures to reduce energy consumption. We record the resulting changes in CO_2 savings on the basis of defined calculation methods.

We are also working to reduce the use of plastic in our packaging. Wherever technically and functionally possible, we avoid plastic packaging and instead use paper-based materials such as solid board or recycled paper. Where plastic is required, we use materials with recycled content wherever these are available and technically suitable.

Certified management systems.

STAHLWILLE operates certified management systems in accordance with ISO 9001:2015 (quality management), ISO 50001:2018 (energy management) and ISO 14001:2015 (environmental management). Regular audits are carried out to verify compliance with the respective requirements of these standards.



Production in Germany.

A significant proportion of our production takes place at our sites in Germany. Our tools are designed for professional use and a long service life. As early as the product development stage, we take aspects such as repairability and the availability of spare parts into account. For many of our tools, we continue to provide spare parts and repair kits beyond the statutory periods.

Ethical conduct.

Our Code of Conduct provides guidance for our day-to-day actions and reflects the values and principles of the STAHLWILLE Group. It applies throughout the STAHLWILLE Group and also defines the framework for cooperation with our business partners.

The Code of Conduct sets out policies and requirements in areas including working conditions, ethics, and compliance, thereby creating a binding framework for the way we act and work together.

Technical development.

We continue to develop our products and production processes in line with the applicable environmental and safety requirements. One current example is the gradual transition from chromium VI to chromium III.


STAHLWILLE
MANOSKOP® 714/10
MADE IN CRONENBERG
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1 Torque technology



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TORQUE TECHNOLOGY – We are your one-stop-shop for torque tools.

With increasing demands on the quality, safety and reproducibility of bolted joints, controlled bolt tightening is becoming increasingly important. STAHLWILLE is one of the world's leading torque specialists and has been developing "Made in Germany" torque solutions characterised by precision and durability for decades. Everything from a single source: In addition to torque and angle-controlled torque wrenches, our portfolio also includes torque testers and calibration systems that set standards time and time again.

Torque screwdrivers and torque wrenches.

The STAHLWILLE product range spans torque screwdrivers to mechanical, electromechanical or electronic torque/angle-controlled torque wrenches, to networkable torque tools with various interfaces.



Calibration technology.

As a world-renowned torque expert we offer a particularly broad portfolio of calibration systems. With the mechanical and motorised calibration systems from STAHLWILLE, torque tools are calibrated quickly and efficiently to established industry standards.



Testing technology.

In addition to their scheduled calibrations, torque tools should also be tested regularly for function and accuracy. This is the only way to ensure that the tools work exactly within the specification. With our SmartCheck, we offer an excellent solution for in-house testing, among other things.



TORQUE

DAPTIQ® TORQUE TECHNOLOGY – simply networked. Perfectly integrated.

Controlled bolt tightening is becoming increasingly important in production and maintenance. The same applies to the necessity to document bolted joints and bolting parameters. DAPTIQ® products offer the optimal solution: They can be integrated into existing leading systems without complex programming, or can be used with the GuideMaster software developed by STAHLWILLE. In both cases, they guarantee ease of use for the worker, shorter training times, increased process quality, and the reduction of time-consuming reworking or recalls.



MANOSKOP® 766 DAPTIQ® – short training time and high process reliability.

The electromechanical angle-controlled torque wrench MANOSKOP® 766 DAPTIQ® can exchange data bidirectionally and receive and execute instructions. The interface is implemented via cabled connection, radio (ISM), Bluetooth or WLAN. The familiar feeling of a mechanical click reduces operating errors and thus the error rate. Last but not least, automatic documentation of data is made possible in conjunction with the central systems.

https://stahlwille.com/en_gb/loesungen/daptiq/9f291d6d

DAPTIQ



In-house testing and calibration.

SmartCheck DAPTIQ® allows users to check their torque or angle-controlled torque wrenches in-house. This makes it possible to ensure that the tools operate reliably within the specified tolerance range before starting work. The SmartCheck DAPTIQ® offers an open interface for integration, such as in CAQ systems. This can be done either wirelessly via a Bluetooth module or via the USB interface.

With **perfectControl DAPTIQ®**, STAHLWILLE offers a calibration system that can calibrate torque wrenches and angle-controlled torque wrenches automatically, depending on the version. The user is guided through the entire test process by software. Electronic wrenches can be calibrated fully automatically for the most part. Once calibration is complete, the corresponding data is available to the higher-level Computer Aided Quality (CAQ) system for documentation.

INTELLIGENT TOOLS, SMART WORKFLOW – Software solutions from STAHLWILLE.

Be it the setup and parametrization of torque wrenches, digital tool management, test equipment monitoring or documentation of work processes: STAHLWILLE software enables work processes to be optimised completely intuitively and the highest quality standards to be complied with.



Comprehensive.

With the SensoMaster software, we are providing a centralised PC tool for reading out and configuring all electronic STAHLWILLE torque wrenches. The software detects the tool automatically and synchronises the bolted joints and sequences configured on the PC, as well as the work data and results that are stored on the tool.

Self-explanatory.

The software is self-explanatory thanks to its intuitive user interface with a clear tabular structure. It enables quick and easy programming of electronic torque wrenches and extensive evaluation, as part of a quality assurance strategy for example.

SensoMaster Live

SensoMaster Live enables the torque and angle of rotation to be displayed graphically on a PC in real time. Multiple tightenings can be displayed at the same time for comparison. The data can be saved in a CSV file and be imported again when required.

SOFTWARE



BluetoothMaster.

BluetoothMaster offers a quick, easy and intuitive pairing process. Using BluetoothMaster and the corresponding Bluetooth Low Energy Module, the torque wrenches MANOSKOP® 714 and MANOSKOP® 766 DAPTIQ® and the tester SmartCheck DAPTIQ® can be connected seamlessly to SensoMaster, GuideMaster and CheckMaster. Users can choose between three different modes of communication: TCP/IP, direct connection or Com-Port connection.

TorkMaster.

TorkMaster enables easy calibration of torque wrenches and screwdrivers in accordance with DIN EN ISO 6789, with little required on the part of the user. Loading curves and the measured values are graphically displayed, and calibration certificates are printed and/or saved as a PDF. A separate calibration history can be created for each tool.

In addition to the calibration, a tool-related machine capability test (MCT) is also possible.

CheckMaster.

With the help of the CheckMaster software, test data can be read out of the tester for documentation purposes, test certificates created and the basic settings of the SmartCheck tester changed easily.
A customer database can be created for this purpose and managed conveniently on the PC.



Discover the MySTAHLWILLE service portal.

In your own personal MySTAHLWILLE portal, you have access to software and firmware, 3D product data, and numerous other services.
service.stahlwille.com

TORQUE TECHNOLOGY PRODUCT OVERVIEW.

N

Torque screwdrivers

Category	Measuring range cN·m	Type		
Mechanical/Electromechanical	0 50 150 300 500 650 800 1.000	Electromechanical	Mechanical	Page
775	2 – 1.000 cN·m		○	21
760	15 – 600 cN·m		○	20
TORSIOTRONIC®	12 – 1.000 cN·m	○		22

Torque wrenches

Category	Measuring range N·m	Feedback type		Insert system		
Mechanical	0 50 150 300 500 650 800 1.000	Indicating	Clicking	Fixed	Interchangeable	Page
730 Quick	2 – 650 N·m		○		○	28–30
730/80	160 – 800 N·m		○		○	30
721 Quick	6 – 300 N·m		○	○		31
720Nf	160 – 800 N·m		○	○		32
721Nf	160 – 1.000 N·m		○	○		32
730N	4 – 1.000 N·m		○		○	33–35
730 Fix	10 – 1.000 N·m		○		○	35, 36
750NR	10 – 400 N·m		○	○		37
755	1.5 – 300 N·m		○	○*	○	27
71	160 – 800 N·m	○		○**	○	26
73Nm/15	2 – 15 N·m	○		○		27
730R VDE	4 – 50 N·m		○		○***	498
Electromechanical	0 50 150 300 500 650 800 1.000	Indicating	Clicking	Fixed	Interchangeable	Page
730D	10 – 1.000 N·m	○	○		○	43
714	1 – 1.000 N·m	○	○		○	46, 47
766 DAPTIQ®	1 – 1.000 N·m	○	○		○	12
Electronic	0 50 150 300 500 650 800 1.000	Indicating	Clicking	Fixed	Interchangeable	Page
713R	3 – 400 N·m	○			○	45
701	1 – 20 N·m	○		○		42

* only 755R/1 ** only 71aR/80 *** In case of repair



M

Testing and calibration technology

Category	Measuring range N·m	Type		
Testing devices	0 50 150 300 500 650 800 1.000 1.500	Electronic	Mechanical	Page
SmartCheck USB	1 – 1.500 N·m	○		85
SmartCheck Angle	0° – 720°	○		84
SmartCheck DAPTIQ®	1 – 1.500 N·m	○		13
7707 W	0.2 – 1.100 N·m	○		87
Test attachment for torque screwdrivers	0 50 150 300 500 650 800 1.000 1.500	Electronic	Mechanical	
7791-2	0.2 – 10 N·m		○	102
Mechanical calibration systems	0 50 150 300 500 650 800 1.000 3.000	Electronic	Mechanical	
7791 + 7791-1	1 – 1.000 N·m		○	99
7792 + 7792-1	1 – 3.000 N·m		○	100, 101
7790	0.2 – 10 N·m		○	102
Motorised calibration systems	0 50 150 300 500 650 800 1.000 1.500	Electronic	Mechanical	
perfectControl® 7794-1 + 7791-1	1 – 1.000 N·m		○	92, 93, 99
perfectControl® 7794-2 + 7791-1	1 – 1.000 N·m	○		94, 95, 99
perfectControl® 7794-3 + 7791-1	1 – 1.000 N·m	○		96/99

Category	Measuring range N·m												
Torque multipliers	0	50	150	300	500	650	800	1.000	1.500	5,000	8,000	12.000	Page
MULTIPOWER MP 100-1,500	1 – 1.500 N·m												76
MULTIPOWER MP 300	1 – 5.000 N·m**										– 8.000	– 12.000	76

** Catalogue items are available up to a maximum torque of 5.000 N·m. Variants with 8.000 N·m and 12.000 N·m are available on request..



Need more torque?
The STAHLWILLE MULTIPOWER torque multiplier enables up to 5,000 N·m to be achieved. More information on page 76.

STAHLWILLE TORQUE SCREWDRIVERS – Digital precision meets patented electromechanics.

The innovative TORSIOTRONIC® torque screwdrivers offers extensive possibilities for programming and comprehensive documentation of tightening data. This is because the development of the compact tool incorporated STAHLWILLE's many years of know-how in the field of digital torque technology as well as the patented electromechanical triggering technology, in which an audible and tangible 'click' signals when the target torque is reached. The perfect symbiosis of digital precision and proven mechanics has been awarded both the Red Dot Design Award and the German Design Award.

BRILLIANT



Finely tuned.

Particularly precise work thanks to the integrated ratchet with 80 teeth for a working angle of only 4.5° – for left and right tightening and in indicating or click mode.

Reliable.

A slipping mechanism prevents unintentional exceeding of the correct tightening torque and overtightening of the screw after the click.

High-contrast.

Clear display of all relevant information in a bright, energy efficient OLED colour display that can be read from almost any angle.

Can be documented.

The TORSIOTRONIC® stores up to 2,500 tightening results for reading and documenting on the PC at a later date via an integrated micro-USB interface.



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TORSIOMAX 775.

The TORSIOMAX 775 with left-hand and right-hand tightening accepts all standard quarter-inch bits, form E 6.3, and prevents the screw from being overtightened with the help of a release coupling. The target torque can be set precisely and easily using a rotary micrometer scale.

TORSIOMETER 760.

Equipped with a flat torsion spring as a measuring element, the TORSIOMETER 760 indicates the torque currently applied to the screw. This protects against material damage and rework. The torque can be set variably – quickly and reliably.

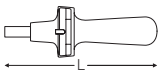
TORQUE SCREWDRIVERS, MECHANICAL.

TORSIOMETER 760

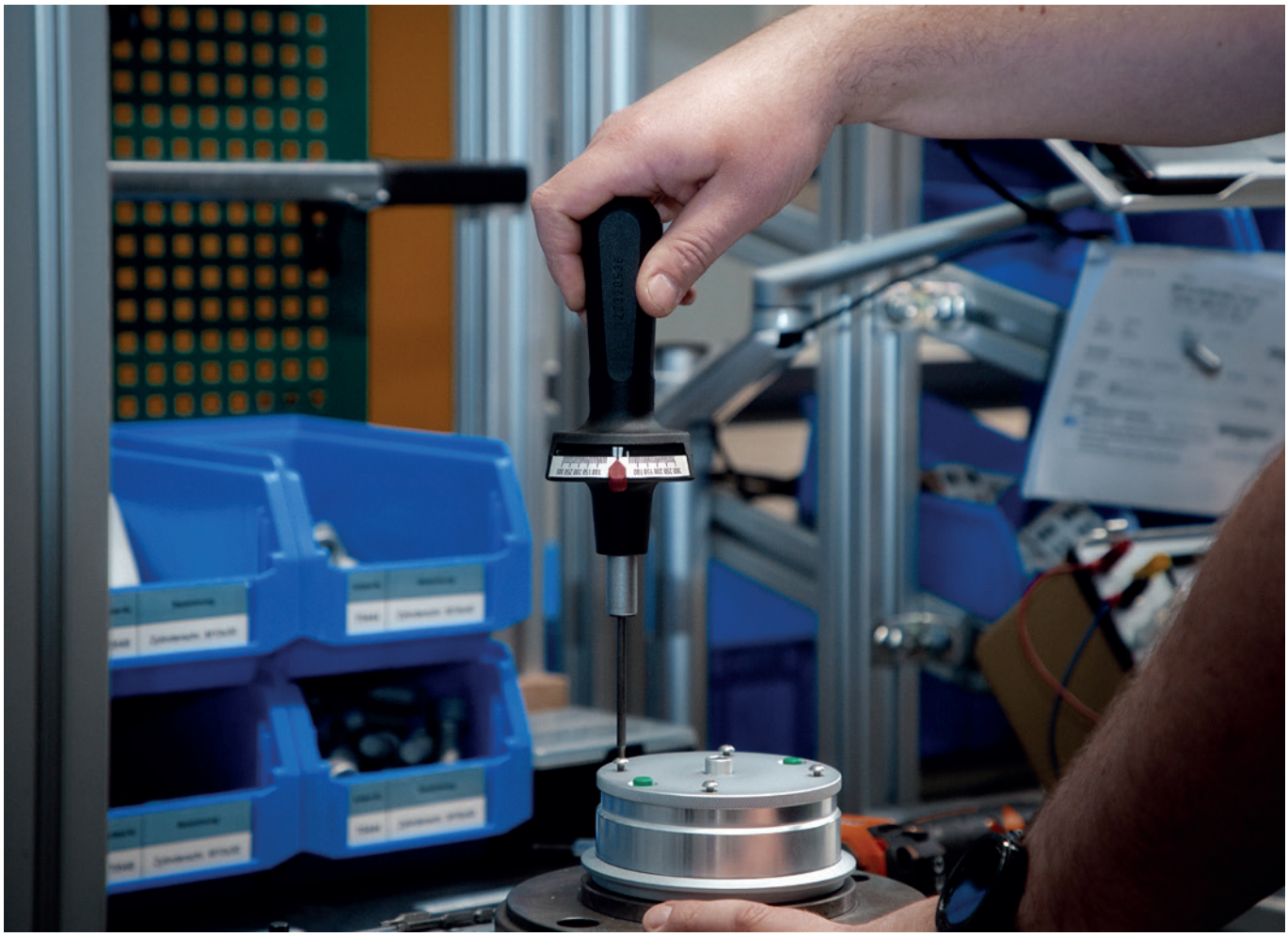


Torque screwdrivers TORSIOMETER

- indicating type
- torsion leaf spring as measuring element
- for clockwise and counter-clockwise tightening
- with drag pointer
- with 1/4" internal hex drive (F 6.3 DIN 3126 / ISO1173)
- comparative scale in·lb
- inserts and connectors with external hex E 6.3 (1/4") DIN 3126 / ISO 1173 fit securely in the bit holder
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4%**



Product no.	Size	cN·m	in·lb	cN·m	mm	L mm	g
51040007	7.5	15-75	1.5-6.5	2.5	F 6.3	185	225
51040015	15	30-150	3-13	5	F 6.3	185	225
51040030	30	60-300	6-26	10	F 6.3	185	230
51040060	60	120-600	12-52	20	F 6.3	185	230



TORSIOMAX 775



775/3 775/12-30 775/100

Torque screwdrivers TORSIOMAX

- clicking type
- for controlled screw tightening in the cN·m and in·lb ranges
- for both single tightenings and for repetitive production tasks
- for clockwise and counter-clockwise tightening
- with 1/4" internal hex drive (F 6.3 DIN 3126 / ISO1173)
- adjustable setting via micrometer scale (rotating scale)
- disengaging clutch prevents overtightening of the fastener
- specially designed handle for safe transmission of torque
- insert tools: all bits with 1/4" hex E 6.3, such as PHILLIPS®, slotted, TORX®, hex, POZIDRIV® etc.
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 6%**

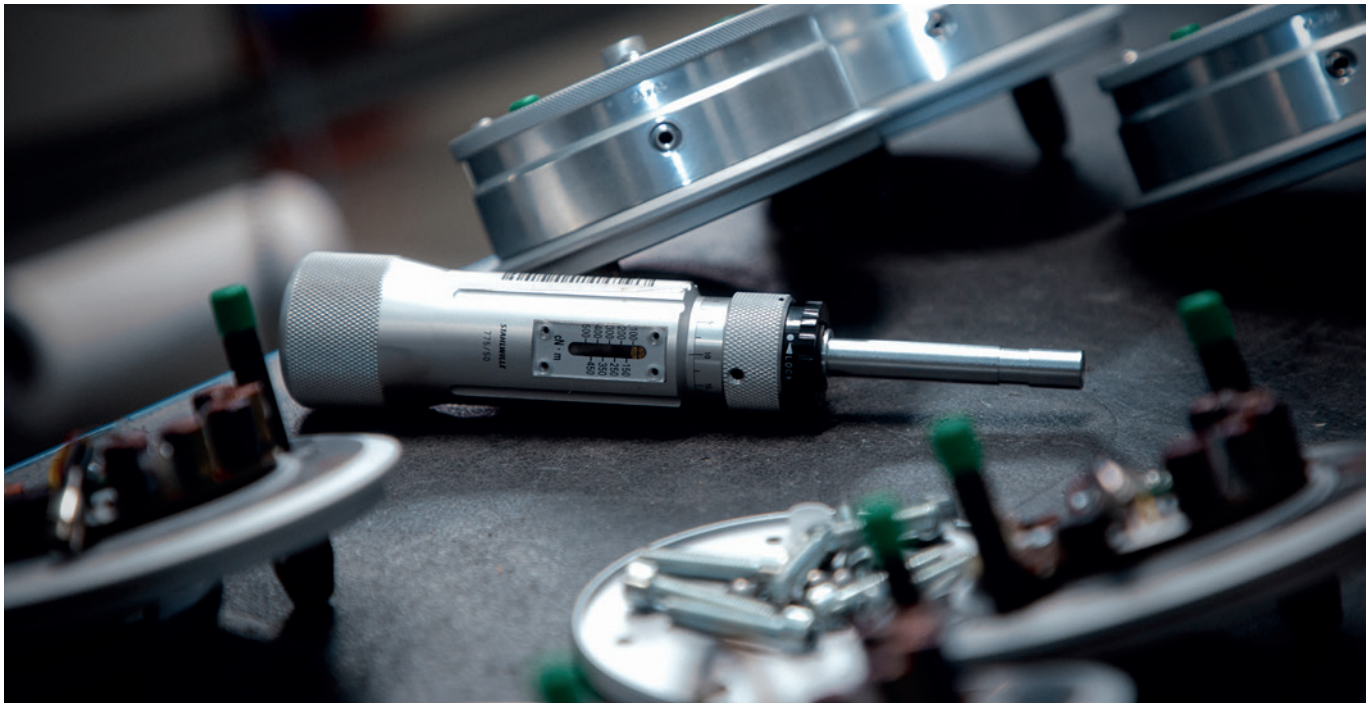


Product no.	Size	cN·m	in·lb	cN·m	in·lb	mm	L mm	g
51060003 [1]	3	2-30	-	0.2	-	F 6.3	105	55
51060012 [2]	12	20-120	-	1	-	F 6.3	157	180
51060030 [2]	30	40-300	-	1	-	F 6.3	160	205
51060050 [2]	50	100-500	-	2.5	-	F 6.3	205	420
51060100 [3]	100	400-1000	-	5	-	F 6.3	235	630
51460003 [1]	a/3	-	0.2-3	-	0.02	F 6.3	105	55
51460012 [2]	a/12	-	2-12	-	0.1	F 6.3	157	200
51460050 [2]	a/50	-	10-50	-	0.25	F 6.3	205	440

[1] with a swivelling handle end to improve tool control; and with a clamping screw for locking the torque value once set

[2] with additional locking mechanism to prevent unintentional adjustment of the set torque

[3] with screw-on handles to reduce effort required for high torques



TORQUE SCREWDRIVERS, ELECTROMECHANICAL.



Key features of torque screwdrivers
TORSIOTRONIC®

- electromechanical, indicating and clicking type
- for clockwise and counter-clockwise tightening
- visual, acoustic, and haptic dual-stop signals
- with 1/4" external square drive (6.3 DIN 3120/ISO 1174-1) and integrated ratchet function with 80 teeth, working angle of 4.5°, for holding 1/4" sockets
- after clicking, the slipping mechanism prevents unintended overshooting of the set tightening torque and overtightening of the screw is prevented
- bright and efficient OLED - colour display readable from virtually any angle
- optical evaluation of the tightening torque by traffic light colours on the display and side mounted LEDs
- supported languages: DE, EN, IT, FR, ES
- stores up to 2,500 joints and sequences for transfer to the PC via an integrated micro-USB interface
- tolerances for evaluation purposes can be set individually
- short training time thanks to virtually self-explanatory controls and an easy-to-understand menu structure
- 3 operating modes (Click, Track, Peak-Hold)
- bolted joints and sequence plans parameterizable
- with a 1/4" inner square at the end of the handle (6.3 DIN 3120/ ISO 1174-1) for accommodating a 1/4" T-handle
- units of measurement: cN·m, N·m, ft·lb, in·lb, in·oz
- included in delivery: software SensoMaster 4, USB cable, bit holder, T-handle (size 10)
- supplied with lithium battery 3.6 V, type 18650, packed according to UN 3481
- the GEN3 version can charge the battery in situ via the micro-USB cable if required
- with 2-component handle
- patented
- in a sturdy plastic box
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4 %**

TORSIOTRONIC®





Electromechanical torque screwdrivers

- long battery life with battery-saving standby mode
- the batteries are quick and easy to change.
- supplied with 3.6 V lithium battery, type 18650, packaged according to UN 3481

Product no.	cN·m	N·m	ft·lb	in·lb	in·oz	L mm	g
96510712	12-120	0.12-1.2	0.08-0.885	1.06-10.7	16.9-169.9	317	569
96510730	30-300	0.3-3	0.2-2.3	2.6-26.6	42-425	317	570
96510760	60-600	0.6-6	0.4-4.45	5.3-53.1	84.5-849.5	317	572
96510700	100-1000	1-10	0.7-7.3	8.8-88.5	141-1417	317	575
96511712 [1]	12-120	0.12-1.2	0.08-0.885	1.06-10.7	16.9-169.9	317	523
96511730 [1]	30-300	0.3-3	0.2-2.3	2.6-26.6	42-425	317	524
96511760 [1]	60-600	0.6-6	0.4-4.45	5.3-53.1	84.5-849.5	317	526
96511700 [1]	100-1000	1-10	0.7-7.3	8.8-88.5	141-1417	317	529

[1] version as 96510712-96510700, but without battery **(not hazardous goods)**

STAHLWILLE TORSIOTRONIC® –
The innovative torque screwdriver.





Precise.

Particularly precise work thanks to the integrated ratchet with 80 teeth for a working angle of just 4.5° – for left and right tightening and indicating or clicking mode.



Documentable.

The TORSIOTRONIC® stores up to 2,500 tightening results for reading and documenting on the PC at a later date via an integrated micro-USB interface.



Ready.

Long battery life with battery-saving standby mode. Always ready for use thanks to a quick and easy rechargeable battery.

MECHANICAL TORQUE WRENCHES – For more efficiency and safety.

Mechanical torque wrenches from STAHLWILLE impress with their easy operation, their technical features and the long-term stability of the measured values: Sophisticated controls ensure greater safety and speed when adjusting the target torque. A precise technology inside for precise triggering. Optimised ergonomics to prevent operator errors and fatigue. And a triggering mechanism with a bending beam, which eliminates the need to unwind the spring to '0' after use.

SIMPLE



Quick.

MANOSKOP® 730 Quick: Convenient and quick to adjust – thanks to particularly large thumbhole and non-slip adjustment slider.

Reliable.

The QuickRelease technology prevents unintentional removal of the insert tools and makes it possible to change tools quickly.

Simple.

Quick external adjustment without dismantling the torque wrench using 2 adjustment points.

Exceptional.

The mechanical torque wrenches from STAHLWILLE feature a low-wear clicking mechanism with a bending beam. Unlike conventional torque wrenches with coiled springs, the bending beam is not under load unless the tool is being used, which means that it does not need to be reset to '0' after use.



Flexible.

Thanks to a wide measuring range spanning 4 – 650 N·m and interchangeable insert tools (9x12 mm, 14x18 mm, 22x28 mm), the MANOSKOP® 730 Quick range is particularly flexible.

Precise.

The design with opposing arrow shaped pointers allows quick and precise torque adjustment.

An overview of the mechanical torque wrenches can be found on page 16 and 17!

TORQUE WRENCHES, MECHANICAL.

Key features of torque wrenches
MANOSKOP® 71

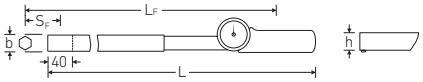
- indicating type
- drag indicator dial gauge
- dual scale N·m/ft·lb
- scale made of special luminescent, bright yellow foil for clear readability even in poor visibility conditions
- measuring element as bending plate in the handle
- handle with integrated force compensator
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- readjustment does not require disassembly
- delivered in a textile bag
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4 %**

71/80



Torque wrench MANOSKOP®

- mount for interchangeable shell tools
- when combined with adaptor No. 7370/80, 14 x 18 mm insert tools can also be used (max. 650 N·m)
- with overload protection
- counter-clockwise tightening by turning the insert tools over



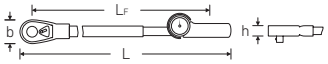
Product no.	N·m	ft·lb	N·m	ft·lb	mm	L mm	b mm	h mm	L_F mm	S_F mm	g
50030080	160-800	120-600	10	10	24.5 x 28	1048	28	24	1050	95	2300

71aR/80



Torque wrench MANOSKOP®

- with permanently installed ratchet
- 36 teeth
- for controlled clockwise tightening
- dial gauge secured with an additional protective ring



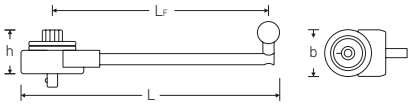
Product no.	N·m	ft·lb	N·m	ft·lb	■ "	L mm	b mm	h mm	L_F mm	g
50450080	160-800	100-600	10	10	3/4	1152	70	30	1060	4900

73Nm/15



Friction gauge

— indicating type
— drag indicator dial gauge
— with built-in square for clockwise measurements
— no 'blinking cursor' during the measurement process
— weight reduction through use of aluminium inserts
— calibration certificate in accordance with DIN EN ISO 6789-2:2017
— **accuracy ± 4%**



Product no.	N·m	N·m	■ "	L mm	b mm	h mm	L_F mm	g
50240015	2-15	0.5	1/2	298.5	72	50	250	676

Key features of torque wrenches

MANOSKOP® 755 series

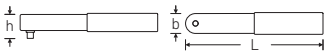
— clicking type with dual stop signal
— for work on assembly lines or for repetitive production tasks.
— no adjustment scale; therefore adjustment with test equipment is required, e.g. with the STAHLWILLE test devices No. 7707 W, SmartCheck or the perfectControl® calibration systems No. 7794, or calibration systems No. 7706. 7791)
— particularly lightweight design
— handle and shaft made of rectangular steel pipe
— clicking mechanism insensitive to continuous loads and counter-loads (up to the max. measuring range limit of the torque wrench)
— can be supplied pre-set at defined torque value and with certification (additional charge applies)
— **accuracy ± 4 %**

755R/1



Torque wrench Series MANOSKOP®

— measurements are independent of the point of application of force
— for controlled clockwise tightening
— with permanently installed ratchet
— 22 teeth



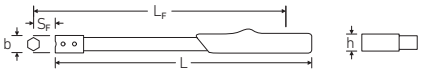
Product no.	N·m	ft·lb	■ "	L mm	b mm	h mm	g
50100001	1.5-12.5	1.0-9.0	1/4	173.5	22	18	335

755



Torque wrenches Series MANOSKOP®

— with holder for interchangeable insert tools
— counter-clockwise tightening by turning the insert tools over



Product no.	Size	N·m	ft·lb	mm	L mm	b mm	h mm	L_F mm	S_F mm	g
50010004	4	4-40	3-30	9 x 12	201	22	18	172	17.5	500
50010010	10	20-100	15-74	9 x 12	318	28	24	289	17.5	635
50010020	20	40-200	30-147	14 x 18	457	28	24	435	25	1045
50010030	30	60-300	40-220	14 x 18	609	28	24	587	25	1210

Key features of torque wrenches
Service MANOSKOP® 730 Quick

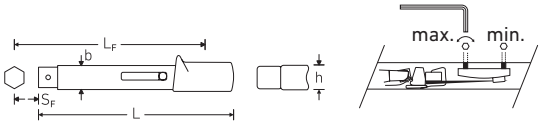
- clicking type with dual stop signal
- no reset to '0' required
- the measuring element is only under load during tightening
- with holder for interchangeable insert tools
- with QuickRelease safety lock (size 5-65)
- non-slip adjuster with thumb recess for quick torque adjustment
- fine, tapered pointers
- clicking mechanism insensitive to continuous loads and counter-loads (max. up to the measuring range limit of the torque wrench)
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- counter-clockwise tightening by turning the insert tools over
- easy adjustment without disassembly via 2 adjustment screws
- with 2-component handle
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4%**

730 Quick



Torque wrenches Service MANOSKOP® (N·m)

- N·m scale only



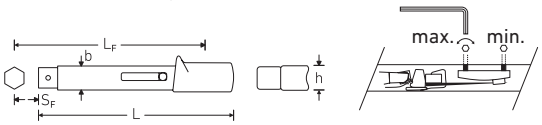
Product no.	Size	N·m	N·m	mm	L mm	b mm	h mm	L_F mm	S_F mm	g
50184001	2-1	2-10	0.25	9 x 12	179	27.5	23.6	157.2	17.5	315
50184002	2	4-20	0.5	9 x 12	179	27.5	23.6	157.2	17.5	315
50184004	4	8-40	1	9 x 12	223	27.5	23.6	200.8	17.5	395

730a Quick



Torque wrenches Service MANOSKOP® (in·lb)

- in·lb scale only



Product no.	Size	in·lb	in·lb	mm	L mm	b mm	h mm	L_F mm	S_F mm	g
50584001	a/2-1	17.5-87.5	2.5	9 x 12	179	27.5	23.6	157.2	17.5	315
50584002	a/2	30-175	5	9 x 12	179	27.5	23.6	157.2	17.5	315
50584004	a/4	70-350	10	9 x 12	223	27.5	23.6	200.8	17.5	395

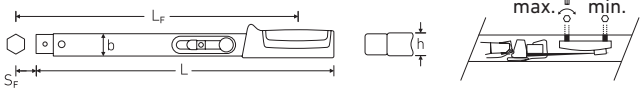
730 Quick



Torque wrenches Service MANOSKOP®

— dual scale N·m/ft·lb

— also available on request as a N·m only version without dual scale



Product no.	Size	N·m	ft·lb	N·m	ft·lb	mm	L mm	b mm	h mm	L_F mm	S_F mm	g
50184005	5	6-50	5-36	2	1	9 x 12	315	28	23	288	17.5	780
50184010	10	20-100	15-72.5	2.5	2.5	9 x 12	370	28	23	343	17.5	936
50184012	12	25-130	20-95	2.5	2.5	14 x 18	410	28	23	390	25	1074
50184020	20	40-200	30-145	5	5	14 x 18	455	28	23	435	25	1310
50184030	30	60-300	50-220	10	10	14 x 18	520	28	23	500	25	1400
50184040	40	80-400	60-300	10	10	14 x 18	590	28	23	570	25	1540
50184065 [1] [2]	65	130-650	100-480	20	20	14 x 18	875	30.6	25.6	855	25	3192
50184565 [1] [2]	II/65	130-650	100-480	20	20	22 x 28	897	30.6	25.6	907	55	4104

[1] recommended ratchet insert tool No. 735/40HD

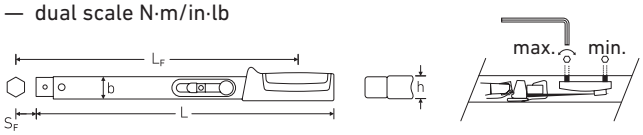
[2] supplied in textile bag

730a Quick



Torque wrenches Service MANOSKOP®

— dual scale N·m/in·lb



Product no.	Size	N·m	in·lb	N·m	in·lb	mm	L mm	b mm	h mm	L_F mm	S_F mm	g
50584005	a/5	6-50	50-440	2	10	9 x 12	315	28	23	288	17.5	780
50584010	a/10	20-100	180-880	2.5	20	9 x 12	370	28	23	343	17.5	934
50584012	a/12	25-130	225-1150	2.5	25	14 x 18	410	28	23	390	25	1076
50584020	a/20	40-200	350-1750	5	50	14 x 18	455	28	23	435	25	1216

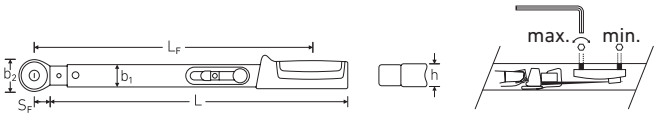
TOOLS THAT
... inspire

730R Quick



Torque wrenches Service MANOSKOP®

- dual scale N·m/ft·lb
- with holder for interchangeable insert tools
- with ratchet No. 735
- 60 teeth



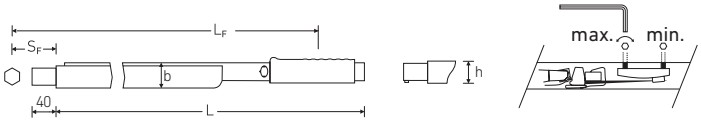
Product no.	Size	N·m	ft·lb	N·m	■ "	mm	L mm	b_1 mm	b_2 mm	h mm	L_F mm	S_F mm	g
96501054	2-1	2-10	-	0.5	1/4	9 x 12	250	60	22	55	157.2	17.5	480
96504002	2	4-20	-	0.5	3/8	9 x 12	255	55	33	55	157.2	17.5	455
96504004	4	8-40	-	1	3/8	9 x 12	285	55	33	55	200.8	17.5	642
96504005	5	6-50	5-36	2	3/8	9 x 12	380	50	33	50	288	17.5	994
96504010	10	20-100	15-72.5	2.5	1/2	9 x 12	430	55	33	55	343	17.5	1190
96504012	12	25-130	20-95	2.5	1/2	14 x 18	475	52	43	52	390	25	1488
96504020	20	40-200	30-145	5	1/2	14 x 18	530	55	43	55	435	25	1626
96504030	30	60-300	50-220	10	1/2	14 x 18	590	50	43	50	500	25	1400
96504040	40	80-400	60-300	10	3/4	14 x 18	675	72	50	63	570	25	2694

730/80



Torque wrench Service MANOSKOP®

- dual scale N·m/ft·lb
- with holder for interchangeable shell tools
- when combined with adaptor No. 7370/80, 14 x 18 mm insert tools can also be used (max. 650 N·m)
- delivered in a textile bag



Product no.	N·m	ft·lb	N·m	ft·lb	■ mm	L mm	b mm	h mm	L_F mm	S_F mm	g
50180080	160-800	120-600	20	20	24.5 x 28	970	46	43	990	95	4925



Key features of torque wrenches
Standard MANOSKOP® 721 Quick

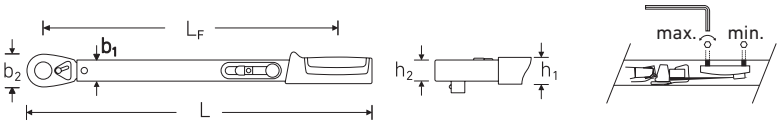
- clicking type with dual stop signal
- no reset to '0' required
- the measuring element is only under load during tightening
- quick adjustment thanks to easy-to-operate clamping lever in handle
- non-slip adjuster with thumb recess for quick torque adjustment
- clicking mechanism insensitive to continuous loads and counter-loads (up to the max. measuring range limit of the torque wrench)
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- only for controlled clockwise tightening
- easy adjustment without disassembly via 2 adjustment screws
- with 2-component handle
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4 %**

721 Quick



Torque wrenches Standard MANOSKOP®

- dual scale N·m/ft·lb
- with permanently installed ratchet



Product no.	Size	N·m	ft·lb	N·m	ft·lb	■ "	L mm	b_1 mm	b_2 mm	h_1 mm	h_2 mm	L_F mm	Number of teeth	g
50204005	5	6-50	5-36	2	1	3/8	352	28	27.5	23	14.5	293	30	880
50204015	15	30-150	25-110	5	5	1/2	452	28	41	23	18	387	36	1282
50204020	20	40-200	30-145	5	5	1/2	483	28	41	23	18	418	36	1349
50204030 [1]	30	60-300	50-220	10	10	1/2	553	28	44	23	27.5	486	36	1646

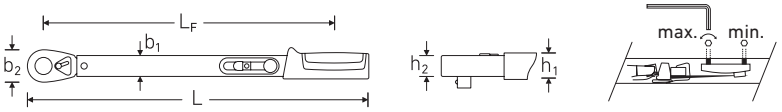
[1] size 30 with push through square drive for counter-clockwise tightening (for replacement square drive see page 80)

721QR Quick



Torque wrenches Standard MANOSKOP®

- dual scale N·m/ft·lb
- with permanently installed QuickRelease ratchet
- 36 teeth



Product no.	Size	N·m	ft·lb	N·m	ft·lb	■ "	L mm	b_1 mm	b_2 mm	h_1 mm	h_2 mm	L_F mm	g
50204115	15	30-150	25-110	5	5	1/2	452.5	28	41	23	18	387	1268
50204120	20	40-200	30-145	5	5	1/2	482	28	41	23	18	416.5	1338

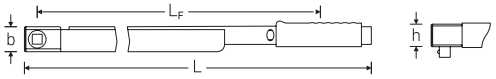
Key features of torque wrenches
Standard MANOSKOP® 720Nf/721Nf

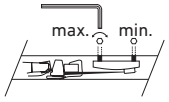
- clicking type with dual stop signal
- dual scale N·m/ft·lb
- anti-clockwise tightening via push-through square drive
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- easy adjustment without disassembly via 2 adjustment screws
- delivered in a textile bag
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4 %**

720Nf/80



Torque wrench Standard MANOSKOP® with fixed square drive
- 3/4" external square drive
- with reversible square





Product no.	N·m	ft·lb	N·m	ft·lb	■ "	L mm	b mm	h mm	L_F mm	g
50190081	160-800	120-600	20	20	3/4	1034	45	42	938	5650

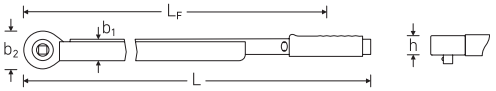
721Nf

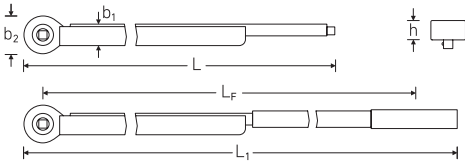


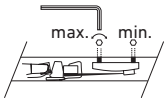
721Nf/80

721Nf/100

Torque wrenches Standard MANOSKOP®
- 3/4" external square drive
- with permanently installed ratchet
- with reversible square
- 30 teeth







Product no.	Size	N·m	ft·lb	N·m	ft·lb	■ "	L mm	L_1	b_1 mm	b_2 mm	h mm	L_F mm	g
50200081	80	160-800	120-600	20	20	3/4	1050.5	-	46.5	76	42	938	6380
96502001	100	200-1000	150-725	25	25	3/4	820	1503.5	46.5	76	42	1365.5	7010

Key features of mechanical torque wrenches
Service MANOSKOP® 730N

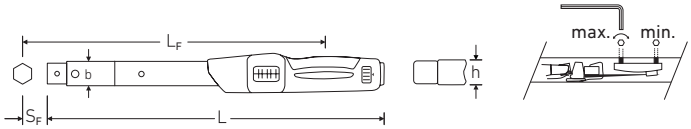
- clicking type with dual stop signal
- no reset to '0' required
- the measuring element is only under load during tightening
- fast, precise adjustment with QuickSelect quick adjustment
- clicking mechanism insensitive to continuous loads and counter-loads (up to the max. measuring range limit of the torque wrench)
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- easy adjustment without disassembly via 2 adjustment screws
- with 2-component handle
- calibration certificate in accordance with DIN EN ISO 6789-2:2017

730N



Torque wrench Service MANOSKOP®

- dual scale N·m/in·lb
- with holder for interchangeable insert tools
- with QuickRelease safety lock
- counter-clockwise tightening by turning the insert tools over
- **accuracy ± 4**



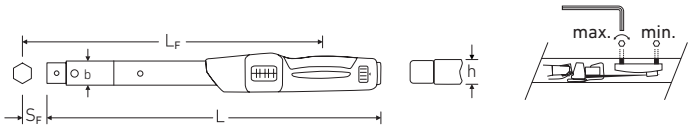
Product no.	Size	N·m	in·lb	N·m	in·lb	fine scale	mm	L mm	b mm	h mm	L_F mm	S_F mm	g
50181102	2	4-20	40-180	1	10	0.2 N·m	9 x 12	275	28	23	226	17.5	737

730N



Torque wrenches Service MANOSKOP®

- dual scale N·m/ft·lb
- with holder for interchangeable insert tools
- with QuickRelease safety lock
- counter-clockwise tightening by turning the insert tools over
- supplied in a textile bag (from size 65)
- **accuracy ± 3%**



Product no.	Size	N·m	ft·lb	N·m	ft·lb	fine scale	mm	L mm	b mm	h mm	L_F mm	S_F mm	g
50181005	5	10-50	7-37	5	1	0.25 N·m	9 x 12	330	28	23	280.5	17.5	831
50181010	10	20-100	15-75	10	2.5	0.5 N·m	9 x 12	386	28	23	336	17.5	988
50181012	12	25-130	20-95	10	2.5	0.5 N·m	14 x 18	421	28	23	379	25	1128
50181020	20	40-200	30-150	10	5	1 N·m	14 x 18	467	28	23	424.5	25	1264
50181040	40	80-400	60-300	20	10	2 N·m	14 x 18	607	28	23	564.5	25	1655
50181065 *	65	130-650	100-480	50	20	2.5 N·m	14 x 18	890	30.6	25.6	848	25	3231
50181365	II/65	130-650	100-480	50	20	2.5 N·m	22 x 28	911	30.6	25.6	900	55	3504
50181080	80	160-800	120-600	100	25	5 N·m	22 x 28	1178	30.6	25.6	1167	55	4825
50181100	100	200-1000	150-750	100	25	5 N·m	22 x 28	1363	30.6	25.6	1352	55	5000

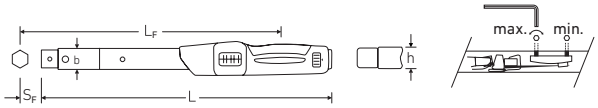
* recommended ratchet insert tool No. 735/40HD

730Na



Torque wrenches Service MANOSKOP®

- dual scale ft·lb/in·lb
- with holder for interchangeable insert tools
- with QuickRelease safety lock
- counter-clockwise tightening by turning the insert tools over
- **accuracy ± 3% (size a/2: 4%)**



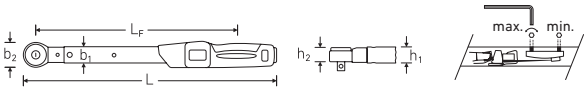
Product no.	Size	ft·lb	in·lb	in·lb	ft·lb	fine scale	mm	L mm	b mm	h mm	L_F mm	S_F mm	g
50581102	a/2	3-15	40-180	10	0.5	2 in·lb	9 x 12	275	28	23	226	17.5	737
50581005	a/5	7-37	90-450	50	1	2.5 in·lb	9 x 12	330	28	23	280.5	17.5	831
50581010	a/10	15-75	180-900	100	2.5	5 in·lb	9 x 12	386	28	23	336	17.5	988
50581020	a/20	30-150	350-1800	100	5	10 in·lb	14 x 18	467	28	23	424.5	25	1264
50581040	a/40	60-300	800-3600	100	20	2 ft·lb	14 x 18	607	28	23	564.5	25	1655

730NR



Torque wrenches Service MANOSKOP®

- dual scale N·m/ft·lb
- with permanently installed fine-tooth ratchet
- 60 teeth
- in sturdy plastic box (size 65 in sheet steel box)
- **accuracy ± 4%**



Product no.	Size	N·m	ft·lb	N·m	ft·lb	fine scale	■ "	L mm	b_1 mm	b_2 mm	h_1 mm	h_2 mm	L_F mm	g	g with box
96503105	5 FK	10-50	7-37	5	1	0.25 N·m	3/8	364	28	33	23	24	280.5	973	1763
96503110	10 FK	20-100	15-75	10	2.5	0.5 N·m	1/2	420	28	33	23	24	336.5	1146	1934
96503120	20 FK	40-200	30-150	10	5	1 N·m	1/2	513.5	28	43	23	26	425	1583	2370
96502140	40 FK	80-400	60-300	20	10	2 N·m	3/4	657	28	50	23	31.5	564.5	2122	2657
96502265	65 FK-HD	130-650	100-480	50	20	2.5 N·m	3/4	944	30.6	58	25.6	36	848	3698	6188

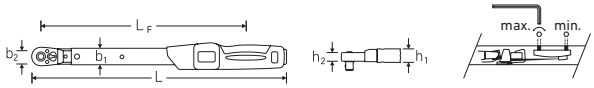


730NR QR



Torque wrenches Service MANOSKOP®

— dual scale N·m/ft·lb
— with permanently installed QuickRelease ratchet
— with QuickRelease safety lock
— 30 teeth
— in a sturdy plastic box
— **accuracy ± 4%**



Product no.	Size	N·m	ft·lb	N·m	ft·lb	fine scale	■ "	L mm	b1 mm	b2 mm	h1 mm	h2 mm	LF mm	g	g with box
96502105	5QR FK	10-50	7-37	5	1	0.25 N·m	3/8	372.5	28	29	23	14.5	291	961	1386
96502110	10QR FK	20-100	15-75	10	2.5	0.5 N·m	1/2	428.5	28	29	23	14.5	346.5	1129	1554
96502120	20QR FK	40-200	30-150	10	5	1 N·m	1/2	526	28	41	23	18	438.5	1589	2014

Key features of mechanical torque wrenches
Service/Series MANOSKOP® 730 Fix

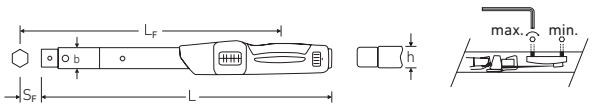
— clicking type with dual stop signal
— adjustment knob can be unscrewed and removed after setting the desired torque value - subsequent changing of the setting is thus prevented
— no reset to '0' required
— the measuring element is only under load during tightening
— with holder for interchangeable insert tools
— with QuickRelease safety lock
— fast, precise adjustment with QuickSelect quick adjustment
— counter-clockwise tightening by flipping the insert tools over
— clicking mechanism insensitive to continuous loads and counter-loads (up to the max. measuring range limit of the torque wrench)
— optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
— easy adjustment without disassembly via 2 adjustment screws
— with 2-component handle
— in sturdy plastic box (sizes 80-100 in sheet steel box)
— calibration certificate in accordance with DIN EN ISO 6789-2:2017
— **accuracy ± 3%**

730 Fix



Torque wrenches Service/Series MANOSKOP®

— dual scale N·m/ft·lb
— for work on assembly lines or for repetitive production tasks



Product no.	Size	N·m	ft·lb	N·m	ft·lb	fine scale	mm	L mm	b mm	h mm	LF mm	SF mm	g	g with box
96503005	5	10-50	7-37	5	1	0.25 N·m	9 x 12	330	28	23	280.5	17.5	828	1632
96503010	10	20-100	15-75	10	2.5	0.5 N·m	9 x 12	386	28	23	336	17.5	986	1788
96503012	12	25-130	20-95	10	2.5	0.5 N·m	14 x 18	421	28	23	379	25	1124	1928
96503020	20	40-200	30-150	10	5	1 N·m	14 x 18	467	28	23	424.5	25	1266	1890
96503040	40	80-400	60-300	20	10	2 N·m	14 x 18	607	28	23	564.5	25	1666	2444
96503065 *	65	130-650	100-480	50	20	2.5 N·m	14 x 18	890	30.6	25.6	848	25	3242	6500
96503465	II/65	130-650	100-480	50	20	2.5 N·m	22 x 28	911	30.6	25.6	900	55	3490	7000
96503080	80	160-800	120-600	100	25	5 N·m	22 x 28	1178	30.6	25.6	1167	55	4794	10500
96503100	100	200-1000	150-750	100	25	5 N·m	22 x 28	1363	30.6	25.6	1352	55	5196	11000

* recommended ratchet insert tool No. 735/40HD

Torque technology



Triple safety

— adjustment knob can be unscrewed and removed after setting the desired torque value- subsequent changing of the setting is thus prevented

— the supplied TORX® Tamper Resistant locking screw also protects against tampering, as do the enclosed adhesive seals
— no adjustment possible without breaking the seal

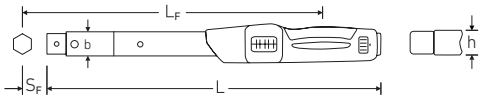
730a Fix

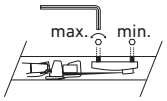


Torque wrenches Service/Series MANOSKOP®

— dual scale ft·lb/in·lb

— for work on assembly lines or for repetitive production tasks





Product no.	Size	ft·lb	in·lb	in·lb	ft·lb	fine scale	mm	L mm	b mm	h mm	L_F mm	S_F mm	g	g with box
96583005	a/5	7-37	90-450	50	1	2.5 in·lb	9 x 12	330	28	23	280.5	17.5	832	1638
96583010	a/10	15-75	180-900	100	2.5	5 in·lb	9 x 12	386	28	23	336	17.5	988	1790
96583020	a/20	30-150	350-1800	100	5	10 in·lb	14 x 18	467	28	23	424.5	25	1066	2072
96583040	a/40	60-300	800-3600	100	20	2 ft·lb	14 x 18	607	28	23	564.5	25	1670	2614



BECAUSE YOU DON'T HAVE TIME FOR YOGA...



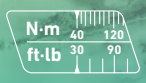
750NR

The torque wrench with relaxation factor.



Outstanding.

STAHLWILLE on it, STAHLWILLE in it: Quality "Made in Germany", robust and durable. Made of high-quality steel with a special matt finish!



Precise.

Thanks to the easily readable scale, integrated fine scale, and the clearly tangible haptic feedback of the precise mechanical triggering.



Balanced.

Beautiful design with new, ergonomically optimised handle – for low-fatigue work.



Relaxed.

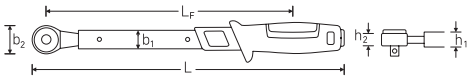
Adjustment of the target torque via an easily accessible rotary knob at the end of the handle. With 10 N·m per revolution (Model 750NR/200), this torque wrench is the fastest in its class!

750NR



Torque wrenches

- dual scale N·m/ft·lb
- clicking type with dual stop signal
- with permanently installed, reversible fine-tooth ratchet
- 60 teeth
- resilient, long-lasting spring mechanism
- fast, precise adjustment with QuickSelect quick adjustment
- for controlled clockwise tightening
- clicking mechanism insensitive to continuous loads and counter-loads (up to the max. measurement range of the torque wrench)
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- effortless and precise adjustment and fixing of the target torque using adjustment knob on the end of the handle
- ready for operation again immediately after release
- for maximum measuring accuracy and a long service life, it is recommended to reset the torque wrench to '0' after use
- with 2-component handle
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4%**



Product no.	N·m	ft·lb	N·m	ft·lb	fine scale	"	L mm	b1 mm	b2 mm	h1 mm	h2 mm	LF mm	g
50021003	20-100	15-74	5	10	0.25 N·m	3/8	443	28	35	23	14	348	1150
50021004	40-200	30-150	10	20	0.5 N·m	1/2	526.7	28	43	23	16	464	1460
50021006	80-400	60-300	20	40	1 N·m	3/4	678.7	28	58	23	24	574.3	2550

ELECTRONIC TORQUE WRENCHES –
Extremely reliable, extremely precise.

No compromises – whether programming and parameterising bolted joints and entire bolting sequences, whether digital measurement and evaluation, or downloading bolted joint data for documentation. In terms of precision, handling and connectivity, STAHLWILLE's electronic torque wrenches are pioneering.

PRECISE



Documenting.

The SENSOTORK® 713R offers extensive documentation options. Up to 2,000 tightening operations are stored with a time stamp.

Connecting.

Parametrisation of the torque wrench or downloading the stored data. The USB interface makes this possible together with the optional SensoMaster software.

Multisensory.

The achieved torque is signalled visually, acoustically and haptically – by means of an LCD with multi-colour backlighting, warning tone and vibration.



Compact.

The SENSOTORK® 701 impresses with its slim and compact design and is specially designed for low torques in the range of 1–20 N·m. Ideal for tightening screws on modern materials such as plastic, magnesium or aluminium.

MADE IN CRONENBERG
MADE IN GERMANY

Precise.

With integrated fine-tooth ratchet with 80 teeth and QuickRelease safety lock, which allows quick tool changes whilst preventing unintentional loss of the attached tool.

Efficient.

The SENSOTORK® 701 offers direct adjustment of the target torque on the tool. The single-button control allows quick and easy setting of units and modes (track, peak hold, user mode including target with evaluation).

An overview of the electronic torque wrenches can be found on page 16 and 17!

ELECTROMECHANICAL TORQUE WRENCHES – Precise. Simple. Documented.

Parameterise bolted joints with absolute precision down to the decimal place, measure digitally, evaluate in real time and document for quality assurance? Electromechanical torque wrenches from STAHLWILLE are ideal for more demanding applications and also offer the sensory feedback usually only offered by mechanical torque wrenches.

LEADING



Documenting.

Our electromechanical torque wrenches are easy to configure and program with the SensoMaster software. This means that all data can be downloaded, stored and subjected to further analysis on the PC for better monitoring and optimisation of the work processes.

Intuitive.

High-resolution colour graphics display alongside indicator lights. Yellow light: Prewarning threshold reached. Green light: Measured value within the tolerance range. Red light: Measured value outside the tolerance range.

Connecting.

Simple documentation of the recorded measurements on the PC via the USB interface and via an optional Bluetooth Low Energy module.



Unique.

The best of both worlds: Electromechanical torque wrenches from STAHLWILLE combine the uncompromising precision of an electronic torque tool with the proven feeling of a real, mechanical click.



Time saving.

When using an insert tool with a different length, the user no longer has to recalculate and adjust the target torque. The user simply enters the new extension length. The torque wrench then performs the conversion automatically.

Diverse.

With the electromechanical torque wrench, you are equipped for every bolted joint: Users have four different measurement modes at their disposal with 'Torque', 'Angle of rotation', 'Torque with angle of rotation control' and 'Angle of rotation with torque control'.

An overview of the electromechanical torque wrenches can be found on page 16 and 17!

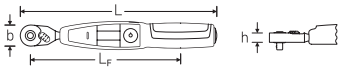
TORQUE WRENCHES, ELECTRONIC, ELECTROMECHANICAL.

701/2



Electronic torque wrenches SENSOTORK®

- idicating type
- with permanently installed fine-tooth ratchet
- 80 teeth allow for a working angle of just 4.5° - enabling you to work efficiently, even in the tightest spaces
- with QuickRelease safety lock
- very slim and compact design for small torques from 1-20 N·m
- measurement independent of the point of force application
- units of measurement: N·m, cN·m, ft·lb, in·lb
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- results can be documented (with SensoMaster), evaluation of bolted joint by coloured LEDs, buzzer, and vibration
- supplied with 3.6 V lithium-metal battery, type 14500, packaged according to UN3091, Class 9
- adjustable joint parameters
- with 2-component handle
- in a sturdy plastic box
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4%**



Product no.	cN·m	N·m	in·lb	ft·lb	■ "	L mm	b mm	h mm	L_F mm	g	g with box
96504502	100-2000	1-20	9-180	0.7-15	1/4	210	22.6	10	160	145	710
96504602 *	100-2000	1-20	9-180	0.7-15	1/4	210	22.6	10	160	132	700

* version as 96504502, but without battery **(not hazardous goods)**



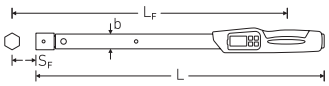
Key features of torque wrenches
Service/Series MANOSKOP® 730D/730DR

- patented electromechanical system
- acoustic and visual clicking
- with holder for interchangeable insert tools
- with QuickRelease safety lock
- quick setup via a convenient keyboard
- extension length compensation function: automatic compensation of the tightening torque when a deviating extension length is entered
- overload protection by acoustic and optical warning signals
- accidental adjustment is not possible due to automatic key lock
- indicating mode even for counter-clockwise torques
- units of measurement: N·m, ft·lb, in·lb
- different tolerance limits adjustable depending on the type of bolted joint
- optical evaluation of the result by green and red display
- additional locking of the presets (function mode, target value, unit of measure, tolerances, extension length deviation) by PIN code
- stores up to 7,500 tightening results
- USB interface for data transfer
- automatic warning of the next calibration date
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- with 2-component handle
- supplied with 2 x 1.5 V AA batteries. NiMH batteries AA/LR6, 1.2 V, can be used
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 2%, ± 1 digit**

730D



Electromechanical torque wrenches Service/Series MANOSKOP®
- in sturdy plastic box (sizes 40-100 in steel box)





Product no.	Size	N·m	ft·lb	in·lb	Setting/Indicating display resolution N·m	ft·lb	in·lb	mm	L mm	b mm	h mm	L_F mm	S_F mm	g	g with box
96501710	10	10-100	7.4-75	90-900	0.2/0.1	0.2/0.1	2/1.0	9 x 12	467	28	23	426.5	17.5	1085	1510
96501720	20	20-200	15-150	180-1800	0.5/0.1	0.5/0.1	5/1.0	14 x 18	548	28	23	515	25	1361	1896
96501740	40	40-400	30-300	360-3600	1.0/0.1	1.0/0.1	10/1.0	14 x 18	688	28	23	655	25	3300	5155
96501765 *	65	65-650	48-480	580-5800	1.0/0.1	1.0/0.1	10/1.0	14 x 18	870	30.6	25.6	837	25	3300	6000
96501965	II/65	65-650	48-480	580-5800	1.0/0.1	1.0/0.1	10/1.0	22 x 28	892	30.6	25.6	889	55	3224	7500
96502080	80	80-800	60-600	720-7200	1.0/1.0	1.0/1.0	10/1.0	22 x 28	1160	30.6	25.6	1157	55	4577	10500
96502100	100	100-1000	74-750	900-9000	1.0/1.0	1.0/1.0	10/1.0	22 x 28	1344	30.6	25.6	1341	55	4995	11000

* recommended ratchet insert tool No. 735/40HD

730DR

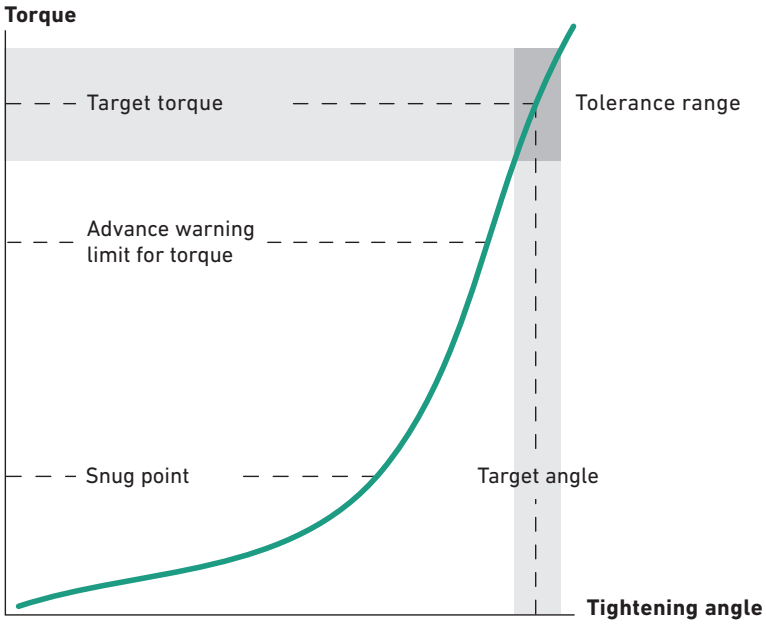


Electromechanical torque wrenches Service/Series MANOSKOP®
- includes reversible ratchet No. 735
- in sturdy plastic box (sizes 40-100 in steel box)

Product no.	Size	N·m	ft·lb	in·lb	Setting/Indicating display resolution N·m	ft·lb	in·lb	■ "	mm	L mm	b mm	h mm	Number of teeth	g	g with box
96501810	10	10-100	7.4-75	90-900	0.2/0.1	0.2/0.1	2/1.0	1/2	9 x 12	501	95	74	60	1232	1657
96501820	20	20-200	15-150	180-1800	0.5/0.1	0.5/0.1	5/1.0	1/2	14 x 18	595	95	74	60	1663	2198
96501840	40	40-400	30-300	360-3600	1.0/0.1	1.0/0.1	10/1.0	3/4	14 x 18	738	83	70	60	2232	4722
96501865	65	65-650	48-480	580-5800	1.0/0.1	1.0/0.1	10/1.0	3/4	14 x 18	975	85	70	60	3767	6530
96502065	II/65	65-650	48-480	580-5800	1.0/0.1	1.0/0.1	10/1.0	3/4	22 x 28	977	140	100	60	3994	9000
96501880	80	80-800	60-600	720-7200	1.0/0.1	1.0/0.1	10/1.0	3/4	22 x 28	1255	120	90	30	6492	12500
96501800	100	100-1000	74-750	900-9000	1.0/0.1	1.0/0.1	10/1.0	3/4	22 x 28	1439	120	100	30	6910	12500

FOR ABSOLUTE ACCURACY –
STAHLWILLE angle-controlled 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, an 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 precisely is required. For applications of this kind, STAHLWILLE has exactly the solutions industry needs.



MANOSKOP® 714 | page 46

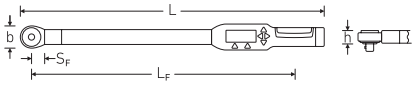
SENSOTORK® 713R | page 45

713R

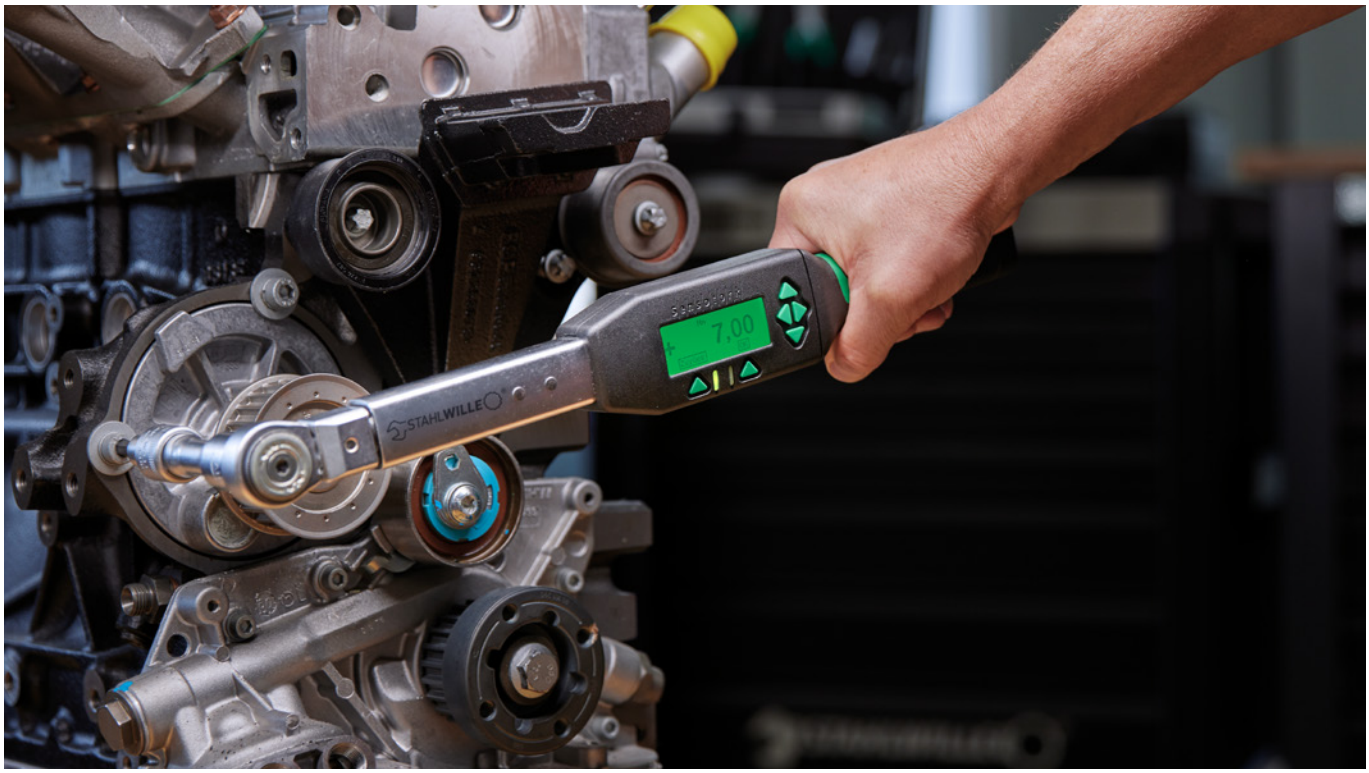


Electronic angle-controlled torque wrenches SENSOTORK®

- simple and flexible operation thanks to menu guidance on the large display
- particularly broad measurement range (5-100 % of the nominal value)
- includes reversible ratchet No. 735
- with QuickRelease safety lock
- for clockwise and counter-clockwise tightening
- measurement independent of the point of force application
- convenient angle of rotation measurement with an extremely wide angle of rotation range
- units of measurement: N·m, ft·lb, in·lb
- prewarning threshold for visual, tactile and acoustic signals can be set
- multicoloured backlit LED display gives visual cue about the status of the process (traffic light principle)
- extension length compensation function: automatic compensation of the tightening torque when a deviating extension length is entered
- easy to maintain thanks to simple adjustment and automatic notification of the next calibration date
- multiple bolted joints can be combined into a menu-guided sequence
- tightening operations are saved with a date and time stamp
- individual identification designation possible
- password protection against unintentional adjustment and unauthorised access
- compliant with DKD-R 3-7, class 2
- with 2 calibration certificates (torque in accordance with DIN EN ISO 6789-2:2017/angle of rotation based on VDI/VDE 2648-2)
- in sturdy plastic box (size 40 in sturdy steel box)
- supplied with 2 x 1.5 V AA batteries. NiMH batteries AA/LR6, 1.2 V can also be used.
- fully automatic calibration (torque) with the perfectControl® calibration system No. 7794-2
- readjustment does not require disassembly
- torque and angle of rotation are visible at the same time
- **angle of rotation accuracy ± 1°, ± 1 digit to 100°, >100° at least 1%, ± 1 digit**
- **torque accuracy ± 1 %, ± 1 digit**



Product no.	Size	N·m	ft·lb	■ "	mm	L mm	b mm	h mm	L_F mm	S_F mm	Number of teeth	g	g with box
96501606	6	3-60	2.5-44	3/8	9 x 12	378	33	24	299	17.5	60	856	1500
96501620	20	10-200	7-148	1/2	14 x 18	608	43	26	524	25	60	1552	2430
96501640	40	20-400	15-296	3/4	14 x 18	838	50	31.5	750	25	60	2332	5555



Key features of angle-controlled torque wrenches

Service/Series MANOSKOP® 714/714R

- patented electromechanical system
- acoustic and visual clicking
- 4 measuring modes (torque, angle of rotation, torque with 'angle of rotation' monitoring variable, angle of rotation with 'torque' monitoring variable)
- high-resolution colour OLED display and side mounted signal lights
- 3 function modes: clicking, peak hold and track
- visual evaluation of the bolted joint: yellow light (pre-warning threshold reached), green light (within tolerance range), red light (outside tolerance range)
- freely configurable menu structure
- battery cap/battery pack with bayonet connection
- optional: Li-ion battery no. 7195-2 and charger no. 7160
- micro USB interface for data transmission
- optional Bluetooth Low Energy module (5.2)
- with QuickRelease safety lock
- interchangeable system for insert tools
- data storage for up to 2,500 tightening results, including date and time stamp
- up to 200 bolted joints in a maximum of 25 sequences can be programmed
- different tolerance limits adjustable depending on the type of bolted joint
- fast and precise setting via the keyboard
- password protected keypad lock
- acoustic and visual signals warn of torque wrench overload and forced clicking in clockwise tightening mode
- automatic indication of the next calibration date, user-configurable according to elapsed time and/or number of operations
- fully automatic calibration and adjustment with the perfectControl® calibration and adjustment systems No. 7794-2 (torque) or No. 7794-3 (torque and angle of rotation) for reducing error influencing factors or calibration system No. 7791
- units of measurement: N·m, ft·lb, in·lb
- extension length compensation function: automatic compensation of the tightening torque when a deviating extension length is entered
- ready for operation again immediately after release
- clockwise and counter-clockwise tightening - the insert tool must be turned over for counter-clockwise torque in 'clicking' function mode
- torque and angle of rotation displays visible simultaneously
- measurement regardless of the force application point (for sizes 1, 2 and 4)
- 3 certificates included (torque indicating/clicking in accordance with DIN EN ISO 6789-2:2017, angle of rotation based on VDI/VDE 2648-2)
- with 2-component handle
- supplied with USB cable, 4 batteries AAA/LR03, 1.5 V

714



714/2

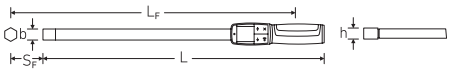


714/80

product design award 2013

Electromechanical angle-controlled torque wrenches MANOSKOP®

- in sturdy plastic box (sizes 40-100 in steel box)
- registered design, patented
- **angle of rotation display resolution 0.1°**
- **angle of rotation accuracy ± 1°, ± 1 digit to 100°, >100° at least 1%, ± 1 digit**
- **torque display resolution ≤ 60 N·m: 0.01 N·m; > 60 N·m: 0.1 N·m; >400 N·m: 1 N·m**
- **torque accuracy ± 2%, ± 1 digit**



Product no.	Size	N·m	ft·lb	in·lb	mm	L mm	b mm	h mm	L_F mm	S_F mm	g	g with box
96500901	1	1-10	0.7-7.5	9-90	9 x 12	226	28	23	188	17.5	370	795
96500902	2	2-20	1.5-15	18-180	9 x 12	226	28	23	188	17.5	380	805
96500904	4	4-40	3-30	36-360	9 x 12	252	28	23	214	17.5	420	845
96500906	6	6-60	4.5-45	54-540	9 x 12	393	28	23	355	17.5	810	1235
96500910	10	10-100	7.4-75	90-900	9 x 12	466	28	23	428	17.5	1085	1655
96500920	20	20-200	15-150	180-1800	14 x 18	547	28	23	516	25	1361	1896
96500940	40	40-400	30-300	360-3600	14 x 18	687	28	23	656	25	1765	5155
96500965	65	65-650	48-480	580-5800	22 x 28	890	30.6	25.6	890	55	3222	7000
96500980	80	80-800	60-600	720-7200	22 x 28	1158	30.6	25.6	1158	55	4572	10400
96500100	100	100-1000	74-750	900-9000	22 x 28	1343	30.6	25.6	1343	55	4990	10500

714R



714R/2



714R/80

Electromechanical angle-controlled torque wrenches MANOSKOP®

- with ratchet insert tool
- in sturdy plastic box (sizes 40-100 in steel box)
- **angle of rotation display resolution 0.1°**
- **angle of rotation accuracy ± 1°, ± 1 digit to 100°, >100° at least 1%, ± 1 digit**
- **torque display resolution ≤ 60 N·m: 0.01 N·m; > 60 N·m: 0.1 N·m; >400 N·m: 1 N·m**
- **torque accuracy ± 2%, ± 1 digit**

Product no.	Size	N·m	ft·lb	in·lb	■ "	mm	L mm	b mm	h mm	Number of teeth	g	g with box
96501001	1	1-10	0.7-7.5	9-90	1/4	9 x 12	269	80	70	22	432	857
96501002	2	2-20	1.5-15	18-180	1/4	9 x 12	269	80	70	22	442	867
96501004	4	4-40	3-30	36-360	1/4	9 x 12	295	80	70	22	482	907
96501006	6	6-60	4.5-45	54-540	3/8	9 x 12	427	80	70	60	965	1390
96501010	10	10-100	7.4-75	90-900	1/2	9 x 12	500	80	70	60	1232	1657
96501020	20	20-200	15-150	180-1800	1/2	14 x 18	594	80	70	60	1663	2198
96501040	40	40-400	30-300	360-3600	3/4	14 x 18	737	95	68	60	2275	5665
96501065	65	65-650	48-480	580-5800	3/4	22 x 28	980	125	95	60	5137	9000
96501080	80	80-800	60-600	720-7200	3/4	22 x 28	1253	130	95	30	6487	12300
96501100	100	100-1000	73-735	885-8850	3/4	22 x 28	1438	130	100	30	6905	12500

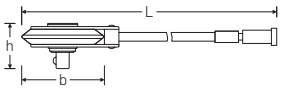


7380N/7385N



Angle gauges

— for angle of rotation controlled screw tightening, with static read-off point
— reliable reading from any angle through 2 tapered scales
— with detachable magnet for attaching a $^{1}/_{2}$" square drive socket
— to be used in conjunction with a tightening tool, e.g. Service MANOSKOP® No. 730N
— the choice of angle gauge disc - with $^{1}/_{2}$" or $^{3}/_{4}$" square - depends on the size of the square drive of the tightening tool used



Product no.	Model	⊔⊔⊔	■ "	O "	L mm	b mm	h mm	g
54010001	7380N	2°	$^{1}/_{2}$	$^{1}/_{2}$	416	78	43	505
54010002	7385N	2°	$^{3}/_{4}$	$^{3}/_{4}$	416	78	76	720

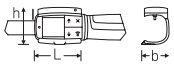
ACCESSORIES FOR TORQUE TOOLS.

BLE-MODUL 714



Bluetooth Low Energy module 714

— module for connecting to torque wrenches
— wireless transmission of bolted joint data to the PC
— seamless integration with the STAHLWILLE SensoMaster 4 software
— establish and manage the connection using the free middleware 'BluetoothMaster'



Product no.	for model	L mm	b mm	h mm	g
52110220	714	68	38	58	60

Li-Ion AA 3,7V / 800mAh



Lithium-ion battery

— standard Li-ion battery, 800 mAh and 3.7 V
— hazardous goods: Lithium-ion battery according to UN 3481, Class 9

Product no.	for model	Voltage	g
59220007	701/2	3.7 V	24

7162



Charger Lithium 2

— versatile charger for AA and AAA battery types
— powered by micro USB cable
— LEDs show the operating and charging status
— contains: charger, USB cable

Product no.	for model	Input voltage	Output voltage	g
54100062	701, TORSIOTRONIC®	4.75-5.25 V	3.7 V	75

7195-2



Li-Ion battery for No. 714

— max. charging voltage 4.2 V
— capacity: 2.600 mAh
— hazardous goods: Lithium-ion battery according to UN 3481, Class 9

Product no.	for model	Voltage	g
54101195	714	4.2 V	74

7160



Charging dock for Li-Ion battery No. 7195-2

— incl. power adaptor
— input: 100-240 V AC
— output: 4.2 V DC
— charging time: 4 hours
— with interchangeable power outlet adaptors

Product no.	Output voltage	g
54100060	4.2 V	440

7761



Interface adaptor

— required for automatic calibration and adjustment of the electronic/electromechanical torque and angle-controlled torque wrenches with micro USB interface and with the calibration and adjustment systems perfectControl® No. 7794-2, 7794-3

Product no.		g
52110061		26

7761/3



Interface adaptor set

— required for automatic calibration and adjustment of the electronic/electromechanical torque and angle-controlled torque wrenches with micro USB interface and with the calibration and adjustment systems perfectControl® No. 7794-2, 7794-3

Contains 3-pieces:

1 interface adaptor **No. 7761**
1 jack-push/pull cable **No. 7752**
1 power supply unit with interchangeable power outlet adaptors **No. 7760**

Product no.	Content pcs.	g
96521161	3	255

7751



Jack cable

— with 3.5 mm jack plug at each end
— angled 90°

Product no.	for model	L m	g
52110051	7721, 7722, 7723, 7724, 7757-1, 7707 W	1.5	50

7751-1



Jack-push/pull cable

— connection between laboratory transducers No. 7728 and USB adaptor or display device.
— with jack plug angled at 90° and push/pull connector

Product no.	for model	L m	g
52110054	7728	1.5	38

7751-3



Jack-push/pull cable, short

— with jack plug angled at 90° and push/pull connector

Product no.	for model	L m	g
52110058	7728	0.25	18

7752



Jack cable
- connection between the transducer and the display device or USB adaptor
- with jack plugs, angled by 90° on one side

Product no.	for model	L m	g
52110052	7721.7722,7723.7724, 7757-1, 7707 W	2	35

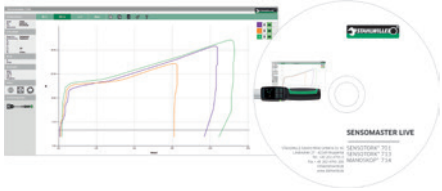
7760



Power supply
- regulated switching power supply AC/DC power supply AC adaptor
- input: 110-240 V AC
- output: 9 V DC
- with interchangeable power outlet adaptors

Product no.	for model	Input voltage	g
52110056	7750	110-230 V	201

7732-2



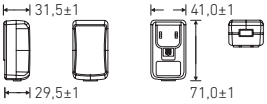
SensoMaster software license
- recording of screw tightening with the MANOSKOP® 714, SENSOTORK® 713R (from firmware 4.X), SENSOTORK® 701 and TORSIOTRONIC®
- representation of torque over time, angle of rotation over time, torque over angle of rotation
- displays multiple curves at the same time
- export data for further processing
- single-user licence

Product no.	for model	g
96585235	714, 713R, SENSOTORK® 701, TORSIOTRONIC®	111

7763



USB power supply
- regulated switching power supply AC/DC power supply AC adaptor
- input voltage 100-240 V, 50-60 Hz
- max. input current 0.3 A
- max. output power 10 watts
- output voltage: 5-5.2 V
- efficiency: USA DOE Level VI / Ecodesign Directive 2009/125/EC, (EU) 2019/1782
- protection against water penetration when used indoors



Product no.	for model	Input voltage	Output voltage	g
52110063	SmartCheck; 7162	100-240 V	5-5.2 V	108

7757-1



USB adaptor
- USB Type-A adaptor to Ø 3.5 mm jack socket

Product no.		g
52111057		10

TorkMaster
Simple, professional calibration.

— adjustment of torque wrenches and torque screwdrivers, calibration according to recognised standards and the creation of declarations of conformity and calibration certificates in accordance with DIN EN ISO 6789, the STAHLWILLE TorkMaster software enables all of this
— with maximum safety and minimum effort for the user.
— all data is automatically stored securely, and the calibration is fully documented
— the optional CAQ interface enables connection to your primary CAQ system, which thus has access to all test data at all times

7759-4



USB adaptor, jack cable and TorkMaster software
Connection between perfectControl® or the transducer (No. 7721-7724) and the PC. For adjustment and calibration of torque wrenches and torque screwdrivers. For creating calibration certificates according to DIN EN ISO 6789. These can be printed or saved as a PDF file.
— 'as found' and 'as left' calibrations can be documented
— graphical display of loading curves
— user management
— 17 languages
— test resource manager
System requirements: PC, Microsoft Windows operating system, USB port

Product no.	L m	⚖ g
96583629	1.5	65

7759-6



USB adaptor, jack-push/pull cable and TorkMaster software
Connection between perfectControl® or the laboratory transducer (No. 7728) and the PC. For adjustment and calibration of torque wrenches and torque screwdrivers. For creating calibration certificates according to DIN EN ISO 6789. These can be printed or saved as a PDF file.
— 'as found' and 'as left' calibrations can be documented
— graphical display of loading curves
— user management
— 17 languages
— test resource manager
System requirements: PC, Microsoft Windows operating system, USB port

Product no.	L m	⚖ g
96583631	1.5	72

7759-5



USB adaptor, jack cable and SensoMaster 4 software
— SensoMaster 4 software for electronic and electromechanical STAHLWILLE torque wrenches
— intuitive user interface with a clear tabular structure
— quick and easy programming of electronic and electromechanical torque wrenches
— enables extensive evaluations, such as those used in quality assurance
— read out saved wrench data and saved bolted joints: screw connection identification number, tool serial number, date, and time of tightening, set point torque or set point angle of rotation, target torque, tightening torque or angle of rotation reached, tolerances, bolted joint evaluation
— save the bolted joints to a database
— delete and print selected bolted joints from the database
— export the displayed bolted joints to different formats
— user management
— change PIN
— delete bolted joints stored in the wrench
System requirements: PC, Microsoft Windows operating system, USB port

Product no.	L m	⚖ g
96583630	1.5	65

7750



Display
- to display the torque
- units of measurement: N·m, ft·lb, in·lb
- modes: Track, Peak Hold, First Peak (for hand tightening only)
- with backlighting for better display of readings
- display of both the first-peak and peak torque on clicking torque wrenches
- can be swivelled to any position via ball joint

Product no.	for model	g
52100050	7707, 7721, 7722, 7723, 7724, 7728	182

MADE IN GERMANY

For more than 160 years, the STAHLWILLE brand has been synonymous with premium tools. From its foundation by Eduard Wille to the present day, our goal has always been the same: to manufacture tools that set the standard and that are 'Made in Germany'.

7161



QuickRelease safety locks
- prevents removal of the insert tools
- is locked with a safety screw on the head of the torque wrench
- after assembly, the insert tool can be inserted but not removed
- interchangeable insert tools can be used again after loosening the safety screw
- a TORX® screwdriver with hole in the tip (No. 4656, T20, product no. 46563020) or a screwdriver bit with hole in the tip (No. 1442, T20, product no. 08160020) can be used to operate the safety screw
- for other torque wrenches on request

Product no.	Size	for model	L mm	g
54100070	1	714/1-4	26	4
54100071	2	712R/6; 713R/6; 714/6-10; 730/10 Quick; 730/10 Fix; 730N/10; 730D/10	27	5
54100072	3	713R/20-40; 714/20-40; 730/12-40 Quick; 730/12-40 Fix; 730N/12-40; 730D/20-40	35	11
54100073	4	730/5 Quick; 730/5 Fix; 730N/5	32	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	50	30

1299



Screwdriver bit
- for hex socket screws
- to operate the adjustment screws on torque wrenches No. 720, 721, 721 Quick, 730, 730 Quick, 730N, 730 Fix
- hex head DIN 3126 / ISO 1173

Product no.	● "	L mm	g
08090002	1/4	34	4

7301/7302



Plastic boxes, empty

— for safe storage and transport of torque wrenches
— matching foam inserts are available separately
— with practical carrying handle
— made of robust plastic, resistant to most common oils, greases and fuels

Product no.	for model	L mm	W mm	H mm	g
81370002	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	81	66	425
81370003	713R/20; 714/20; 721/30 Quick; 730/40 Quick; 730/40 Fix; 730N/40; 730D/20	680	81	66	535

7303/7304

Inserts for plastic boxes

— precisely fitting foam inserts for safe transport and storage of torque wrenches

Product no.	for model	L mm	W mm	H mm	g
83071004	721/5-20 Quick; 730/5-20 Quick; 730/5-20 Fix; 730N/5-20; 730D/10	545	60	48	60
83071002	713R/20; 721/30 Quick; 730/40 Quick; 730/40 Fix; 730N/40; 730D/20	675	55	75	81

TOOLS THAT
... inspire

7311/7312



Plastic boxes, empty

— for safe storage and transport of transducers
— supplied without inlay, foam inlays are available separately
— with practical carrying handle
— made of robust plastic, resistant to most common oils, greases, and fuels

Product no.	for model	L mm	W mm	H mm	g
81500003	7721; 7722; 7723; 7728 1-20	291	100	252	554
81500004	7724-1; 7728 40-100	390	147	310	1346

7313/7314

Inserts for plastic boxes

— precisely fitting foam inserts for safe transport and storage of transducers

Product no.	for model	L mm	W mm	H mm	g
83071030	7721; 7722; 7723; 7728 1-20	275	207	70	77
83071031	7724-1; 7728 40-100	360	250	105	242

TWBE



Textile cases for large torque wrenches

— to safely store and transport large torque wrenches

Product no.	Model	for model	L mm	W mm	H mm	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	1030	90	50	670
81231101	TWBE 80	714/80; 71/80; 71aR/80; 720Nf/80; 721Nf/80; 730/80; 730D/80	1150	90	50	714
81231102	TWBE 100	714/100; 730N/80; 730/80 Fix; 730N/100; 730D/100	1500	90	50	760
81231103	TWBE 721NF/100	721Nf/100	900	140	50	850

TORQUE TOOL SETS.

TORSIOTRONIC® 10/29



Torque screwdriver sets

Key features of torque screwdriver TORSIOTRONIC®

— electromechanical, indicating and clicking type
— for clockwise and counter-clockwise tightening
— visual, acoustic, and haptic stop signal
— with 1/4" external square drive (6.3 DIN 3120/ISO 1174-1) and integrated ratchet function with 80 teeth, ratchet angle of 4.5°, for 1/4" sockets
— after triggering, the clutch mechanism prevents unintended overshooting of the set tightening torque and overtightening of the screw is not possible
— bright and energy-efficient OLED - colour display readable from virtually any angle
— optical evaluation of the applied torque by traffic light colours on the display and side mounted LEDs
— supported languages: DE, EN, IT, FR, ES
— stores up to 2,500 joint and sequence results, for transfer to the PC via an integrated micro-USB interface
— tolerances for evaluation purposes can be set individually
— short training time thanks to intuitive controls and an easy-to-understand menu structure
— three operating modes (Click, Track, Peak-Hold)
— bolted joints and sequences can be programmed
— with a 1/4" inner square at the end of the handle (6.3 DIN 3120/ISO 1174-1) for accommodating a 1/4" T-handle
— units of measurement: cN·m, N·m, ft·lb, in·lb, in·oz
— the GEN3 version can charge the installed battery via the micro USB cable
— long battery life with battery-saving standby mode
— the batteries are quick and easy to change
— supplied with 3.6 V lithium battery, type 18650, packaged according to UN 3481
— with 2-component handle
— patented
— in a sturdy plastic box
— calibration certificate in accordance with DIN EN ISO 6789-2:2017
— **accuracy ± 4%**

Contains:

1 electromechanical torque screwdriver 1/4" **No. TORSIOTRONIC® 10**: measurement range: 100-1,000 cN·m
8 sockets with hex 1/4" **No. 40**: 4; 5; 5.5; 6; 7; 8; 9; 10 mm
3 bits PHILLIPS® 1/4" **No. PH 1221-1223**: PH1; PH2, PH3
3 bits POZIDRIV® 1/4" **No. PZ 1221-1223**: PZ1; PZ2, PZ3
4 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6 mm
5 screwdriver sockets TORX® 1/4" **No. 44KTX**: T8; T9; T10; T15; T20
5 screwdriver sockets TORX® with hole 1/4" **No. 44 KTXB**: T8; T9; T10; T15; T20
1 bit holder 1/4" **No. 412**
+ sturdy plastic box, SensoMaster 4, USB cable, T-handle (size 10), battery 3.6 V, type 18650, packed in accordance with UN 3481

Product no.	L mm	W mm	H mm	Content pcs.	g
96510000	420	227	70	29	2000
96510001 [1]	420	227	70	28	2000

[1] 96510001 - version as 96510000, but without battery **(not hazardous goods)**

701/32/1



Torque tool sets with SENSOTORK®

Key features of torque wrench No. 701/2

— idicating type
— with permanently installed fine-tooth ratchet
— 80 teeth allow for a working angle of just 4.5° - enabling you to work efficiently, even in the tightest spaces
— with QuickRelease safety lock
— very slim and compact design for small torques from 1-20 N·m
— measurement independent of the point of force application
— units of measurement: N·m, cN·m, ft·lb, in·lb
— optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
— results can be documented (with SensoMaster), evaluation of bolted joint by coloured LEDs, buzzer, and vibration
— supplied with 3.6 V lithium-metal battery, type 14500, packaged according to UN3091, Class 9
— adjustable joint parameters
— with 2-component handle
— in a sturdy plastic box
— calibration certificate in accordance with DIN EN ISO 6789-2:2017
— **accuracy ± 4%**

Contains 32-pieces:

1 torque wrench 1/4" **No. 701/2**: measurement range: 1-20 N·m
11 sockets with hex 1/4" **No. 40**: 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm
1 QuickRelease extension 1/4" **No. 405QR**: L. 54 mm
1 bit holder 1/4" **No. 412**
3 bits PHILLIPS® 1/4" **No. PH 1221-1223**: PH1; PH2; PH3
3 bits POZIDRIV® 1/4" **No. PZ 1221-1223**: PZ1; PZ2; PZ3
4 bits hex 1/4" **No. 1301-1304**: 4; 5; 6; 8 mm
7 bits TORX® 1/4" **No. 1414-1420**: T10; T15; T20; T25; T27; T30; T40
1 USB cable **No. 7754**

Product no.	L mm	W mm	H mm	Content pcs.	g
96090005	320	135	55	32	923
96090006 [1]	320	135	55	32	923

[1] 96090006 - version as 96090005, but without battery **(not hazardous goods)**

Rad-Set 701



Bicycle tool set
- high quality bicycle tools for standard screw profiles: hex socket, hex and TORX®
- mobile bicycle service kit in practical textile bag with STAHLWILLE logo, for easy and secure attachment to the frame

Key features of torque wrench No. 701/2
- idicating type
- with permanently installed fine-tooth ratchet
- 80 teeth allow for a working angle of just 4.5° - enabling you to work efficiently, even in the tightest spaces
- with QuickRelease safety lock
- very slim and compact design for small torques from 1-20 N·m
- measurement independent of the point of force application
- units of measurement: N·m, cN·m, ft·lb, in·lb
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- results can be documented (with SensoMaster), evaluation of bolted joint by coloured LEDs, buzzer, and vibration
- supplied with 3.6 V lithium-metal battery, type 14500, packaged according to UN3091, Class 9
- adjustable joint parameters
- with 2-component handle
- in a sturdy plastic box
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4%**

Contains 18-pieces:

1 torque wrench 1/4" **No. 701/2**: measurement range: 1-20 N·m
1 USB cable **No. 7754**
3 double open-ended spanners **No. 12**: 6 x 6; 7 x 7; 10 x 10 mm
5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm
5 screwdriver sockets TORX® 1/4" **No. 44KTX**: T10; T15; T20; T25; T27
1 mini QuickRelease fine-tooth ratchet 1/4" **No. 418QR**: L. 90 mm
1 QuickRelease extension 1/4" **No. 405QR**: L. 54 mm
1 mini water pump pliers **No 6515**: L. 125 mm

Product no.	L mm	W mm	H mm	Content pcs.	g
96500001	230	102	40	18	692

Rad-Set 730/2



Bicycle tool set
- high quality bicycle tools for standard screw profiles: hex socket, hex and TORX®
- mobile bicycle service kit in practical textile bag with STAHLWILLE logo, for easy and secure attachment to the frame

Key features of torque wrench No. 730/2 Quick
- clicking type with dual stop signal
- no reset to '0' required
- the measuring element is only under load when a force is applied.
- mount for interchangeable insert tools
- with QuickRelease safety lock
- non-slip adjuster with thumb recess for quick torque adjustment
- fine, tapered pointers
- counter-clockwise tightening by turning the insert tool over
- clicking mechanism insensitive to continuous loads and counter-loads (up to the max. measurement range of the torque wrench)
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- easy adjustment without disassembly via 2 external adjustment screws
- with 2-component handle
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4%**

Contains 18-pieces:

1 torque wrench MANOSKOP® **No. 730/2 QUICK**: measurement range: 4-20 N·m
1 QuickRelease ratchet insert tool 1/4" **No. 735/4:** 60 teeth
3 double open-ended spanners **No. 12**: 6 x 6; 7 x 7; 10 x 10 mm
5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm
5 screwdriver sockets TORX® 1/4" **No. 44KTX**: T10; T15; T20; T25; T27
1 mini QuickRelease fine-tooth ratchet 1/4" **No. 418QR**: L. 90 mm
1 QuickRelease extension 1/4" **No. 405QR**: L. 54 mm
1 mini water pump pliers **No 6515**: L. 125 mm

Product no.	L mm	W mm	H mm	Content pcs.	g
96500002	230	102	40	18	692

721QR/20/3/1 Quick



Wheel change set
- high-quality tool set specially designed for wheel changes
- in a sturdy plastic box

Key features of torque wrench No. 721QR/20 Quick
- clicking type with dual stop signal
- quick adjustment thanks to easy-to-operate locking lever in handle
- with permanently installed QuickRelease ratchet
- 36 teeth
- with QuickRelease safety lock
- no reset to '0' required
- the measuring element is only under load when a force is applied
- dual scale N·m/ft·lb
- non-slip adjuster with thumb recess for quick torque adjustment
- clicking mechanism insensitive to continuous loads and counter-loads (up to the max. measurement range of the torque wrench)
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- easy adjustment without disassembly via 2 external adjustment screws
- for controlled clockwise tightening
- with 2-component handle
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4%**

Contains 5-pieces:

1 torque wrench standard MANOSKOP® with QuickRelease ratchet 1/2" **No. 721QR/20 Quick**: measurement range: 40-200 N·m; 30-150 ft·lb
3 IMPACT wheel nut sockets with hex 1/2" **No. 51IMP K**: 17 mm (green); 19 mm (blue); 21 mm (red)
1 QuickRelease extension 1/2" **No. 509QR**: L. 130 mm

Product no.	L mm	W mm	H mm	Content pcs.	g
96507214	550	81	66	5	2818

750NR/200/3/1



Wheel change set
- high-quality tool set specially designed for wheel changes
- in a sturdy plastic box

Key features of torque wrench No. 750NR/200
- clicking type with dual stop signal
- with permanently installed, reversible fine-tooth ratchet
- 60 teeth
- resilient, long-lasting spring mechanism
- fast, precise adjustment with QuickSelect quick adjustment
- for controlled clockwise tightening
- clicking mechanism insensitive to continuous loads and counter-loads (up to the max. measurement range of the torque wrench)
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- fixing of the specified torque via a detent
- dual scale N·m/ft·lb
- ready for operation again immediately after release
- for maximum measuring accuracy and a long service life, it is recommended to reset the torque wrench to '0' after use
- with 2-component handle
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4%**

Contains 5-pieces:

1 torque wrench with fine-tooth ratchet 1/2" **No. 750NR/200**: measurement range: 40-200 N·m; 30-145 ft·lb
3 IMPACT wheel nut sockets with hex 1/2" **No. 51IMP K**: 17 mm (green); 19 mm (blue); 21 mm (red)
1 extension 1/2" **No. 509/5**: L. 130 mm

Product no.	L mm	W mm	H mm	Content pcs.	g
96507216	680	81	66	5	2940

TOOLS THAT ... inspire

730R/40/32 Quick



Torque wrench set

— for general maintenance work
— in steel case

Key features of torque wrench No. 730/40 Quick

— clicking type with dual stop signal
— no reset to '0' required, as the measuring element is only under load when a force is applied
— mount for interchangeable insert tools
— with QuickRelease safety lock
— Quick adjustment thanks to easy-to-operate locking lever in handle
— non-slip adjuster with thumb recess for quick torque adjustment
— double scale N·m/ft·lb or N·m/in·lb
— also available on request as a N·m only version without dual scale
— counter-clockwise tightening by turning the insert tools over
— clicking mechanism insensitive to continuous loads and counter-loads (up to the max. measurement range of the torque wrench)
— optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
— easy adjustment without disassembly via 2 external adjustment screws
— with 2-component handle
— calibration certificate in accordance with DIN EN ISO 6789-2:2017
— **accuracy ± 4%**

Contains 32-pieces:

1 torque wrench Service MANOSKOP® **No. 730R/40 Quick**: measurement range: 80-400 N·m
1 ratchet insert tool, reversible 1/2" **No. 735/20**: 60 teeth
1 square drive insert tool 1/2" **No. 734/20**
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 with bi-hex 1/2" **No. 50**: 13; 14; 15; 17; 19; 22; 24; 27; 30; 32 mm
1 T-handle 1/2" **No. 506**: L 300 mm
3 extensions 1/2" **No. 509**: L. 55; 130; 255 mm

Product no.	L mm	W mm	H mm	Content pcs.	g
96502053	640	240	60	32	9739



ACHIEVE THE CORRECT TIGHTENING TORQUE – even when using insert tools with an extended length.

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 adaptors are combined with inserts or special tools, use the sum of the extensions = Σ S. Where the special tool is angled to the side, adjusted reading or setting value W_K will have to be determined empirically.

$$W_K = \frac{M_A \cdot L_F}{L_K} \left[\frac{N{\cdot}m \cdot mm}{mm}\right]$$

$$W_K = \frac{M_A \cdot L_F}{L_F - S_F + S \text{ (bzw. } \Sigma S)}$$

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 Σ S)

S = Extension of STAHLWILLE inserts or special tools (see dimension table for inserts)

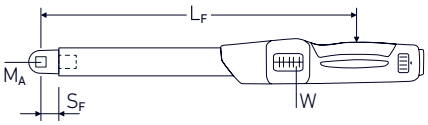
S_F = Standard extension (see dimension table for torque wrenches)

ΣS = Total of all extensions of the attached inserts $S_{adaptor}+S_{insert}+...$



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 N·m

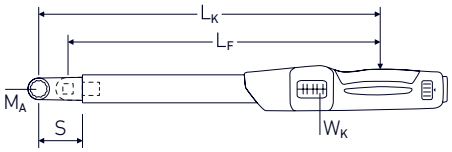


Dimension table for torque wrenches: S_F = 17.5 mm, L_F = 336 mm
Dimension table for square drive insert tools: S = 17.5 mm

No adjustment to setting value required on torque wrench. → S = S_F → 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 N·m



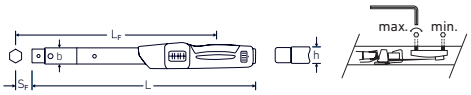
Dimension table for torque wrenches: S_F = 25 mm, L_F = 424.5 mm
Dimension table for ring insert tools: S = 28 mm

And this is what it looks like in the catalogue:

730N



Service MANOSKOP® torque wrench
- dual scale N·m/in·lb
- with holder for interchangeable insert tools
- with QuickRelease safety lock
- counter-clockwise tightening by turning the insert tools over
- **accuracy ± 4**



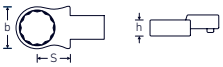
Product no.	Size	N·m	in·lb	N·m	in·lb	fine scale	mm	L_F mm	S_F mm
50181005	5	10-50	7-37	5	1	0,25 N·m	9 x 12	280,5	17,5
50181010	10	20-100	15-75	10	2,5	0,5 N·m	9 x 12	336	17,5
50181012	12	25-130	20-95	10	2,5	0,5 N·m	14 x 18	379	25
50181020	20	40-200	30-150	10	5	1 N·m	14 x 18	424,5	25
50181040	40	80-400	60-300	20	10	2 N·m	14 x 18	564,5	25
50181065 *	65	130-650	100-480	50	20	2,5 N·m	14 x 18	848	25
50181365	II/65	130-650	100-480	50	20	2,5 N·m	22 x 28	900	55
50181080	80	160-800	120-600	100	25	5 N·m	22 x 28	1167	55
50181100	100	200-1000	150-750	100	25	5 N·m	22 x 28	1352	55

L_F S_F

$$W_K = \frac{M_A \cdot L_F}{L_F - S_F + S} = \frac{190\ \text{N·m} \cdot 424{,}5\ \text{mm}}{424{,}5\ \text{mm} - 25\ \text{mm} + 28\ \text{mm}} = \frac{190\ \text{N·m} \cdot 424{,}5\ \text{mm}}{427{,}5\ \text{mm}} = 188{,}7\ \text{N·m}$$

732/40





Product no.	mm	mm	b mm	h mm	S mm
58224013	13	14 x 18	22,5	11	25
58224014	14	14 x 18	23	11	25
58224015	15	14 x 18	24	11	25
58224016	16	14 x 18	25,5	12	25
58224017	17	14 x 18	27	12	25
58224018	18	14 x 18	29	13	25
58224019	19	14 x 18	30,5	13	25
58224021	21	14 x 18	33	15	25
58224022	22	14 x 18	34,5	15	25
58224024	24	14 x 18	37,5	15	25
58224027	27	14 x 18	42,5	17	25
58224028	28	14 x 18	45,5	19	25
58224030	30	14 x 18	46	19	25
58224032	32	14 x 18	47,5	19	25
58224034 *	34	14 x 18	52	19	28
58224036 *	36	14 x 18	54	19	28
58224041 *	41	14 x 18	60	20	30

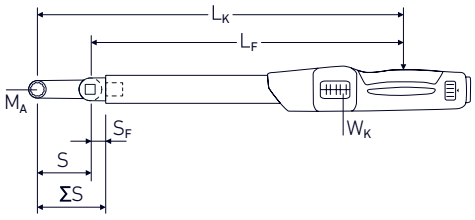
S

Adjusted setting value W_K = 188.7 N·m
→ value to set 189 N·m

→ S ≠ S_F → W ≠ M_A

Example 2: adjusted reading (insert tool and adaptor)

Torque wrench No 730N/10 combined with
square drive insert tool No 734/5 and adaptor No 447 size 10 mm
Required tightening torque for the screw M_A = 25 N·m



Dimension table for torque wrenches: L_F = 336 mm, S_F = 17.5 mm
Dimension table for square drive insert tools: S_F = 17.5 mm
Dimension table for adaptors: Σ S = 50.8 mm

$$W_K = \frac{M_A \cdot L_F}{L_F - S_F + \Sigma S} = \frac{25\ \text{N·m} \cdot 336\ \text{mm}}{336\ \text{mm} - 17.5\ \text{mm} + 17.5\ \text{mm} + 50.8\ \text{mm}} = \frac{25\ \text{N·m} \cdot 336\ \text{mm}}{386.8\ \text{mm}}$$

Adjusted setting value W_K = 21.7 N·m

→ ΣS ≠ S_F → W ≠ M_A

INSERT TOOLS.

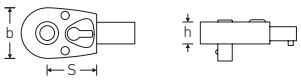
Insert tools for torque wrenches
General information

— external square drives ■ according to DIN 3120
— load capacities on external square drives in accordance with DIN EN ISO 6789
— if larger torque wrenches and tool holders are used, this must not be exceeded

725QR



QuickRelease ratchet insert tools
— for torque wrenches with interchangeable insert system
— reversible
— with QuickRelease safety lock
— size 4: 22 teeth
— sizes 5 and 10: 30 teeth



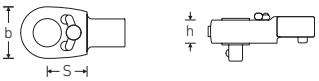
Product no.	Size	■ "	mm	b mm	h mm	S mm	°	max. N·m	g
58253004	4	1/4	9 x 12	22	13.8	17.5	16.4	40	50
58253005 *	5	3/8	9 x 12	29	18	28	12	100	130
58253010 *	10	1/2	9 x 12	29	18	28	12	100	141

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

725B



Bit ratchet insert tools
— for torque wrenches with interchangeable insert system
— reversible
— with internal hex, 1/4" or 5/16", DIN 3126 / ISO 1173 D 6.3 or D8
— for direct mounting of bits with 1/4" or 5/16" external hex C 6.3 or C 8 (size 4: 22 teeth, size 5: 30 teeth)
— hex with collar-thrust spring
— bits are easy to insert, lock securely into place, and can be easily pulled out again; also hex with wide groove (Form E, DIN 3126 / ISO 1173)



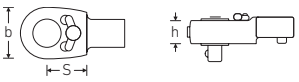
Product no.	Size	mm	b mm	h mm	S mm	°	g
58255004	4	9 x 12	22	13.6	17.5	16.4	54
58255005 *	5	9 x 12	29	17.9	28	12	117

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

725/4



Ratchet insert tool
— for torque wrenches with interchangeable insert system
— reversible
— 22 teeth



Product no.	■ "	mm	b mm	h mm	S mm	°	max. N·m	g
58254004	1/4	9 x 12	22	13.8	17.5	16.4	40	62

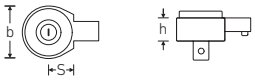


735



Fine-tooth ratchet insert tools

— for torque wrenches with interchangeable insert system
— reversible (also available as a clockwise-only ratchet on request)
— 60 teeth



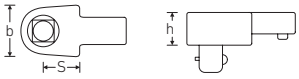
Product no.	Size	■ "	mm	b mm	h mm	S mm	°	max. N·m	g
58250004	4	1/4	9 x 12	24	19	17.5	6	42	82
58250005	5	3/8	9 x 12	33	24	17.5	6	100	150
58250010	10	1/2	9 x 12	33	24	17.5	6	100	147

734



Square drive insert tools

— for torque wrenches with interchangeable insert system
— with secured square drive



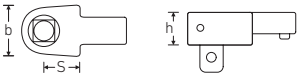
Product no.	Size	■ "	mm	b mm	h mm	S mm	max. N·m	g
58240004	4	1/4	9 x 12	20	14	17.5	40	71
58240005	5	3/8	9 x 12	20	14	17.5	80	76
58240010	10	1/2	9 x 12	20	14	17.5	100	82

734F



Square drive insert tools

— for torque wrenches with interchangeable insert system
— with secured square drive



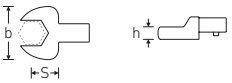
Product no.	Size	■ "	mm	b mm	h mm	S mm	max. N·m	g
58241004	4	1/4	9 x 12	22	14	17.5	40	72
58241005	5	3/8	9 x 12	22	14	17.5	80	75

731/10



Open-ended insert tools

— for torque wrenches with interchangeable insert system
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable



Product no.	mm	mm	b mm	h mm	S mm	g
58211007	7	9 x 12	22	5	17.5	40
58211008	8	9 x 12	22	5	17.5	39
58211009	9	9 x 12	26	5.5	17.5	38
58211010	10	9 x 12	26	5.5	17.5	42
58211011	11	9 x 12	26	5.5	17.5	41
58211012	12	9 x 12	30	7	17.5	43
58211013	13	9 x 12	30	7	17.5	45
58211014	14	9 x 12	35	8	17.5	52
58211015	15	9 x 12	35	8	17.5	51
58211016	16	9 x 12	38	8.5	17.5	58
58211017	17	9 x 12	38	8.5	17.5	60
58211018 *	18	9 x 12	42	9	20	71
58211019 *	19	9 x 12	42	9	20	74

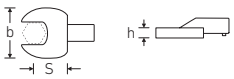
*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

731a/10



Open-ended insert tools

— for torque wrenches with interchangeable insert system
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable



Product no.	"	mm	b mm	h mm	S mm	g
58611016	1/4	9 x 12	22	5	17.5	36
58611020	5/16	9 x 12	22	5	17.5	53
58611024	3/8	9 x 12	26	5.5	17.5	38
58611028	7/16	9 x 12	26	5.5	17.5	37
58611032	1/2	9 x 12	30	7	17.5	44
58611034	9/16	9 x 12	35	8	17.5	49
58611036	5/8	9 x 12	38	8.5	17.5	64
58611038 *	11/16	9 x 12	42	9	20	76
58611040 *	3/4	9 x 12	42	9	20	73

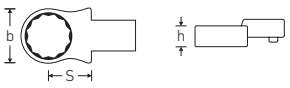
*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

732/10



Ring insert tools

— bi-hex with AS-Drive profile
— for torque wrenches with interchangeable insert system
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable



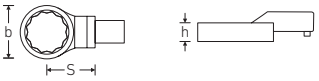
Product no.	mm	mm	b mm	h mm	S mm	g
58221007	7	9 x 12	13	8	17.5	37
58221008	8	9 x 12	14.2	8	17.5	40
58221010	10	9 x 12	17.2	9	17.5	44
58221011	11	9 x 12	18.5	9	17.5	41
58221012	12	9 x 12	20.5	11	17.5	49
58221013	13	9 x 12	21.5	11	17.5	55
58221014	14	9 x 12	22.5	11	17.5	52
58221015	15	9 x 12	24.5	12	17.5	52
58221016	16	9 x 12	26	12	17.5	54
58221017	17	9 x 12	27	13	17.5	59
58221018	18	9 x 12	28	13	17.5	56
58221019	19	9 x 12	30.5	13	17.5	65
58221021	21	9 x 12	33	15	17.5	71
58221022	22	9 x 12	34.5	15	17.5	74

732a/10



Ring insert tools

— bi-hex with AS-Drive profile
— for torque wrenches with interchangeable insert system
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable



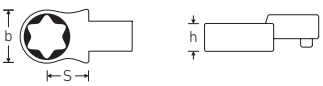
Product no.	"	mm	b mm	h mm	S mm	g
58621016	1/4	9 x 12	13	8	17.5	36
58621020	5/16	9 x 12	14.2	8	17.5	37
58621024	3/8	9 x 12	17.2	9	17.5	37
58621028	7/16	9 x 12	18.5	9	17.5	40
58621032	1/2	9 x 12	21.5	11	17.5	53
58621034	9/16	9 x 12	22.5	11	17.5	52
58621036	5/8	9 x 12	26	12	17.5	54
58621038	11/16	9 x 12	28	13	17.5	58
58621040	3/4	9 x 12	30.5	13	17.5	58
58621042	13/16	9 x 12	33	15	17.5	68
58621044	7/8	9 x 12	34.5	15	17.5	69

732TX/10



TORX® insert tools

— for torque wrenches with interchangeable insert system
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable

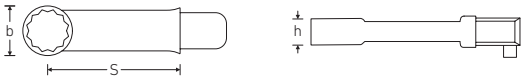


Product no.	Size	mm	b mm	h mm	S mm	g
58291006	E6	9 x 12	13	8	17.5	40
58291008	E8	9 x 12	14.2	8	17.5	45
58291010	E10	9 x 12	17.2	9	17.5	45
58291012	E12	9 x 12	18.5	9	17.5	50
58291014	E14	9 x 12	21.5	11	17.5	60

732G/10



Ring insert tools
- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- HPQ® high-performance steel, gunmetal finish



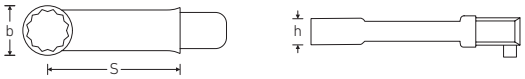
Product no.	mm	mm	b mm	h mm	S mm	g
58620007	7	9 x 12	11.5	6	45	31
58620008	8	9 x 12	12.4	6	45	33
58620009	9	9 x 12	14	8	45	44
58620010	10	9 x 12	15.6	8	45	45
58620013	13	9 x 12	19.3	9.2	45	60

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

732aG/10



Ring insert tools
- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- for the assembly and disassembly of engines
- HPQ® high-performance steel, gunmetal finish



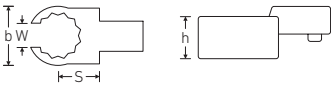
Product no.	"	mm	b mm	h mm	S mm	g
58621216	1/4	9 x 12	10.4	6	45	28
58621220	5/16	9 x 12	12.4	6	45	31
58621224	3/8	9 x 12	14.9	8	45	42
58621228	7/16	9 x 12	17	8	45	43
58621232	1/2	9 x 12	19	9.2	45	58
58621234	9/16	9 x 12	21	9.2	45	58
58621236	5/8	9 x 12	23	12	45	74

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

733/10



OPEN RING insert tools
- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



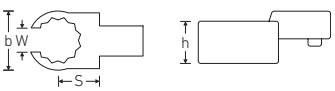
Product no.	mm	mm	b mm	h mm	W	S mm	g
58231010	10	9 x 12	21.5	11	7.1	17.5	57
58231011	11	9 x 12	22.5	11	8.6	17.5	55
58231012	12	9 x 12	24.5	12	9	17.5	59
58231013	13	9 x 12	26	12	10	17.5	55
58231014	14	9 x 12	27	13	11	17.5	60
58231016	16	9 x 12	30.5	13	13	17.5	65
58231017	17	9 x 12	31.5	13	14	17.5	64
58231018	18	9 x 12	33	15	14.8	17.5	74
58231019	19	9 x 12	34	15	15.8	17.5	70
58231021 *	21	9 x 12	38.5	15	16.2	20	88
58231022 *	22	9 x 12	39.5	15	17	20	92
58231024 *	24	9 x 12	40	15	18	20	75

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

733a/10



OPEN RING insert tools
- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



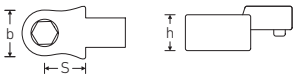
Product no.	"	mm	b mm	h mm	W	S mm	g
58631024	3/8	9 x 12	21.5	11	7.1	17.5	55
58631028	7/16	9 x 12	22.5	11	8.6	17.5	56
58631032	1/2	9 x 12	26	12	9.5	17.5	58
58631034	9/16	9 x 12	27.5	13	11	17.5	59
58631036	5/8	9 x 12	30.5	13	12.7	17.5	61
58631038	11/16	9 x 12	33	15	14	17.5	48
58631040	3/4	9 x 12	34	15	15.8	17.5	76

736



Bit holder insert tools

— hex with collar-thrust spring
— for torque wrenches with interchangeable insert system
— bits are easy to insert, lock securely into place, and can be easily pulled out again
— hex socket DIN 3126 / ISO 1173



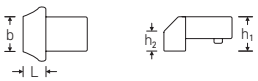
Product no.	Size	○ mm	○ "	mm	b mm	h mm	S mm	g
58261010	10	D 8	5/16	9 x 12	16	12.5	17.5	47
58262610	10-1	D 6.3	1/4	9 x 12	14	10	17.5	45

737/10



Blank end insert tool

— for welding on custom-made tools
— for torque wrenches with interchangeable insert system
— gunmetal finish
— to avoid damage due to high temperatures, the pin and spring must not be fitted before the tool has been welded
— instructions are provided
— material: 1.2208 - 31CRV3



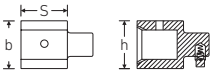
Product no.	Welding dimensions h_2 x b in mm	mm	L mm	h_2 mm	g
58270010	8 x 14	9 x 12	8	14.5	35

7370/10



Insert tool adaptor

— for use with insert tools with an external size of 14 x 18 mm in torque wrenches with an internal insert system of 9 x 12 mm



Product no.	○ mm	mm	L mm	b mm	h mm	S mm	g
58290010	14 x 18	9 x 12	55	31	26	30.5	118

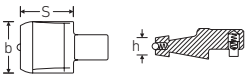
*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

7370/10-2



Insert tool adaptor

— for use with insert tools with a lateral dovetail profile in torque wrenches with an internal system of 9 x 12 mm



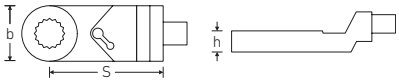
Product no.	■ mm	mm	L mm	b mm	h mm	S mm	g
58290012	9.5 x 23.5	9 x 12	40	23.5	9.5	24	51

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

717



Ratchet ring insert tools
- bi-hex
- for torque wrenches with interchangeable insert system
- reversible
- HPQ® high-performance steel, black gunmetal finish



Product no.	mm	mm	b mm	h mm	S mm	°	max. N·m	g
58170108	8	9 x 12	20	7.5	35	5	34	58
58170110	10	9 x 12	22	7.6	42	5	58	70
58170112	12	9 x 12	25	9.1	42	5	89	90
58170113	13	9 x 12	26	9.4	42	5	100	94
58170117	17	9 x 12	32.5	10.6	52	5	160	114
58170119	19	9 x 12	35.5	11.5	52	5	160	126
58170122	22	9 x 12	42	13.8	52	5	160	166

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

1820



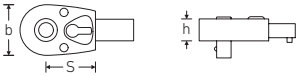
Tool holder/disassembly tool
- tool holder without torque function, with tool carrier for insert tools

Product no.	mm	L mm	g
18200001	9 x 12	382.5	490

725QR/20



QuickRelease ratchet insert tool
- for torque wrenches with interchangeable insert system
- reversible
- with QuickRelease safety lock
- 36 teeth



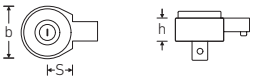
Product no.	Size	■ "	mm	b mm	h mm	S mm	°	max. N·m	g
58253020	20	1/2	14 x 18	41	22.3	38.5	10	200	325

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

735



Fine-tooth ratchet insert tools
- for torque wrenches with interchangeable insert system
- reversible (also available as a clockwise-only ratchet on request)
- 60 teeth



Product no.	Size	■ "	mm	b mm	h mm	S mm	°	max. N·m	g
58250020	20	1/2	14 x 18	43	26	25	6 °	300	302
58250040	40	3/4	14 x 18	50	31.5	25	6 °	400	515
58250065 *	40HD	3/4	14 x 18	58	36	30	6 °	650	725

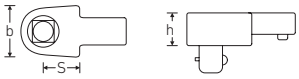
* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)



734



Square drive insert tools
— for torque wrenches with interchangeable insert system
— with secured square drive

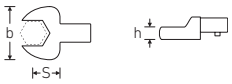


Product no.	Size	■ "	mm	b mm	h mm	S mm	max. N·m	g
58240020	20	1/2	14 x 18	27	18	25	300	205
58240040	40	3/4	14 x 18	40	25	25	650	396

731/40



Open-ended insert tools
— for torque wrenches with interchangeable insert system
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable



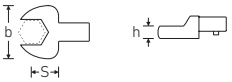
Product no.	mm	mm	b mm	h mm	S mm	g
58214013	13	14 x 18	30	7	25	128
58214014	14	14 x 18	35	8	25	129
58214015	15	14 x 18	35	8	25	132
58214016	16	14 x 18	38	9	25	140
58214017	17	14 x 18	38	9	25	130
58214018	18	14 x 18	42	10	25	147
58214019	19	14 x 18	42	10	25	140
58214021	21	14 x 18	50	11	25	171
58214022	22	14 x 18	50	11	25	165
58214024	24	14 x 18	53	12	25	167
58214025	25	14 x 18	53	12	25	170
58214027 *	27	14 x 18	60	13	30	219
58214030 *	30	14 x 18	66	14	30	275
58214032 *	32	14 x 18	66	14	32.5	246
58214034 *	34	14 x 18	66	14	32.5	239
58214036 *	36	14 x 18	74	15	32.5	275
58214038 *	38	14 x 18	74	15	32.5	265
58214041 *	41	14 x 18	82	15	36.5	307

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

731a/40



Open-ended insert tools
— for torque wrenches with interchangeable insert system
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable



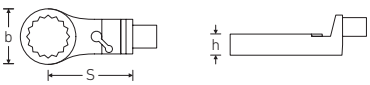
Product no.	"	mm	b mm	h mm	S mm	g
58614028	7/16	14 x 18	30	7	25	127
58614032	1/2	14 x 18	30	7	25	125
58614034	9/16	14 x 18	35	8	25	129
58614036	5/8	14 x 18	38	9	25	136
58614038	11/16	14 x 18	42	10	25	148
58614040	3/4	14 x 18	42	10	25	144
58614042	13/16	14 x 18	50	11	25	171
58614044	7/8	14 x 18	50	11	25	165
58614046	15/16	14 x 18	53	12	25	177
58614048 *	1	14 x 18	60	13	30	224
58614052 *	1 1/8	14 x 18	66	14	30	258

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

718



Ratchet ring insert tools
— bi-hex
— for torque wrenches with interchangeable insert system
— reversible
— HPQ® high-performance steel, black gunmetal finish



Product no.	mm	mm	b mm	h mm	S mm	°	max. N·m	g
58170217	17	14 x 18	32.5	10.6	52	5	200	166
58170219	19	14 x 18	35.5	11.5	52	5	200	182
58170221	21	14 x 18	42	13.8	52	5	330	222
58170222	22	14 x 18	42	13.8	52	5	360	216
58170224	24	14 x 18	47	14.6	52	5	360	252
58170227	27	14 x 18	52	15.6	55	5	360	296

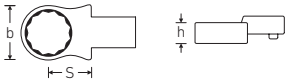
*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

732/40



Ring insert tools

— bi-hex with AS-Drive profile
— for torque wrenches with interchangeable insert system
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable



Product no.	mm	mm	b mm	h mm	S mm	g
58224013	13	14 x 18	22.5	11	25	130
58224014	14	14 x 18	23	11	25	123
58224015	15	14 x 18	24	11	25	128
58224016	16	14 x 18	25.5	12	25	133
58224017	17	14 x 18	27	12	25	135
58224018	18	14 x 18	29	13	25	134
58224019	19	14 x 18	30.5	13	25	145
58224021	21	14 x 18	33	15	25	144
58224022	22	14 x 18	34.5	15	25	145
58224024	24	14 x 18	37.5	15	25	153
58224027	27	14 x 18	42.5	17	25	162
58224028	28	14 x 18	45.5	19	25	175
58224030	30	14 x 18	46	19	25	182
58224032	32	14 x 18	47.5	19	25	181
58224034 *	34	14 x 18	52	19	28	210
58224036 *	36	14 x 18	54	19	28	203
58224041 *	41	14 x 18	60	20	30	240

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

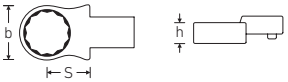


732a/40



Ring insert tools

— bi-hex with AS-Drive profile
— for torque wrenches with interchangeable insert system
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable



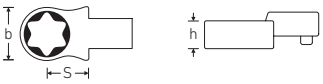
Product no.	"	mm	b mm	h mm	S mm	g
58624032	1/2	14 x 18	22.5	11	25	122
58624034	9/16	14 x 18	23	11	25	122
58624036	5/8	14 x 18	25.5	12	25	134
58624038	11/16	14 x 18	29	13	25	132
58624040	3/4	14 x 18	30.5	13	25	138
58624042	13/16	14 x 18	33	15	25	142
58624044	7/8	14 x 18	34.5	15	25	147
58624046	15/16	14 x 18	37.5	15	25	151
58624048	1	14 x 18	41	17	25	160

732TX/40



TORX® insert tools

— for torque wrenches with interchangeable insert system
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable



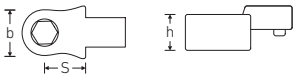
Product no.	Size	mm	b mm	h mm	S mm	g
58294014	E14	14 x 18	22.5	11	25	130
58294018	E18	14 x 18	24	11	25	135
58294020	E20	14 x 18	29	13	25	150
58294024	E24	14 x 18	30.5	13	25	150

736/40



Bit holder insert tool

— for torque wrenches with interchangeable insert system
— hex with collar-thrust spring
— bits are easy to insert, lock securely into place, and can be easily pulled out again



Product no.	○ "	◪ mm	b mm	h mm	S mm	g
58261040	5/16	14 x 18	16	12.5	25	114

737/40



Blank end insert tool

— for welding on custom-made tools
— for torque wrenches with interchangeable insert system
— gunmetal finish
— to avoid damage due to high temperatures, the pin and spring must not be fitted before the tool has been welded
— instructions are provided
— material: 1.2208 - 31CRV3



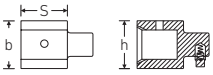
Product no.	Welding dimensions h_2 x b in mm	◪ mm	L mm	h_1 mm	g
58270040	11 x 25	14 x 18	12	21.5	98

7370/40



Insert tool adaptor

— for use with insert tools with an external size of 9 x 12 mm in torque wrenches with an internal insert system of 14 x 18 mm



Product no.	○ mm	◪ mm	L mm	b mm	h mm	S mm	g
58290040	9 x 12	14 x 18	60	28	21	21.5	117

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

7370/40-1



Insert tool adaptor

— for use with 24.5 x 28 mm shell tools with torque wrenches with an internal insert system of 14 x 18 mm

Product no.	■ mm	◪ mm	L mm	b mm	h mm	S mm	g
58290041	24.5 x 28	14 x 18	66	75	20	95.9	251

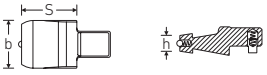
*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

7370/40-2



Insert tool adaptor

— for use with insert tools with lateral dovetail profile in torque wrenches with an internal insert system of 14 x 18 mm



Product no.	■ mm	◪ mm	L mm	b mm	h mm	S mm	g
58290042	9.5 x 31.5	14 x 18	50	31.5	9.5	34.6	138

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

1821



Tool holder/disassembly tool

— tool holder without torque function, with tool carrier for insert tools

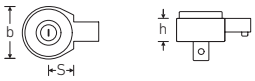
Product no.	mm	L mm	g
18210001	14 x 18	575	720

735/65



Fine-tooth ratchet insert tool

— for torque wrenches with square drive
— reversible
— 60 teeth



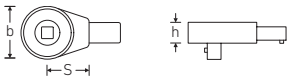
Product no.	■ "	mm	b mm	h mm	S mm	°	max. N·m	g
58251065	3/4	22 x 28	61	35	55	6	650	1115

735/100



Ratchet insert tool

— for torque wrenches with interchangeable insert system
— with push-through square drive
— 30 teeth



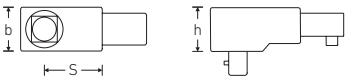
Product no.	■ "	mm	b mm	h mm	S mm	°	max. N·m	g
58250100	3/4	22 x 28	76	42	55	12	1000	1893

734/100



Square drive insert tool

— for torque wrenches with interchangeable insert system
— with push-through square drive



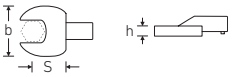
Product no.	■ "	mm	b mm	h mm	S mm	g
58240100	3/4	22 x 28	43	42	55	1175

731/100



Open-ended insert tools

— for torque wrenches with interchangeable insert system
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable



Product no.	mm	mm	b mm	h mm	S mm	g
58211024	24	22 x 28	50	13	55	618
58211027	27	22 x 28	56	14	55	640
58211030	30	22 x 28	63	15	55	690
58211032	32	22 x 28	67	15	55	705
58211034	34	22 x 28	72	15	55	731
58211036	36	22 x 28	74	15	55	713
58211041	41	22 x 28	84	16	55	894
58211046	46	22 x 28	94	17	55	934
58211050	50	22 x 28	104	18	55	1073
58211055	55	22 x 28	114	19	55	1172
58211060	60	22 x 28	124	20	55	1241

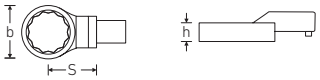
TOOLS THAT
... inspire

732/100



Ring insert tools

— bi-hex with AS-Drive profile
— for torque wrenches with interchangeable insert system
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable



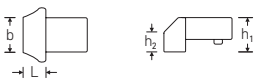
Product no.	○ mm	mm	b mm	h mm	S mm	g
58221024	24	22 x 28	43	15	55	616
58221027	27	22 x 28	43	15	55	609
58221030	30	22 x 28	46	16	55	617
58221032	32	22 x 28	49	16	55	611
58221034	34	22 x 28	52	17	55	627
58221036	36	22 x 28	54	17	55	620
58221041	41	22 x 28	61	18	55	630
58221046	46	22 x 28	66	19	55	628
58221050	50	22 x 28	75	20	55	701
58221055	55	22 x 28	84	21	55	776
58221060	60	22 x 28	93	22	55	867

737/100



Blank end insert tool

— for welding on custom-made tools
— for torque wrenches with interchangeable insert system
— gunmetal finish
— to avoid damage due to high temperatures, the pin and spring must not be fitted before the tool has been welded
— instructions are provided
— material: 1.2208 - 31CRV3



Product no.	Welding dimensions h_2 x b in mm	mm	L mm	h_1 mm	g
58270100	15 x 50	22 x 28	24	32	483

7370/100



Insert tool adaptor

— for use with 24.5 x 28 mm shell tools with torque wrenches with an internal insert system of 22 x 28 mm

Product no.	■ mm	mm	L mm	b mm	h mm	S mm	g
58291100	24.5 x 28	22 x 28	85	33	30	100	421

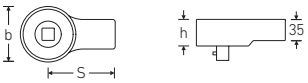
*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

735/80



Ratchet shell tool

— for torque wrenches with a carrier for shell tools
— with push-through square drive
— 30 teeth



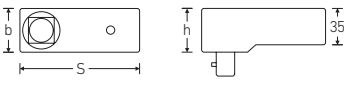
Product no.	■ "	mm	b mm	h mm	S mm	°	g
58250080	3/4	24.5 x 28	76	43	95	12	1930

734/80



Square drive shell tool

— for torque wrenches with a carrier for shell tools
— with push-through square drive



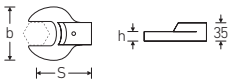
Product no.	■ "	mm	b mm	h mm	S mm	g
58240080	3/4	24.5 x 28	49	42	95	1200

731/80



Open-ended shell tools

— for torque wrenches with a carrier for shell tools
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable



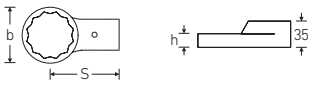
Product no.	mm	mm	b mm	h mm	S mm	g
58218024	24	24.5 x 28	50	13	95	601
58218027	27	24.5 x 28	56	14	95	620
58218030	30	24.5 x 28	63	15	95	655
58218032	32	24.5 x 28	67	15	95	670
58218034	34	24.5 x 28	72	15	95	699
58218036	36	24.5 x 28	74	15	95	620
58218041	41	24.5 x 28	84	16	95	810
58218046	46	24.5 x 28	94	17	95	867
58218050	50	24.5 x 28	104	18	95	1010
58218055	55	24.5 x 28	114	19	95	1150
58218060	60	24.5 x 28	124	20	95	1325

732/80



Ring shell tools

— bi-hex with AS-Drive profile
— for torque wrenches with a carrier for shell tools
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable



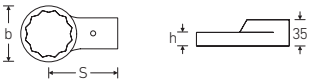
Product no.	mm	mm	b mm	h mm	S mm	g
58228024	24	24.5 x 28	36	15	95	605
58228027	27	24.5 x 28	40.5	15	95	610
58228030	30	24.5 x 28	46	16	95	630
58228032	32	24.5 x 28	49	16	95	635
58228034	34	24.5 x 28	52	17	95	650
58228036	36	24.5 x 28	54	17	95	650
58228041	41	24.5 x 28	61	18	95	675
58228046	46	24.5 x 28	66	19	95	700
58228050	50	24.5 x 28	75	20	95	750
58228055	55	24.5 x 28	84	21	95	800
58228060	60	24.5 x 28	93	22	95	850

732a/80



Ring shell tools

— bi-hex with AS-Drive profile
— for torque wrenches with a carrier for shell tools
— special chromium over nickel plating, durable and chip-proof finish
— drop-forged, hardened, and cooled in an oil bath
— extremely strong, exceptionally durable
— for power pack bolts (Airbus A320/A321)



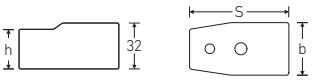
Product no.	"	mm	b mm	h mm	S mm	g
58628046	$^{15}/_{16}$	24.5 x 28	36	14	95	604
58628050	1 $^{1}/_{16}$	24.5 x 28	40.5	14	95	608

7370/80



Shell adaptor

— for torque wrenches with an attachment for insert tools
— for use with 14 x 18 mm insert tools with torque wrenches with an internal insert system of 24.5 x 28 mm



Product no.	mm	mm	b mm	h mm	S mm	g
58290080	24.5 x 28	14 x 18	36	26	70	300

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

1822



Tool holder/disassembly tool

tool holder without torque function, with carrier for shell tools

Product no.	mm	L mm	g
18220003	24.5 x 28	1000	2057

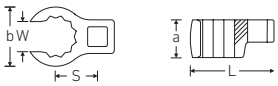
440



Crowring spanners

— bi-hex with AS-Drive profile

— Chrome Alloy Steel, chrome-plated



Product no.	mm	"	L mm	b mm	a mm	W	S mm	g
01190008	8	1/4	23.8	12.7	8	6.3	12.3	11
01190009	9	1/4	28.5	18.2	13.5	6.7	14	21
01190010	10	1/4	28.4	18.2	13.5	7.1	14	16
01190011	11	1/4	28	18.2	13.5	8.6	14	17
01190012	12	1/4	30.8	20.6	14	9	15.7	20
01190013	13	1/4	32	22.2	14	10	16.4	30
01190014	14	1/4	31.7	22.2	14	11.1	16.4	20
02190015	15	3/8	36.5	24.6	17.5	11.9	19.1	34
02190016	16	3/8	36.1	24.6	17.5	13	19.1	27
02190017	17	3/8	39.2	27.3	17.5	14	20.5	40
02190018	18	3/8	40.8	29	18.5	14.8	21.3	45
02190019	19	3/8	40.5	29	18.5	15.8	21.3	40
02190020	20	3/8	42.9	31.3	18.5	15.8	22.5	54
02190021	21	3/8	42.8	31.3	18.5	16.2	22.5	45
02190022	22	3/8	45.3	33.5	19	17	23.6	57
02190023	23	3/8	47.5	35.7	19.5	17.5	24.6	71
02190024	24	3/8	47.3	35.7	19.5	18	24.6	57
02190025	25	3/8	49.3	37.7	20	19	25.7	80
02190026	26	3/8	49.3	37.7	20	19	25.7	63
02190027	27	3/8	52.8	40	21.4	20	28.2	100
03190028	28	1/2	56.8	42.1	22.5	21	29.3	120
03190030	30	1/2	63	48	22.5	22	32.5	155
03190032	32	1/2	62.5	48	22.5	24	32.5	145
03190034	34	1/2	64.2	50	24	27	33.5	146
03190036	36	1/2	66.5	51.9	24	27	34.6	150
03190038	38	1/2	68.1	53.9	24	28.6	35.6	147
03190040	40	1/2	71.8	57.9	24.5	31	37.7	160
03190041	41	1/2	71.8	57.9	24.5	31	37.7	169
03190042	42	1/2	71	57.9	24.5	33.2	37.7	189
03190046	46	1/2	77.7	64.2	26	34.1	40.9	215
03190050	50	1/2	83.2	70.5	27.5	39.7	44.1	295

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

440a

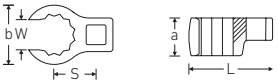


Crowring spanners

— bi-hex with AS-Drive profile

— Chrome Alloy Steel, chrome-plated

— 3/8" for Volvo aircraft engine, type 'JAS'



Product no.	"	"	L mm	b mm	a mm	W	S mm	g
01490024	3/8	1/4	28.4	18.2	13.5	7.1	14	16
01490028	7/16	1/4	28	18.2	13.5	8.6	14	14
01490032	1/2	1/4	30.5	20.6	14	10	15.7	19
01490034	9/16	1/4	31.7	22.2	14	11.1	16.4	23
02490036	5/8	3/8	36.5	24.6	17.5	11.9	19.1	33
02490038	11/16	3/8	39.2	27.3	17.5	14	20.5	36
02490040	3/4	3/8	40.9	29	18.5	14.2	21.3	44
02490042	13/16	3/8	42.9	31.3	18.5	15.8	22.5	51
02490044	7/8	3/8	45.2	33.5	19	17.5	23.6	62
02490046	15/16	3/8	47.2	35.7	19.5	18.3	24.6	63
02490048	1	3/8	49.3	37.7	20	19	25.7	71
02490050	1 1/16	3/8	52.8	40	21.4	20	28.2	84
03490052	1 1/8	1/2	56.8	42.1	22.5	21	29.3	110
03490056	1 1/4	1/2	62.5	48	22.5	23.8	32.5	137
03490058	1 5/16	1/2	62.3	48	22.5	24.6	32.5	130
03490060	1 3/8	1/2	64.2	50	24	27	33.5	138
03490062	1 7/16	1/2	66.5	51.9	24	27	34.6	143
03490064	1 1/2	1/2	68.1	53.9	24	28.6	35.6	152
03490065	1 9/16	1/2	70.1	55.9	24	29.4	36.7	172
03490066	1 5/8	1/2	71.8	57.9	24.5	31	37.7	169
03490068	1 3/4	1/2	75.6	62	25.5	33.2	39.8	199
03490069	1 13/16	1/2	77.7	64.2	26	34.1	40.9	229
03490072	2	1/2	83.2	70.5	27.5	39.7	44.1	277
03490076	2 1/4	1/2	91.2	78.7	29.5	42.8	48.2	337
03490077	2 5/16	1/2	93.3	80.9	30	43.6	49.2	309
03490078	2 3/8	1/2	95.2	83	30.5	46	50.2	385

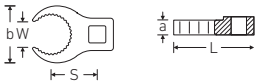
*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

440S MJ



Crowring spanners

— for pipe fittings, with straight cylindrical involute toothing
— EN 4108
— HPQ® high performance steel, chrome-plated



Product no.	Nut thread	mm	"	L mm	b mm	a mm	W	S mm	g
01211010	MJ10	DN04	1/4	31.9	22	8	6.5	17	54
01211014	MJ14	DN06	1/4	36.5	27	8	8.5	19.5	29
02211016	MJ16	DN08	3/8	43.8	31	8	10.5	24	46
02211018	MJ18	DN10	3/8	45.2	33	8	13	25	47
02211020	MJ20	DN12	3/8	46.2	35	8	15	26	49
02211022	MJ22	DN14	3/8	48.4	37	9	17.5	27	54
02211024	MJ24	DN16	3/8	49.5	39	9	19.7	28	56
02211027	MJ27	DN18	3/8	54.4	44	10	21.5	31	70
02211030	MJ30	DN20	3/8	60.8	50	10	23.7	36	93

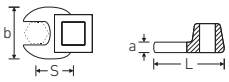
*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

540



Crowfoot spanners

— Chrome Alloy Steel, chrome-plated



Product no.	mm	"	L mm	b mm	a mm	S mm	g
01200008	8	1/4	25.5	19.8	6.3	14.6	19
01200009	9	1/4	25.5	19.8	6.3	14.6	21
01200010	10	1/4	25.5	19.8	6.3	14.6	20
02200011	11	3/8	32	22.2	6.3	17.4	36
02200012	12	3/8	34.3	25.4	6.3	18.2	37
02200013	13	3/8	34.3	25.4	6.3	17.8	36
02200014	14	3/8	37.7	30	6.3	20.8	46
02200015	15	3/8	37.7	30	6.3	20.4	45
02200016	16	3/8	37.7	30	6.3	19.9	45
02200017	17	3/8	42.5	38	6.3	23.8	62
02200018	18	3/8	42.5	38	6.3	22.9	61
02200019	19	3/8	42.5	38	6.3	22.4	64
02200020	20	3/8	42.4	38	6.3	25	55
02200021	21	3/8	44.5	41	6.3	23.6	59
02200022	22	3/8	44.5	41	6.3	24.2	64
02200023	23	3/8	44.5	41	6.3	25.8	64
02200024	24	3/8	44.4	41	6.3	26.3	60
02200025	25	3/8	47	45	8	26.4	75
02200026	26	3/8	47	45	8	27.6	80
02200027	27	3/8	47	45	8	27.6	76
02200028	28	3/8	50	50	8	29.2	78
02200030	30	3/8	50	50	8	29.3	84
02200032	32	3/8	53	57	8	30.5	95
02200034	34	3/8	54.5	60	8	31.6	107
02200036	36	3/8	56.5	62	8	32.8	100
02200040	40	3/8	63	70	8	37.6	130
02200041	41	3/8	63	70	8	37.2	130
02200042	42	3/8	63	70	8	37.7	125
02200046	46	3/8	72	82	8	43.1	191
02200050	50	3/8	75	88	8	45.4	217

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

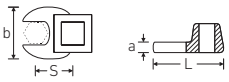
TOOLS THAT
... inspire

540a



Crowfoot spanners

— Chrome Alloy Steel, chrome-plated



Product no.	"	"	L mm	b mm	a mm	S mm	g
01500024	3/8	1/4	25.5	19.8	6.3	14.6	17
02500028	7/16	3/8	32	22.2	6.3	17.2	34
02500032	1/2	3/8	34.3	25.4	6.3	18.1	37
02500034	9/16	3/8	37.7	30	6.3	20.9	40
02500036	5/8	3/8	37.7	30	6.3	20.4	44
02500038	11/16	3/8	42.5	38	6.3	24.1	62
02500040	3/4	3/8	42.5	38	6.3	24	66
02500042	13/16	3/8	42.3	38	6.3	24	59
02500044	7/8	3/8	44.5	41	6.3	25.8	65
02500048	1	3/8	47	45	8	26.7	78
02500050	1 1/16	3/8	47	45	8	27.2	78
02500052	1 1/8	3/8	50	50	8	28.5	84
02500054	1 3/16	3/8	50	50	8	29.2	83
02500056	1 1/4	3/8	53	57	8	30.3	101
02500058	1 5/16	3/8	53	57	8	31.2	101
02500060	1 3/8	3/8	54.5	60	8	32.3	105
02500062	1 7/16	3/8	56.5	62	8	33.1	107
02500064	1 1/2	3/8	58	65	8	34.5	118
02500065	1 9/16	3/8	59.5	68	8	35.7	126
02500066	1 5/8	3/8	63	70	8	37.3	140
02500067	1 11/16	3/8	63	70	8	37.7	126
02500068	1 3/4	3/8	68	76	8	40.4	161
02500070	1 7/8	3/8	72	82	8	42	205
02500072	2	3/8	75	88	8	44.8	214
02500074	2 1/8	3/8	75.6	91	10	46	265
02500076	2 1/4	3/8	80.5	96	10	49.5	297
03500078	2 3/8	1/2	81.5	96	8	51.3	214

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

540a HD

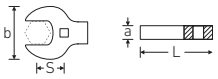


Crowfoot spanners heavy-duty

— for particularly high loads, e.g., stainless steel bolted joints

— full use of the open-ended spanner in combination with standard ratchets or torque wrenches with fixed square

— chrome-plated



Product no.	"	"	L mm	b mm	a mm	S mm	g
02501024	3/8	3/8	39	26	11	24	56
02501028	7/16	3/8	40	26	11	25	56
02501032	1/2	3/8	42	30	11	25.8	64
02501034	9/16	3/8	43.4	32	11	26.8	52
02501036	5/8	3/8	45	34.8	11	27.7	58
02501038	11/16	3/8	47.2	38	11	28.6	69
02501040	3/4	3/8	49	41	11	29.6	94
02501042	13/16	3/8	51	46.4	11	30.5	113
02501044	7/8	3/8	52	48	11	31.3	99
02501046	15/16	3/8	54	51.2	11	32.3	129
02501048	1	3/8	56	53.4	11	33.2	133
02501050	1 1/16	3/8	57	53.8	11	34.1	124
02501052	1 1/8	3/8	59	53.8	11	35	128
02501054	1 3/16	3/8	60	56	11	35.9	144
02501056	1 1/4	3/8	62	60	11	36.8	153
02501058	1 5/16	3/8	63	56	11	27.9	156
02501060	1 3/8	3/8	65	62	11	38.7	178
02501062	1 7/16	3/8	66.5	66	11	39.6	172
03501064	1 1/2	1/2	76	70	16	45	310
03501069	1 13/16	1/2	85	84	16	49.6	400
03501072	2	1/2	89	90	16	52.3	451
03501074	2 1/8	1/2	91.5	92.8	16	54.2	460
03501075	2 3/16	1/2	93	96	16	55.1	480
03501076	2 1/4	1/2	95	99	16	56	500

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

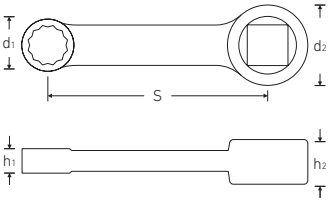
TOOLS THAT
... inspire

447



Adaptors

— bi-hex with AS-Drive profile
— HPQ® high-performance steel, gunmetal finish



Product no.	mm	"	d1 mm	d2 mm	h1 mm	h2 mm	S mm	g
02181007	7	3/8	11.5	19	6	11	50.8	30
02181008	8	3/8	12.4	19	6	11	50.8	30
02181009	9	3/8	14	19	8	11	50.8	40
02181010	10	3/8	15.6	19	8	11	50.8	40
02181013	13	3/8	19.3	19	9.2	11	50.8	55

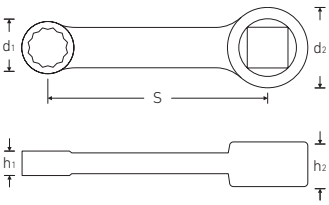
*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

447a



Adaptors

— bi-hex with AS-Drive profile
— SAE AS 954-E
— HPQ® high-performance steel, gunmetal finish



Product no.	"	"	d1 mm	d2 mm	h1 mm	h2 mm	S mm	g
02470016	1/4	3/8	10.4	19	6	11	50.8	27
02470020	5/16	3/8	12.4	19	6	11	50.8	29
02470024	3/8	3/8	14.9	19	8	11	50.8	41
02470028	7/16	3/8	17	19	8	11	50.8	40
02470032	1/2	3/8	19	19	9.2	11	50.8	56
02470034	9/16	3/8	21	19	9.2	11	50.8	61
02470036	5/8	3/8	23	19	12	11	50.8	73

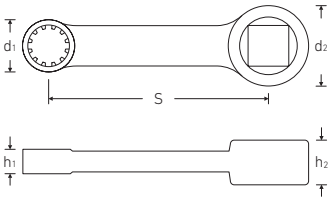
*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

447aSP



Adaptors

— for external Spline-Drive screws
— MS-33787, MIL-W-8982
— HPQ® high-performance steel, gunmetal finish



Product no.	"	"	d1 mm	d2 mm	h1 mm	h2 mm	S mm	g
02480014	7/32	3/8	9.4	19	6	11	50.8	28
02480016	1/4	3/8	10.4	19	6	11	50.8	27
02480018	9/32	3/8	11.5	19	6	11	50.8	29
02480020	5/16	3/8	12.4	19	6	11	50.8	29
02480024	3/8	3/8	14.9	19	8	11	50.8	38
02480028	7/16	3/8	17	19	9.2	11	50.8	39
02480032	1/2	3/8	19	19	9.2	11	50.8	59
02480034	9/16	3/8	21	19	9.2	11	50.8	55
02480036	5/8	3/8	23	19	12	11	50.8	74

*** Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

MADE IN CRONENBERG
MADE IN GERMANY

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TORQUE MULTIPLIERS.

MP100-1500





Torque multiplier MULTIPOWER

- particularly compact design, lightweight and handy
- with ratchet function
- working angle 8°
- with angle of rotation scale
- to be used with a fixed $^1/_2$" square torque wrench
- patented
- in carrying case
- **accuracy ± 5%**

Contains 5-pieces:
3 hex inserts: 30; 32; 36 mm
1 insert with 1" external square
1 reaction arm: L. 400 mm

Product no.	○ "	N·m$_1$	ft·lb$_1$	N·m$_2$	ft·lb$_2$	Gear ratio	Torque ratio	L mm	b mm	h mm	g	g with box
96531500	$^1/_2$	1500	1106	300	221	5.62 : 1	1 : 5	165	105	30	1890	3630

[1] output capacity max. [2] input capacity max.

MP300



MP300-800



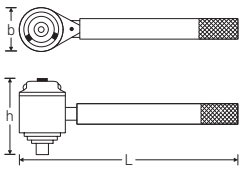
MP300-2000



MP300-5000

Torque multipliers MULTIPOWER

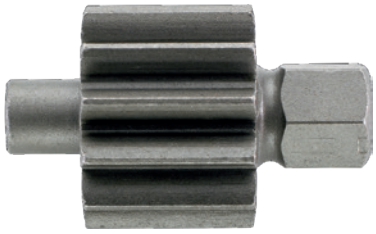
- easy transmission of the highest torques
- planetary gears with overload protection
- robust design for high torques up to 5,000 N·m/3,687 ft·lb
- up to 12,000 N·m/8,850 ft·lb available on request
- with anti-backlash protection (models 2,000 N·m onwards)
- with a spare sun wheel (overload protection)
- in carrying case
- **accuracy ± 5%**



Product no.	Size	■ "	○ "	N·m$_1$	ft·lb$_1$	N·m$_2$	ft·lb$_2$	Gear ratio	Torque ratio	L mm	b mm	h mm	g	g with box
53030800	800	$^3/_4$	$^1/_2$	800	590	229	169	4 : 1	1 : 3.5	215	66	85	2000	5838
53031350	1350	$^3/_4$	$^3/_4$	1350	996	375	277	4 : 1	1 : 3.6	265	90	106	3400	7500
53032000 *	2000	1	$^1/_2$	2000	1475	160	118	16 : 1	1 : 12.5	330	95	161	7000	11000
53033000 *	3000	1	$^3/_4$	3000	2212	240	177	16 : 1	1 : 12.5	330	95	161	7000	10805
53035000 *	5000	1 $^1/_2$	$^3/_4$	5000	3687	294	217	20 : 1	1 : 17.0	400	120	180	10400	14000

* with anti-backlash protection [1] output capacity max. [2] input capacity max.

SR290-393



Sun wheels with overload protection

Product no.	Model	for model	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



SPARE PART SETS FOR RATCHETS AND RATCHET INSERT TOOLS.

4150QR

Spare parts set for ratchet
Contains 11-pieces:
1 pinion; 1 locking disc; 2 lever with pin; 1 ball; 2 compression springs; 2 retaining screws M 1.7 x 8; 2 cover plates

Product no.	for model	■ "	Content pcs.	g
19011020	415QR, 725QR/4	1/4	11	24

4220

Spare parts set for ratchet
Contains 5-pieces:
1 pinion; 1 locking part; 1 switching disc; 1 spring; 1 screw

Product no.	for model	■ "	Content pcs.	g
19020003	735/5	3/8	5	88

7250/4

Spare parts set for ratchet
Contains 9-pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 retaining screws; 1 cover plate

Product no.	for model	■ "	Content pcs.	g
19012021	725/4	1/4	9	26

7250B/4

Spare parts set for bit-ratchet
Contains 9-pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 retaining screws; 1 cover plate

Product no.	for model	■ "	Content pcs.	g
19012022	725B/4	1/4	9	21

7250B/5

Spare parts set for bit-ratchet
Contains 9-pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 retaining screws; 1 cover plate

Product no.	for model	■ "	Content pcs.	g
19012023	725B/5	5/16	9	48

4350QR

Spare parts set for ratchet
Contains 8-pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 retaining screws

Product no.	for model	■ "	Content pcs.	g
19020020	435QR, 725QR/5	3/8	8	51

7210/5

Spare parts set for ratchet
Contains 7-pieces:
1 ball; 1 pinion; 2 compression springs; 1 switch button; 1 switch lever pin; 1 locking disc

Product no.	for model	■ "	Content pcs.	g
59191005	721/5, 721/5 Quick	3/8	7	53

7250L/5

Spare parts set for ratchet
Contains 9-pieces:
1 pinion; 1 pawl; 1 button with pin; 1 ball; 2 compression springs; 2 retaining screws; 1 cover plate

Product no.	for model	■ "	Content pcs.	g
19021000	725L/5	3/8	9	70

7350/5

Spare parts set for ratchet
Contains 7-pieces:
1 pinion; 1 locking part; 1 switching disc; 1 spring; 3 screws

Product no.	for model	■ "	Content pcs.	g
59251005	422, 735/5	3/8	7	85

5120QR

Spare parts set for ratchet
Contains 8-pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 pressure springs; 2 retaining screws

Product no.	for model	■ "	Content pcs.	g
19040020	512QR, 512SG-QR, 725QR/20	1/2	8	118

5150

Spare parts set for ratchet
Contains 5-pieces:
1 pinion, 1 locking piece, 1 countersunk screw, 1 switching disc, 1 switching spring

Product no.	for model	■ "	Content pcs.	g
19040002	735/20	1/2	5	130

5120

Spare parts set for ratchet
Contains 8-pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 pressure springs; 2 retaining screws

Product no.	for model	■ "	Content pcs.	g
19040000	721/15, 721/15 Quick, 721/20, 721/20 Quick	1/2	8	127

7210/30

Spare parts set for ratchet
Contains 8-pieces:
1 ball; 1 pan head screw; 1 switching lever; 2 compression springs; 1 switch lever pin; 1 pawl; 1 pinion

Product no.	for model	■ "	Content pcs.	g
59191030	721/30, 721/30 Quick	1/2	8	134

7250QR/10

Spare parts set for ratchet
Contains 8-pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 pressure springs; 2 retaining screws

Product no.	for model	■ "	Content pcs.	g
19041020	725QR/10	1/2	8	64

7350/10

Spare parts set for ratchet
Contains 7-pieces:
1 pinion; 1 locking part; 1 switching disc; 1 spring; 3 screws

Product no.	for model	■ "	Content pcs.	g
59251010	735/10	1/2	7	96

7350/20

Spare parts set for ratchet
Contains 7-pieces:
1 pinion; 1 locking part; 1 switching disc; 1 spring; 3 screws

Product no.	for model	■ "	Content pcs.	g
59251020	515, 735/20	1/2	7	140

7210/80

Spare parts set for ratchet
Contains 7-pieces:
1 pinion; 2 locking parts; 2 clamping pressure springs; 2 spring heads

Product no.	for model	■ "	Content pcs.	g
59191080	721Nf/80, 721Nf/100, 735/80, 735/100	3/4	7	443

7350/40

Spare parts set for ratchet
Contains 7-pieces:
1 pinion; 1 locking part; 1 switching disc; 1 spring; 3 screws

Product no.	for model	■ "	Content pcs.	g
59251040	735/40	3/4	7	219

7350/40HD-65

Spare parts set for ratchet
Contains 7-pieces:
1 pinion; 1 locking part; 1 switching disc; 1 spring; 3 screws

Product no.	for model	■ "	Content pcs.	g
59251065	735/40HD; 735/65	3/4	7	429

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SQUARE DRIVES.

70V



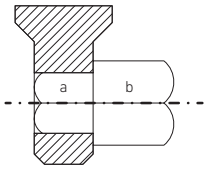
502 1/2



70V 16

Square drives

— for torque wrenches and insert tools



Product no.	Size	for model	a "	b "	L mm	g
59010001	1	71...V/1	1/4	1/4	17.5	5
59010014	11	734/4	3/8	1/4	22	12
59010003	3	734/5	3/8	3/8	25.8	17
59010005	5	734/10	3/8	1/2	30	28
59010011	502 1/2	720/30; 734/20	1/2	1/2	33.5	40
59010007	7	721/30, 721/30 Quick	1/2	1/2	44.3	52
59010008	8	734/40	3/4	3/4	52.2	138
59010015	12	720Nf/80; 721Nf/80+100; 734/80; 734/100; 735/80; 735/100	3/4	3/4	65	179
59010016 *	16	720Nf/80; 721Nf/80+100; 734/40; 734/80; 734/100; 735/80; 735/100	3/4	3/4	88	240

* extra-long, firmly locked and can be used on both sides



CALIBRATION CERTIFICATES.

WKS

Factory calibrations

— for torque wrenches

Product no.	N·m	Tightening direction
58950001	1-400	clockwise
58950016	1-400	clockwise/counter-clockwise
58950002	401-600	clockwise
58950017	401-600	clockwise/counter-clockwise
58950003	601-1000	clockwise
58950018	601-1000	clockwise/counter-clockwise
58950013	1001-3000	clockwise
58950019	1001-3000	clockwise/counter-clockwise

WKS

Factory calibrations

— for torque screwdrivers

Product no.	N·m	Tightening direction
58950009	0.02-10	clockwise
58950010	0.02-10	clockwise/counter-clockwise

WKS

Factory calibration

— for test equipment

Product no.	N·m
58950004	0.2-3000

WBS

Factory certificate

— for angle-controlled torque wrenches

Product no.	for model
58950025	713; 714

WBS 7395-1

Works certificate

— for angle of rotation module

Product no.	
58950026	per measurement unit

DAkkS

DAkkS calibrations

— for torque wrenches

Product no.	N·m	Tightening direction
58950005	1-400	clockwise
58950015	1-400	clockwise/counter-clockwise
58950006	401-600	clockwise
58950020	401-600	clockwise/counter-clockwise
58950007	601-1000	clockwise
58950021	601-1000	clockwise/counter-clockwise
58950014	1001-2000	clockwise
58950022	1001-2000	clockwise/counter-clockwise

DAkkS

DAkkS calibrations

— for torque screwdrivers

Product no.	N·m	Tightening direction
58950011	0.2-10	clockwise
58950012	0.2-10	clockwise/counter-clockwise

DAkkS

DAkkS calibration

— for test equipment

Product no.	
58950008	per measurement unit

TOOLS THAT
... inspire

STAHLWILLE TEST EQUIPMENT –
For added safety.

Test equipment from STAHLWILLE helps to ensure quality and minimise risks. They can be used to test torque and angle-controlled torque wrenches for compliance with tolerances between calibration intervals – daily if necessary, because the test is quick and easy.
A suitable, highly precise test device is available for every application and torque range – whether it's for use at base or in the field.

FLEXIBLE



Compact.

The SmartCheck test device can be positioned virtually anywhere. Sophisticated mounting points, a compact design and a rotatable display allow both vertical and horizontal mounting.

Rotatable.

Not only the display, but also the display holder and body can be rotated 180°. For optimal adjustment of the viewing angle of the display.

USB port.

The integrated USB interface allows the test values stored in the device to be read out. This means they can also be transferred to external systems.

Intuitive.

Easy to understand operation and user guidance. For faster work, reliable results and increased safety. CheckMaster, an application from STAHLWILLE, ensures a fast connection between PC and SmartCheck testing devices. The testing devices can then be configured and results analysed from the computer. Test certificates can also be created via CheckMaster.

MADE IN CRONENBERG
MADE IN GERMANY



Flexible.

The SENSOTORK® 7707 W testing device is not only compact, it is also extremely flexible thanks to its easily interchangeable transducers. The measured values are shown on a display that is connected with a cable.

Versatile.

Clockwise and counter-clockwise measurements with a particularly broad measuring range from 2 to 100 % of the nominal value, and interchangeable square drive adaptors integrated into the mounting block.

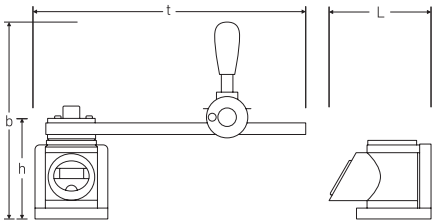
TEST EQUIPMENT AND CALIBRATION SYSTEMS.

SmartCheck Angle



Angle of rotation tester

- for checking the angle of rotation measurement of angle-controlled torque wrenches for compliance with the specified tolerances
- angle of rotation measurements up to 720° with setpoint specifications
- immediate evaluation of the measurement results directly on the device using the traffic light principle
- with interchangeable square drive adaptors ($^1/_4$"- $^3/_8$"-$^1/_2$")
- for angle-controlled torque wrenches with a measuring range of up to 400 Nm
- large LCD for optimum readability
- the display, the display holder, and the base can be rotated 180°
- the display and keypad are splash-proof, the case is made of impact-resistant plastic
- simple installation thanks to pre-drilled holes in the mounting bracket
- the rotating arm can be easily locked in the zero position for transport
- for controlled clockwise and counter-clockwise torque testing
- 2 operating modes: running display of the applied torque (Track), peak value display (Peak-Hold)
- customised input of target torques and tolerances for evaluating the measured value
- micro USB interface for data export and for power supply (if required)
- data storage for up to 2,500 data records, including date and time stamp
- CheckMaster documentation software for transferring values and creating test certificates is available free of charge at www.stahlwille.com
- operation via included power supply, batteries or rechargeable batteries (4 x AAA or 1 x 9 V block, adaptor included)
- with factory certificate
- in a sturdy plastic box
- delivered with USB power supply and square drive adaptors $^1/_4$" and $^3/_8$"



Product no.	N·m	L mm	t mm	b mm	h mm	kg
96521400	-400	263	171	452	326	11.5

SmartCheck USB



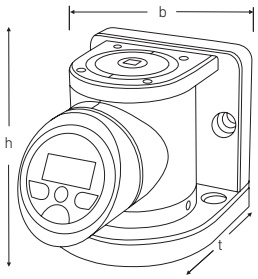




DESIGN AWARD 2017

Torque testers

- for testing indicating and clicking type torque wrenches
- with interchangeable square drive adaptors for square drives (from $^{3}/_{8}$" to $^{1}/_{4}$" with SmartCheck 100 USB; from $^{3}/_{4}$" to $^{1}/_{2}$" for SmartCheck 400 USB)
- large LCD for optimum readability
- the display, the display holder, and the base can be rotated 180°
- compact design
- display and keypad are splash-proof; the housing is made of impact-resistant plastic
- simple installation thanks to pre-drilled holes in the mounting bracket
- horizontal or vertical orientation
- for controlled clockwise and counter-clockwise torque testing
- 3 operating modes: running display of the applied torque (Track), display of the torque on click point detection (First-Peak), peak value display (Peak-Hold)
- customised input of target torques and tolerances for evaluating the measured value
- with integrated visual and acoustic overload protection
- 3 measuring units (N·m, ft·lb, in·lb)
- micro USB interface for data export and for power supply (if required)
- data storage for up to 200 data records, including date and time stamp
- CheckMaster documentation software for transferring values and creating test certificates is available free of charge at www.stahlwille.com
- operation via included power supply, batteries or rechargeable batteries (4 x AAA or 1 x 9 V block, adaptor included)
- with factory certificate
- delivered in a sturdy plastic box
- **accuracy ± 1%**





Product no.	Model	N·m	ft·lb	in·lb	"	t mm	b mm	h mm	g	g with box
96521206 *	SmartCheck 10S USB	1-10	0.74-7.4	8.9-88.5	$^{1}/_{4}$	167	120	124	5210	6556
96521207	SmartCheck 10 USB	1-10	0.74-7.4	8.9-88.5	$^{1}/_{4}$	167	120	124	5210	6556
96521208	SmartCheck 100 USB	10-100	7-74	89-885	$^{3}/_{8}$	167	120	124	5310	6656
96521209	SmartCheck 400 USB	40-400	30-295	354-3540	$^{3}/_{4}$	167	120	124	5690	7036
96521210	SmartCheck 800 USB	80-800	59-590	708-7081	$^{3}/_{4}$	167	120	124	5690	7036
96521211	SmartCheck 1500 USB	150-1500	111-1106	1328-13276	1	167	120	124	5912	7258

* for checking torque screwdrivers

WHICH TRANSDUCER IS FOR WHICH TORQUE TOOL?

For manually operated testing, calibration technology.

	7721	7721-0	7721-1	7722	7723-1	7723-2	7723-3	7724-1
760	○							
775	○							
TORSIOTRONIC®	○							
71/80							○	○
71aR/80							○	○
73Nm/15			○	○				
755R/1			○					
755/4				○	○			
755/10					○	○		
755/20					○	○	○	
755/30						○	○	
750NR				○	○	○		
730/5				○	○			
730/10					○	○		
730/12					○	○	○	
730/20					○	○	○	
730/40						○	○	
730/65							○	
730II/65							○	
730a/5				○	○			
730a/10					○	○		
730a/12					○	○	○	
730a/20					○	○	○	
730/2			○	○				
730/4				○	○	○		
730a/2-1		○	○					
730a/2			○	○				
730a/4				○	○			
730/80							○	○
721/5				○	○			
721/15					○	○	○	
721/20					○	○	○	
721/30						○	○	
721QR/15					○	○	○	
721QR/20					○	○	○	
720Nf/80							○	○
721Nf/80							○	○
721Nf/100							○	○

	7721	7721-0	7721-1	7722	7723-1	7723-2	7723-3	7724-1
730N/2			○	○				
730N/5				○	○	○		
730N/10					○	○		
730N/12					○	○	○	
730N/20					○	○		
730N/40						○	○	
730N/65							○	
730NII/65							○	
730N/80							○	○
730N/100							○	○
730Na/2			○	○				
730Na/5				○	○	○		
730Na/10					○	○		
730Na/20					○	○		
730Na/40						○	○	
701/2			○					
730D/10				○	○	○		
730D/20					○	○		
730D/40						○	○	
730D/65							○	
730DII/65							○	
730D/80							○	
730D/100							○	
714/1		○	○					
714/2			○	○				
714/4				○	○			
714/6				○	○			
714/10				○	○	○		
714/20					○	○		
714/40						○	○	
714/65							○	
714/80							○	
714/100							○	
713R/6				○				
713R/20					○	○		
713R/40						○		
712R/6				○				

Note

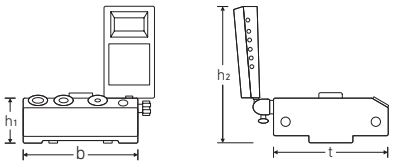
Torque testers are measurement devices! They have to be regularly calibrated and, where necessary, adjusted, using suitable calibration equipment. We recommend recalibrating every 12 months. DAkkS certificates must be ordered separately see p. 81.

7707 W



Electronic workshop testing devices SENSOTORK®

— for testing indicating and clicking type torque wrenches
— compact electronic testing device consisting of:
1 patented transducer
1 safety lock
1 display
1 stand with 1.5 metre cable for the display unit
1 spiral cable
1 power supply (110-230 V with interchangeable power outlet adaptors)
4 interchangeable square drive adaptors
— large LCD for optimum readability
— horizontal or vertical orientation
— for controlled clockwise and counter-clockwise measurements
— 3 operating modes: running display of the applied torque (Track), display of the torque on click point detection (First-Peak), peak value display (Peak-Hold)
— for clicking type torque wrenches, the actual final torque applied is also displayed, in addition to the first peak
— with QuickRelease safety lock
— not affected by transverse forces due to its particularly low-profile design
— automatic detection of transducers
— particularly broad measurement range from about 2-100 % of the nominal value
— 3 measuring units (N·m, ft·lb, in·lb)
— software no. 7759-4, including USB adaptor and jack-push/pull cable, allows the measured values to be transmitted to a PC (no additional external power source required, power from the PC), not included, order separately (see page 51)
— when recalibrating a transducer, the test equipment remains on site and available for use with another transducer
— complies with the specifications of guideline DKD-R 10-8
— with factory certificate
— delivered in a sturdy plastic box
— **accuracy ± 1%**



Product no.	Model	N·m	○ "	t mm	b mm	h_1 mm	h_2 mm	g	g with box
96521086 [1]	7707-1-3W	0.2-10	1/4	180	180	79	215	6255	9500
96521085	7707-1-2W	0.2-10	1/4	180	180	79	215	6255	9500
96521080	7707-1W	0.4-20	1/4	180	180	79	215	6255	9500
96521072 [2]	7707-2W	2-100	3/8	180	180	79	215	7025	10300
96521083 [3]	7707-2-1W	4-200	1/2	180	180	79	215	7511	10975
96521084 [4]	7707-2-2W	8-400	3/4	180	180	79	215	7654	11100
96521082	7707-3W	25-1100	3/4	180	180	79	215	7495	11000

[1] for checking torque screwdrivers
[2] with square drive adaptor No. 409M (1/4" ○ x 1/2" ■)
[3] with square drive adaptor No. 7798-4 (1/4" ○ x 1/2" ■), No. 7789-5 (3/8" ○ x 1/2" ■)
[4] with square drive adaptor No. 7787 (1/4" ○ x 3/4" ■), No. 7788 (3/8" ○ x 3/4" ■), No. 7789 (1/2" ○ x 3/4" ■)

STAHLWILLE CALIBRATION SYSTEMS – Calibration made easy.

Companies that use many torque and angle-controlled torque wrenches can reduce their tool costs and tool downtime by calibrating their measuring equipment in-house: With our mechanical and motorised/automated calibration systems, tools are calibrated quickly and efficiently to established industry standards.

PRECISE



Efficient.

The electronic perfectControl® calibration systems reduce the effort and time required for calibrations and adjustments and prevent inaccurate measurements. In combination with the TorkMaster software, calibration certificates are issued in no time.

Quick.

QuickRelease technology enables the transducers to be changed quickly. The handle support for torque wrenches can be adjusted with one hand using an eccentric tensioner.

Precise.

Take measurements without shifting the force application point. The transducer accurately detects, digitises the measured values and transmits them to the PC.



More features.

The perfectControl® 7794-3 also enables the calibration and adjustment of torque and angle-controlled torque wrenches. Thanks to an integrated motor, the working height can be adjusted and optimised quickly and easily by the user.

MADE IN CRONENBERG
MADE IN GERMANY

Comfortable.

Driven by an electric motor with automatic speed adjustment, the perfectControl® 7794-2 measures clockwise and counter-clockwise. Operation is via buttons.

Modular.

The base version calibrates torque wrenches up to 400 N·m. Calibrations up to 1,000 N·m are possible with the 7791-1 extension.

STAHLWILLE CALIBRATION SYSTEMS –
Coordinated – down to the last detail.



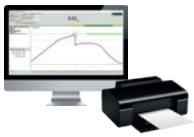
Mechanical loader



Laboratory transducers



USB adaptor 7757-1
+ Cable 7751-1



PC/printer not included

	No for full system	7706-8 PC	7706-9 PC	7706-10 PC	7706-11 PC
	Product no.	**96521068**	**96521069**	**96521070**	**96521074**
	Weight in kg	14.2	67.6	70.6	108.4
	Range N·m	1–10	2–100	2–1.000	20–3.000
	Mechanical loader	–	7791	7791	7792
	'Stand alone' mechanical loader for torque screwdrivers	7790	–	–	–
	Extension	–	–	7791-1	7792-1
	Laboratory transducers	7728-1S (1–10 N·m)	7728-2 (2–20 N·m) 7728-10 (10–100 N·m)	7728-2 (2–20 N·m) 7728-10 (10–100 N·m) 7728-40 (40–400 N·m) 7728-100 (100–1.000 N·m)	7728-20 (20–200 N·m) 7728-100 (100–1.000 N·m) 7728-300 (300–3.000 N·m)
	USB adaptor	7757-1	7757-1	7757-1	7757-1
	Jack cable	7751	7751	7751	7751
	Cable for 7728 (transducer to USB adaptor)	7751-1	7751-1	7751-1	7751-1
	Square drive adaptors	431 (3/8" O x 1/4" ■)	431 (3/8" O x 1/4" ■) 409M (1/4" O x 3/8" ■)	7787 (1/4" O x 3/4" ■) 7788 (3/8" O x 3/4" ■) 7789 (1/2" O x 3/4" ■) 409M (1/4" O x 3/8" ■)	7787 (1/4" O x 3/4" ■) 7788 (3/8" O x 3/4" ■) 7789 (1/2" O x 3/4" ■) 7789-2 (3/4" O x 1 1/2" ■) 7789-3 (1" O x 1 1/2" ■) 7789-4 (1/4" O x 1/2" ■) 7789-5 (3/8" O x 1/2" ■)
	Calibration square drive insert tools	–	734K/4 (1/4" ■) 734K/5 (3/8" ■)	734K/4 (1/4" ■) 734K/5 (3/8" ■) 734K/20 (1/2" ■) 734K/40 (3/4" ■)	734K/4 (1/4" ■) 734K/5 (3/8" ■) 734K/20 (1/2" ■) 734K/40 (3/4" ■)
	Bit connectors	3116 (1/4" ■ x 1/4" ⬣ E 6.3) 3116/1 (1/4" ■ x 1/4" ⬣ C 6.3)	– –	–	–
	Calibration software	TorkMaster	TorkMaster	TorkMaster	TorkMaster
	DAkkS calibration certificates	1	2	4	3

PERFECTCONTROL® CALIBRATION SYSTEMS –
Precisely matched products.

Motorised calibration system 7794-2



Manual calibration system 7794-1

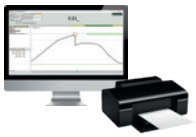
Laboratory transducers



USB adaptor 7757-1 + Cable 7751-1



PC/printer not included



	No for full system	7794-2/400	7794-2/1000	7794-1/400	7794-1/1000
	Product no.	**96521078**	**96521079**	**96521076**	**96521077**
	Weight in kg	62.1	69.8	53.2	60.9
	Range N·m	1–400	1–1.000	1–400	1–1.000
	Motorised calibration system	7794-2	7794-2	–	–
	Manual calibration system	–	–	7794-1	7794-1
	Extension	–	7791-1	–	7791-1
	Laboratory transducers	7728-1 (1–10 N·m) 7728-6 (6–60 N·m) 7728-40 (40–400 N·m)	7728-1 (1–10 N·m) 7728-6 (6–60 N·m) 7728-40 (40–400 N·m) 7728-100 (100–1.000 N·m)	7728-1 (1–10 N·m) 7728-6 (6–60 N·m) 7728-40 (40–400 N·m)	7728-1 (1–10 N·m) 7728-6 (6–60 N·m) 7728-40 (40–400 N·m) 7728-100 (100–1.000 N·m)
	USB adaptor	7757-1	7757-1	7757-1	7757-1
	Jack cable	7751	7751	7751	7751
	Jack-push/pull cable	7752	7752	7752	7752
	Square drive adaptors	409M (1/4" O x 3/8" ■) 7787 (1/4" O x 3/4" ■) 7788 (3/8" O x 3/4" ■) 7789 (1/2" O x 3/4" ■) 7789-4 (1/4" O x 1/2" ■) 7789-5 (3/8" O x 1/2" ■)	409M (1/4" O x 3/8" ■) 7787 (1/4" O x 3/4" ■) 7788 (3/8" O x 3/4" ■) 7789 (1/2" O x 3/4" ■) 7789-4 (1/4" O x 1/2" ■) 7789-5 (3/8" O x 1/2" ■)	409M (1/4" O x 3/8" ■) 7787 (1/4" O x 3/4" ■) 7788 (3/8" O x 3/4" ■) 7789 (1/2" O x 3/4" ■) 7789-4 (1/4" O x 1/2" ■) 7789-5 (3/8" O x 1/2" ■)	409M (1/4" O x 3/8" ■) 7787 (1/4" O x 3/4" ■) 7788 (3/8" O x 3/4" ■) 7789 (1/2" O x 3/4" ■) 7789-4 (1/4" O x 1/2" ■) 7789-5 (3/8" O x 1/2" ■)
	Calibration square drive insert tools	734K/4 (1/4" ■) 734K/5 (3/8" ■) 734K/12 (3/8" ■) 734K/20 (1/2" ■) 734K/40 (3/4" ■) 734K/100 (3/4" ■)	734K/4 (1/4" ■) 734K/5 (3/8" ■) 734K/12 (3/8" ■) 734K/20 (1/2" ■) 734K/40 (3/4" ■) 734K/100 (3/4" ■)	734K/4 (1/4" ■) 734K/5 (3/8" ■) 734K/12 (3/8" ■) 734K/20 (1/2" ■) 734K/40 (3/4" ■) 734K/100 (3/4" ■)	734K/4 (1/4" ■) 734K/5 (3/8" ■) 734K/12 (3/8" ■) 734K/20 (1/2" ■) 734K/40 (3/4" ■) 734K/100 (3/4" ■)
	Calibration software	TorkMaster	TorkMaster	TorkMaster	TorkMaster
	DAkkS calibration certificates	3	4	3	4

7794-1





perfectControl®

Manual calibration system

The perfectControl® calibration system with manual drive reduces the effort and time required for calibrations and adjustments of torque wrenches.

— measures without shifting the point of application of force
— avoid incorrect measurements with the precise bearing spindle and ergonomically shaped handwheel
— extremely precise calibration thanks to optimisation of the bearings and the square drives of the transducers
— clicking and indicating torque wrenches can be calibrated
— quick and easy switching of transducers with QuickRelease locking system
— bridge support with an eccentric clamp designed for single-handed operation reduces time and effort
— automatic transfer of measured values via USB interface to PC for further processing and archiving
— a calibration certificate can be printed and/or saved as a PDF file after calibration
— 'as found' and 'as left' calibrations can be documented
— DIN EN ISO 6789 calibration is supported in numerous languages. Additional standards and factory specifications available upon request
— calibrations up to 1,000 N·m with easy-to-assemble extension No. 7791-1.
— calibration of transducers using torque reference wrenches is possible on request
— the interface adaptor set 7761/3 is required for automated calibration of electromechanical torque wrenches and screwdrivers (730D eClick, 714, 766 DAPTIQ®, TORSIOTRONIC®, TORSIOTRONIC® DAPTIQ®)
— protected by national and international patents

Contains 19-pieces:

1 manual calibration system **No. 7794-1**
Calibration accessory set:
6 calibration square drive insert tools **No. 734K**: Size 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 TorkMaster software **No. 7731-1**
1 jack cable **No. 7751**
1 jack-push/pull cable **No. 7752**
1 jack-push/pull cable **No. 7751-3**
1 hex L-Key **No. 10760**: 2 mm
included USB adaptor with TorkMaster software **No. 7731-1**

Product no.	Range N·m	for transducers	for torque wrenches with functional length (L_F) max. mm	profile width mm	L mm	W mm	H mm	Content pcs.	kg
96521092	1-400	7728 (size 1-100)	815	180	1060	705	355	19	46.4

7794-1 Sets







perfectControl®

Manual calibration systems in a set

The perfectControl® calibration system with manual drive reduces the effort and time required for calibrations and adjustments of torque wrenches.

— measures without shifting the point of application of force
— avoid incorrect measurements with the precise bearing spindle and ergonomically shaped handwheel
— extremely precise calibration thanks to optimisation of the bearings and the square drives of the transducers
— clicking and indicating torque wrenches can be calibrated
— quick and easy switching of transducers with QuickRelease locking system
— bridge support with an eccentric clamp designed for single-handed operation reduces time and effort
— automatic transfer of measured values via USB interface to PC for further processing and archiving
— a calibration certificate can be printed and/or saved as a PDF file after calibration
— 'as found' and 'as left' calibrations can be documented
— DIN EN ISO 6789 calibration is supported in numerous languages. Additional standards and factory specifications available upon request
— calibrations up to 1,000 N·m with easy-to-assemble extension No. 7791-1.
— calibration of transducers using torque reference wrenches is possible on request
— the interface adaptor set 7761/3 is required for automated calibration of electromechanical torque wrenches and screwdrivers (730D eClick, 714, 766 DAPTIQ®, TORSIOTRONIC®, TORSIOTRONIC® DAPTIQ®)
— protected by national and international patents

Contents:

1 manual calibration system **No. 7794-1**
4 transducers (96521076: 3 transducers)
Calibration accessory set:
6 calibration square drive insert tools **No. 734K**: Size 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 jack cable **No. 7751**
1 jack-push/pull cable **No. 7752**
1 jack-push/pull cable **No. 7751-3**
1 hex L-Key **No. 10760**: 2 mm
included USB adaptor with TorkMaster software **No. 7731-1**

Product no.	Range N·m	L mm	W mm	H mm	Content pcs.	kg
96521076	1-400	1200	800	950	21	57.2
96521077 *	1-1000	1200	800	820	23	101.7

* includes extension **No. 7791-1**

TOOLS THAT ... inspire

7794-2





perfectControl®

Motorised calibration and adjustment system

The electronic perfectControl® calibration system with motorised drive significantly reduces the time and effort required for calibrations and adjustments of torque wrenches

- measures without shifting the point of application of force
- avoid inaccurate measurements with the precise bearing spindle and the fine-controlled motor
- extremely precise calibration thanks to optimisation of the bearings and the square drives of the transducers
- clicking and indicating torque wrenches can be calibrated
- quick and easy switching of transducers with QuickRelease locking system
- convenient button operation for clockwise and counter-clockwise measurements with motorised loading and automatic speed adjustment
- bridge support with an eccentric clamp designed for single-handed operation reduces time and effort
- automatic transfer of measured values via USB interface to PC for further processing and archiving
- a declaration of conformity or calibration certificate can be printed or saved as a PDF file after calibration
- 'as found' and 'as left' calibrations can be documented
- DIN EN ISO 6789 calibration is supported in numerous languages. Additional standards and factory specifications available upon request
- upgradeable to the perfectControl® calibration system No. 7794-3 for angle controlled torque wrenches
- calibrations up to 1,000 N·m with easy-to-assemble extension No. 7791-1.
- calibration of transducers with torque reference wrench is possible on request
- recommended transducer laboratory No. 7728
- the interface adaptor set 7761/3 is required for automated calibration of electromechanical torque wrenches and screwdrivers (730D eClick, 714, 766 DAPTIQ®, TORSIOTRONIC®, TORSIOTRONIC® DAPTIQ®)
- registered design
- protected by national and international patents

Contains 19-pieces:

1 motorised calibration and adjustment system **No. 7794-2**
Calibration accessory set:
6 calibration square drive insert tools **No. 734K**: Size 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 jack cable **No. 7751**
1 jack-push/pull cable **No. 7752**
1 jack-push/pull **No. 7751-3**
1 power adaptor set
1 hex L-Key **No. 10760**: 2 mm

Product no.	Range N·m	for transducers	for torque wrenches with functional length (LF) max. mm	profile width mm	L mm	W mm	H mm	Content pcs.	kg
96521093	1-400	7728 (size 1-100)	815	180	1060	640	328	19	51.5

7794-2 Sets



perfectControl®

Motorised calibration and adjustment systems in a set

The electronic perfectControl® calibration system No. 7794-2 with motorised drive significantly reduces the effort and time required for calibrations and adjustments of torque wrenches.

— measures without shifting the point of application of force
— avoid inaccurate measurements with the precise bearing spindle and the fine-controlled motor
— extremely precise calibration thanks to optimisation of the bearings and the square drives of the transducers
— clicking and indicating torque wrenches can be calibrated
— quick and easy switching of transducers with QuickRelease locking system
— bridge support with an eccentric clamp designed for single-handed operation reduces time and effort
— automatic transfer of measured values via USB interface to PC for further processing and archiving
— a calibration certificate can be printed and/or saved as a PDF file after calibration
— 'as found' and 'as left' calibrations can be documented
— DIN EN ISO 6789 calibration is supported in numerous languages. Additional standards and factory specifications available upon request
— calibrations up to 1,000 N·m with easy-to-assemble extension No. 7791-1.
— calibration of transducers with torque reference wrench is possible on request
— the interface adaptor set 7761/3 is required for automated calibration of electromechanical torque wrenches and screwdrivers (730D eClick, 714, 766 DAPTIQ®, TORSIOTRONIC®, TORSIOTRONIC® DAPTIQ®)
— registered design
— protected by national and international patents
— torque wrench and laptop not included

Contents:

1 motorised calibration and adjustment system **No. 7794-2**
4 transducers (96521078: 3 transducers)
Calibration accessory set:
6 calibration square drive insert tools **No. 734K**: Size 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 jack cable **No. 7751**
1 jack-push/pull cable **No. 7752**
1 jack-push/pull cable **No. 7751-3**
1 power adaptor set
1 hex L-Key **No. 10760**: 2 mm

Product no.	Range N·m	for transducers	for torque wrenches with functional length (L_F) max. mm	profile width mm	L mm	W mm	H mm	Content pcs.	kg
96521078	1-400	7728 (size 1-100)	815	180	1200	800	820	23	71.3
96521079 *	1-1000	7728 (size 1-100)	1390	180	1200	800	950	24	76.3

* includes extension **No. 7791-1**

7794-3





perfectControl®

Automatic calibration and adjustment system

The electronic perfectControl® calibration system No. 7794-3 with motorised drive for calibrations and adjustments of torque and angle-controlled torque wrenches.

— automatically calibrates electronic and electromechanical STAHLWILLE torque and angle-controlled torque wrenches
— design like perfectControl® No. 7794-2, but also suitable for calibrating angle-controlled torque wrenches
— optimum working height adjustment with motorised height adjustment
— calibrations up to 1,000 N·m with easy-to-assemble extension No. 7791-1 and mounting bracket set No. 7791-4
— the interface adaptor set 7761/3 is required for automated calibration of electromechanical torque wrenches and screwdrivers (730D eClick, 714, 766 DAPTIQ®, TORSIOTRONIC®, TORSIOTRONIC® DAPTIQ®).
— registered design
— protected by national and international patents

Contains 19-pieces:

1 motorised calibration and adjustment system **No. 7794-2**
Calibration accessory set:
6 calibration square drive insert tools **No. 734K** (size 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 jack cable **No. 7751**
1 jack-push/pull cable **No. 7752**
1 jack-push/pull cable **No. 7751-3**
1 power adaptor set
1 hex L-Key **No. 10760**: 2 mm

Product no.	Range N·m	for transducers	for torque wrenches with functional length (L_F) max. mm	profile width mm	L mm	W mm	variable height	Content pcs.	kg
96521094	1-400	7728 (size 1-100)	815	180	1060	640	884-1134 mm	19	230

7791-4

Mounting bracket set

— mounting bracket for attaching extension No. 7791-1 to the angle of rotation calibration system No. 7794-3
— the extension allows the measuring range to be extended from 400 N·m to 1,000 N·m

Contains:

1 mounting bracket, 4 screws: M8 x 30, 4 oval-head screws: M8 x 20, 8 x washers M8, 4 captive nuts: M8

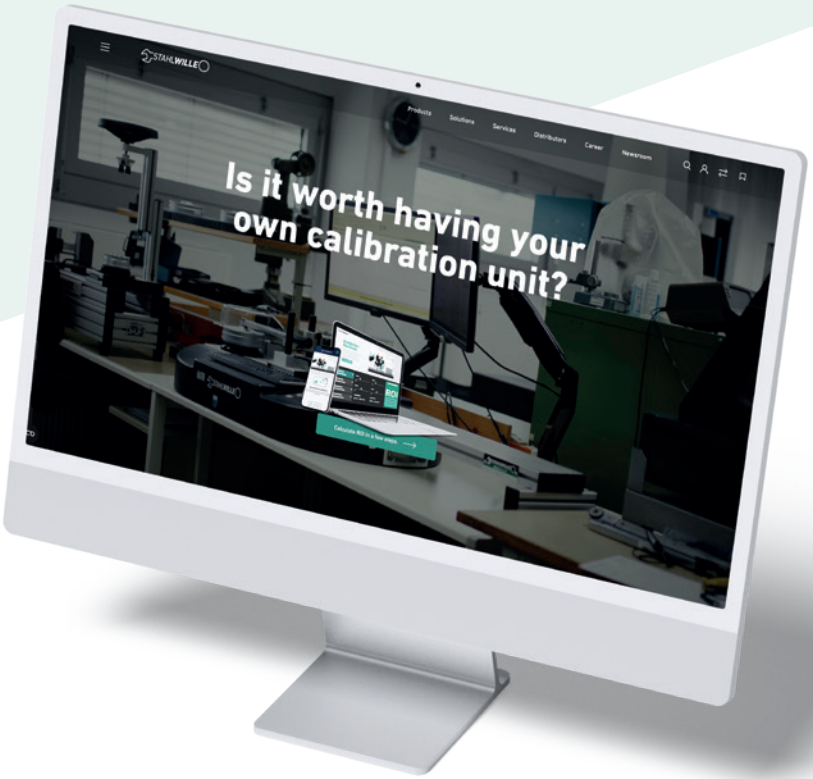
Product no.	for model	Content pcs.	kg
52110491	7794-3	21	1.5

IS IT WORTH HAVING YOUR OWN CALIBRATION UNIT?
Calculate the ROI easily online.

The topic of calibration of torque wrenches is becoming ever more relevant for manufacturing companies or those involved in maintenance. After all, DIN EN ISO 9001 requires regular testing and calibration of measuring equipment as proof of capability. Furthermore, DIN EN ISO 6789 explicitly recommends an interval of no more than twelve months or 5,000 loads.

In addition to commissioning external calibration service providers, there is also the option of investing in an in-house calibration system. This usually pays off faster than you would expect. In addition to the cost aspect, companies with sufficient calibration volume also gain time, increase tool availability and reduce their administrative effort.

ROI





Calibration in-house – the advantages.

Reliable.

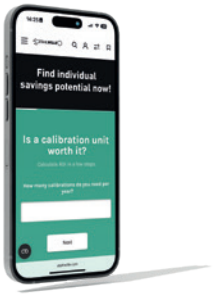
With a calibration system from STAHLWILLE, companies benefit from maximum process reliability, reliable quality control and maximum efficiency.

Efficient.

Your own calibration unit will unburden your team and reduce your tool downtime! The administrative effort for sending a tool to an external calibration laboratory is also removed – saving you valuable work time.

Flexible.

With an in-house calibration laboratory, more frequent and particularly strict calibrations are no problem – and incur no extra costs. Calibrations can be planned and performed when the tool is not in use.



Is it worth having your own calibration system? Determine your ROI now!
qr.stahlwille.com/calibration-technology

7728



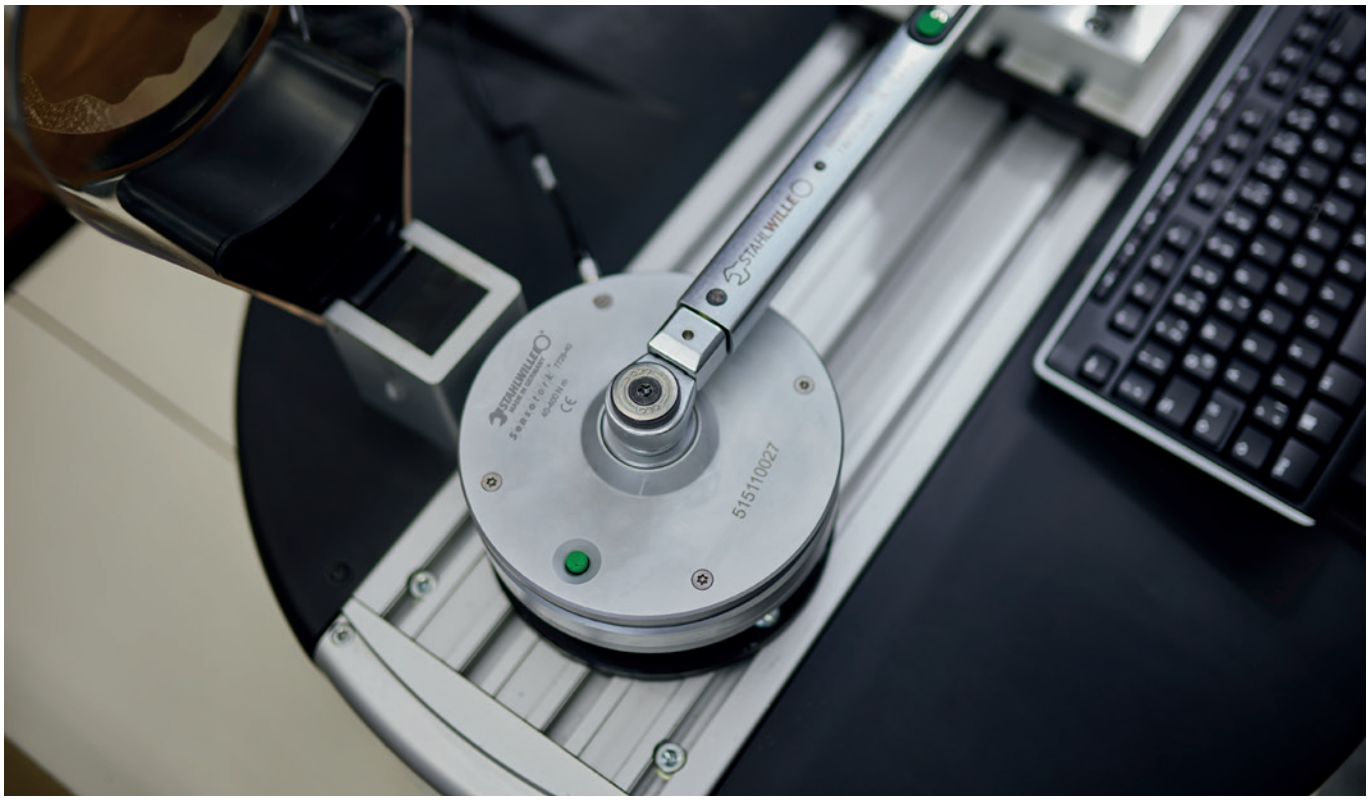
Laboratory transducers

- for laboratory use
- not affected by transverse forces due to its particularly low-profile design
- with optimised measurement ranges
- for calibration of torque wrenches and torque screwdrivers
- to be used with the perfectControl® calibration systems No. 7794 or the calibration systems No. 7706, No. 7791
- processing and digitisation occurs directly in the transducer, ensuring a high level of accuracy
- with a high-quality precision connection plug with locking function
- accredited calibration
- patented
- delivered in a sturdy plastic box
- **accuracy ± 0.5% of the measured value**

Product no.	Size	○ "	Accuracy ± 0.5% of the measured value N·m	Accuracy ± 0.5% of the measured value ft·lb	Accuracy ± 0.5% of the measured value in·lb	g	g with box
96524011 [1]	1S	1/4	1-10	0.74-7.4	8.9-88.5	1735	2415
96524001	1	1/4	1-10	0.74-7.4	8.9-88.5	1735	2415
96524002	2	1/4	2-20	1.5-15	18-177	1735	2415
96524004	4	3/8	4-40	3-30	35-354	2486	3136
96524006	6	3/8	6-60	4.5-45	53-531	2486	3136
96524010	10	3/8	10-100	7-74	89-885	2486	3136
96524020	20	1/2	20-200	15-148	177-1770	2983	3170
96524040	40	3/4	40-400	30-295	354-3540	4846	5507
96524065	65	3/4	65-650	48-479	575-5753	4846	5507
96524080	80	3/4	80-800	59-590	708-7081	4846	5507
96524100	100	3/4	100-1000	74-738	885-8851	4846	5507
96524300 [2]	300	1 1/2	300-3000	221-2214	2655-26553	10500	12000

[1] for calibrating torque screwdrivers

[2] for use with mechanical calibration systems No. 7792, 7792-1

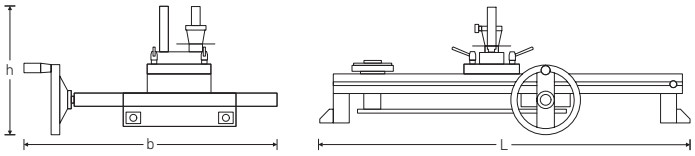


MANUTORK® 7791



Manual calibration system

— the special power transmission system prevents the force application point from shifting
— the handwheel drives a lever linearly via a spindle, whereby this movement is converted into a rotary movement of the transducer
— 2 ball-bearing bushings ensure a friction-free contact surface and enable the horizontal alignment of the wrench
— the torque wrench remains in position whilst the load is being applied
— minimal transverse forces and reduced friction minimise measurement errors
— protected by national and international patents



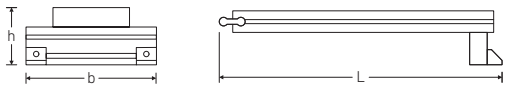
Product no.	Range N·m	for transducers	for torque wrenches with functional length (L_F) max. mm	profile width mm	L mm	W mm	H mm	kg
52110091	up to 400	size 1-100	815	180	1069	704	323	44.8

7791-1



Extension unit for No. 7791, 7794-1 and No. 7794-2 to 1.000 N·m

— with 1 pair of adaptor plates No. 7770-3 for height compensation between the extension No. 7791-1 and the perfectControl® calibration systems No. 7794-1, 7794-2



Product no.	for model	Range N·m	for torque wrenches with functional length (L_F) max. mm	profile width mm	L mm	W mm	H mm	kg
52110191	7791; 7794-1; 7794-2	up to 1000	1390	180	673	308	135	7.97

7706



Manual calibration systems

— the special power transmission system prevents the force application point from shifting
— the handwheel drives a lever linearly via a spindle, whereby this movement is converted into a rotary movement for the transducer
— 2 ball-bearing bushings ensure a friction-free contact surface and enable the horizontal alignment of the wrench
— the torque wrench remains in position whilst the load is being applied
— minimal transverse forces and reduced friction minimise measurement errors
— protected by national and international patents

Contains:

transducer, square adaptor, USB adaptor, cable, management software for calibration certificates

Product no.	Range N·m	L mm	W mm	H mm	kg
96521068	1-10	605	323	535	14.4
96521069	2-100	1200	800	520	67.6
96521070	2-1000	1200	800	520	75.6
96521074	20-3000	1780	690	600	110.5

MANUTORK® 7792



Mechanical calibration system

— the special power transmission system prevents the force application point from shifting
— the handwheel drives a lever linearly via a spindle, whereby this movement is converted into a rotary movement for the transducer
— 2 ball-bearing bushings ensure a friction-free contact surface and enable the horizontal alignment of the wrench
— the torque wrench remains in position whilst the load is being applied
— minimal transverse forces and reduced friction minimise measurement errors
— protected by national and international patents

Product no.	Range N·m	for transducers	for torque wrenches with functional length (L_F) max. mm	profile width mm	L mm	W mm	H mm	kg
52110092	up to 1000	size 20; 100; 300	1390	270	1668.5	722	323	55.7

7792-1



Extension unit for No. 7792 to 3,000 N·m

Product no.	for model	Range N·m	for torque wrenches with functional length (L_F) max. mm	profile width mm	L mm	W mm	H mm	kg
52110192	7792	20-3000	2390	270	1073	558	135	18.5

7721-7724



Transducers

- for testing of torque wrenches and torque screwdrivers
- processing and digitisation occurs directly in the transducer, ensuring a high level of accuracy
- not affected by transverse forces due to its particularly low-profile design
- for use with calibration systems or 7707 W workshop testing device
- with factory certificate
- patented
- delivered in a sturdy plastic box
- **accuracy ± 1% of the measured value**

Product no.	Model	"	Accuracy ± 1 % of the measured value N·m	Accuracy ± 1 % of the measured value ft·lb	Accuracy ± 1 % of the measured value in·lb	g	g with box
96521021 [1]	7721	1/4	0.2-10	0.15-7.4	1.8-88.5	1735	2411
96521000	7721-0	1/4	0.2-10	0.15-7.4	1.8-88.5	1735	2411
96521026	7721-1	1/4	0.4-20	0.3-15	3.5-177	1735	2411
96521022	7722	3/8	2-100	1.5-74	18-885	2486	3223
96521023	7723-1	1/2	4-200	3-148	35-1770	2983	3605
96522023	7723-2	3/4	8-400	6-295	71-3540	3134	3745
96521028	7723-3	3/4	25-1100	18-812	221-9736	2998	3761
96521029 [2]	7724-1	1 1/2	150-3000	111-2214	1328-26553	10500	12000

[1] for calibration of torque screwdrivers

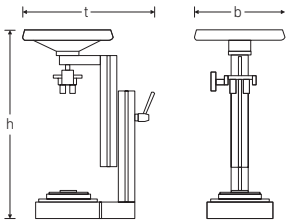
[2] for use with mechanical calibration systems No. 7792, 7792-1

7790



Stand alone mechanical loader for torque screwdrivers

— the torque screwdriver to be calibrated is inserted into the transducer and fixed in place using the universal centre clamps
— the force can be applied in a controlled manner using the handwheel
— transducer and torque screwdriver are not included
— can be attached to the mechanical calibration system No. 7792



Product no.	Range N·m	for transducers	t mm	b mm	h mm	kg
58521090	up to 10	7728-1S	351	250	442-593	8.95

7750-1



Bracket

— for display device No. 7750
— can be attached to the testing systems

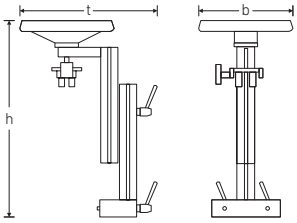
Product no.	for model	L mm	g
52101050	7750	110	165

7791-2



Hand wheel attachment for torque screwdrivers

— can be attached to the manual calibration system No. 7791
— the torque screwdriver to be calibrated is inserted into the transducer and fixed in place using the universal centre clamps
— the force can be applied in a controlled manner using the handwheel



Product no.	Range N·m	t mm	b mm	h mm	kg
52110291	up to 10	351	250	442-593	3.74

7789-734K



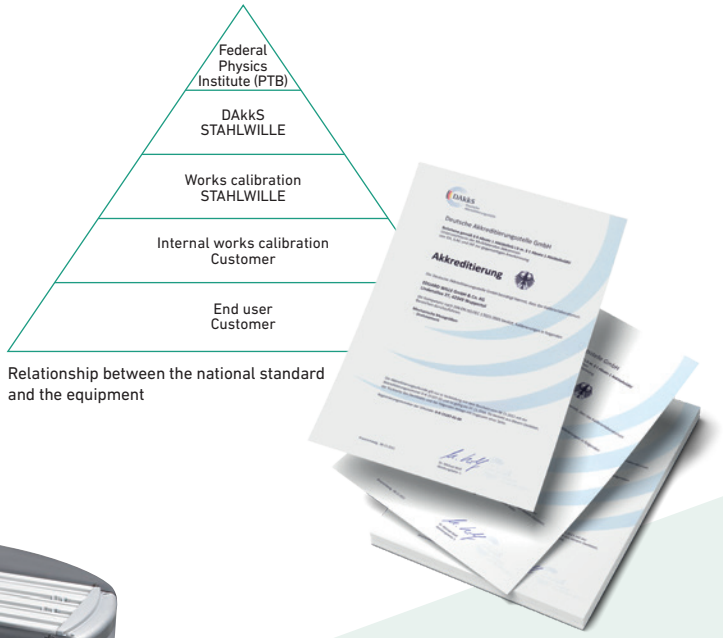
Calibration accessory set
Contains 17-pieces:
6 calibration square drive insert tools **No. 734K**: size 4; 5; 12; 20; 40; 100
6 square drive adaptors **No. 409M, No. 7787, No. 7788, No. 7789, No. 7789-4, No. 7789-5**
1 USB adaptor **No. 7757-1**
1 jack cable **No. 7751**: L. 1.5 m
1 jack-push/pull cable **No. 7752**: L. 1.5 m
1 jack-push/pull cable **No. 7751-3**: L. 0.25 m
1 hex L-Key **No. 10760**: 2 mm

Product no.	Content pcs.	g
96585224	17	1980

STAHLWILLE DAKKS CALIBRATION LABORATORY – Audited. Documented. Certified.

STAHLWILLE's DAkkS calibration laboratory for torque is accredited by the German Accreditation Service (DAkkS) in accordance with DIN EN ISO/IEC 17025:2005. 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. At ground level, the end-user checks the accuracy of the torque tools in-house using suitable calibrated testing equipment. At the next level, this test equipment is checked in STAHLWILLE's DAkkS accredited calibration laboratory. This accreditation by the German Calibration Service (DKD) in accordance with DIN EN ISO/IEC 17025:2005 guarantees the direct link between the measuring equipment and the national standard as laid down in DIN EN ISO 9001:2008.



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.

409M



Square drive adaptor

— 1/4 to 3/8"

— Chrome Alloy Steel, chrome-plated

Product no.	■ "	O "	L mm	g
11030010	3/8	1/4	13	14

7789-2



Square drive adaptor

— 3/4 to 1 1/2"

Product no.	■ "	O "	L mm	g
58523089	1 1/2	3/4	44	380

7787

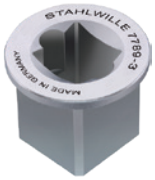


Square drive adaptor

— 1/4 to 3/4"

Product no.	■ "	O "	L mm	g
58521087	3/4	1/4	15.5	41

7789-3

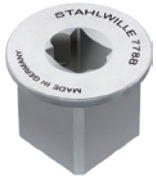


Square drive adaptor

— 1 to 1 1/2"

Product no.	■ "	O "	L mm	g
58524089	1 1/2	1	44	280

7788



Square drive adaptor

— 3/8 to 3/4"

Product no.	■ "	O "	L mm	g
58521088	3/4	3/8	23.5	50

7789-4

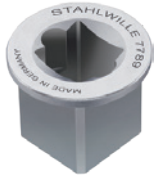


Square drive adaptor

— 1/4 to 1/2"

Product no.	■ "	O "	L mm	g
58524090	1/2	1/4	15.5	25

7789

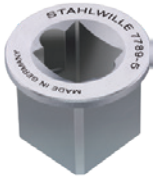


Square drive adaptor

— 1/2 to 3/4"

Product no.	■ "	O "	L mm	g
58521089	3/4	1/2	23.5	40

7789-5



Square drive adaptor

— 3/8 to 1/2"

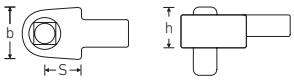
Product no.	■ "	O "	L mm	g
58524091	1/2	3/8	15.5	28

734K



Calibration square drive insert tools

— without ball or pin (only suitable for calibration)
— optimum measurement results during calibration by reduction of transverse forces



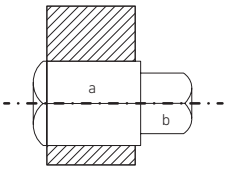
Product no.	Size	■ "	mm	b mm	h mm	S mm	g
58243004	4	1/4	9 x 12	20	16.7	17.5	76
58243005	5	3/8	9 x 12	20	16.7	17.5	76
58243012	12	3/8	14 x 18	27	21.5	25	199
58243020	20	1/2	14 x 18	27	21.5	25	218
58243040	40	3/4	14 x 18	40	29.3	25	410
58241100	100	3/4	22 x 28	43	29.3	55	907

70VK



Calibration square drives

— without ball or pin (only suitable for calibration)
— optimum measurement results during calibration by reduction of transverse forces



Product no.	Size	for model	■ "	■ "	L mm	g
59011014	11	734/4	3/8	1/4	24.7	12
59011003	3	735/5	3/8	3/8	27.6	17
59011012	12	734/10; 734/20	1/2	3/8	32.5	34
59011011	502 1/2	734/20	1/2	1/2	36.9	60
59011008	8	734/40; 734/80; 734/100	3/4	3/4	52.2	138




STAHLWIL

2 Spanners

110 **Double open-ended spanners and sets**

114 **Combination spanners and sets**

120 **Mixed spanner sets**

121 **Double-ended ring spanners and sets**

127 **Combination ratchet spanners and sets**

130 **Double-ended ratchet ring spanners and sets**

132 **FastRatch spanners and sets**

134 **Open-ended striking spanners and open-ended spanners**

135 **Heavy-duty and striking ring spanners**

137 **Double-ended flexi-joint spanners and sets**

138 **Box spanners and sets**

139 **Hook spanners**

139 **Spanner accessories**

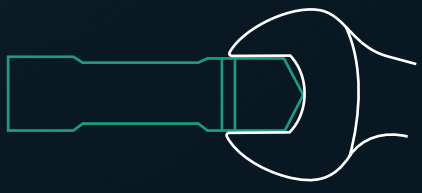
STAHLWILLE SPANNERS –
Extremely durable.

Thanks to the use of high-quality special steels and a sofisticated forging process, STAHLWILLE spanners are particularly durable and robust. The non-slip finish means that all wrenches sit comfortably in the hand, even after prolonged use and the exertion of greater forces.

STRONG







Thinner.

The thin-walled diameter of our rings makes it easier to work in confined spaces. The ring wall is deeper than standard nuts, which prevents jamming.

More varied.

STAHLWILLE offers a particularly large variety of metric, imperial, Spline-Drive and TORX® wrenches.

More precise.

Extremely tight manufacturing tolerances with reproducible measurement accuracy make it possible for each wrench to be identical to the next. This ensures that both the jaw and the ring are always securely seated on the screw and that the best possible connection is achieved.



More stable.

Our spanners are specially designed with additional reinforcement in the load zones where the greatest amount of force is transmitted – namely where the jaw meets the shank – in order to prevent deformation.

MADE IN CRONENBERG
MADE IN GERMANY

Lighter.

Our open-ended, combination and ring spanners have an additional recess in the middle of the tool. Similar to the principle of a double T-beam, this provides a tremendous load capacity and maximum strength whilst reducing weight.

Stronger.

The special AS-Drive profile makes high force transmission to the flats of nuts and bolts possible without damaging them. This also prevents stripping of the screw head.

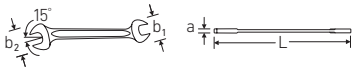
DOUBLE OPEN-ENDED SPANNERS AND SETS.

MOTOR 10



Double open-ended spanners

— **metric, differing** end sizes
— straight design, jaws angled 15°
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated
— DIN 3110 / ISO 10102



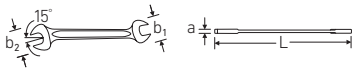
Product no.	mm	L mm	a mm	b_1 mm	b_2 mm	g
40030405	4 x 5	100	3.4	12.5	14	11
40035507	5.5 x 7	120	3.7	14.8	17	17
40030607	6 x 7	120	3.7	15.5	17	17
40030708	7 x 8	140	4.0	17	18	25
40030809	8 x 9	140	4.0	18	21	27
40030810	8 x 10	140	4.5	18	23	33
40031011	10 x 11	155	4.8	23	26	47
40031012	10 x 12	170	5.3	23	28	51
40031013	10 x 13	170	5.3	23	30	57
40031113	11 x 13	170	5.3	26	30	55
40031213	12 x 13	170	5.3	28	30	75
40031214	12 x 14	170	5.3	28	32	63
40031314	13 x 14	190	5.3	30	32	70
40031315	13 x 15	190	5.3	30	35	73
40031317	13 x 17	205	5.8	30	38	92
40031415	14 x 15	190	5.3	32	35	81
40031417	14 x 17	205	5.8	32	38	99
40031617	16 x 17	205	5.8	36	38	100
40031618	16 x 18	220	6.7	36	40	125
40031719	17 x 19	220	6.7	38	42	131
40031819	18 x 19	220	6.7	40	42.5	147
40031821	18 x 21	235	7.3	40	47	170
40031922	19 x 22	235	7.3	42	49	179
40032022	20 x 22	235	7.3	45	49	185
40032123	21 x 23	250	7.8	47	51	225
40032124	21 x 24	250	7.8	47	53	215
40032224	22 x 24	250	7.8	49	53	225
40032426	24 x 26	270	8.3	53	57.5	293
40032427	24 x 27	280	8.3	53	60	299
40032528	25 x 28	285	8.3	55	62	309
40032730	27 x 30	300	9.4	60	66	412
40032732	27 x 32	300	9.4	60	70	418
40033032	30 x 32	300	9.4	66	70	450
40033034	30 x 34	300	9.4	66	75	480
40033236	32 x 36	325	10	70	80	546
40033436	34 x 36	325	10	75	80	619
40033641	36 x 41	375	11	80	88	800
40034146	41 x 46	425	12	88	94.5	980

MOTOR 10a



Double open-ended spanners

— **imperial, differing** end sizes
— straight design, jaws angled 15°
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated



Product no.	"	L mm	a mm	b_1 mm	b_2 mm	g
40431620	1/4 x 5/16	140	4	16	18	21
40432024	5/16 x 3/8	140	4.5	18	23	34
40432428	3/8 x 7/16	155	4.8	23	26	48
40432832	7/16 x 1/2	170	5.3	26	30	58
40433234	1/2 x 9/16	190	5.3	30	32	73
40433436	9/16 x 5/8	205	5.8	32	36	96
40433538	19/32 x 11/16	205	5.8	35	40	105
40433638	5/8 x 11/16	205	5.8	36	40	101
40433640	5/8 x 3/4	220	6.7	36	42	135
40433840	11/16 x 3/4	220	6.7	40	42	135
40433842	11/16 x 13/16	235	7.3	40	47	167
40434044	3/4 x 7/8	235	7.3	42	49	177
40434142	25/32 x 13/16	235	7.3	45	47	190
40434446	7/8 x 15/16	250	7.8	49	53	235
40434648	15/16 x 1	270	8.3	53	55	270
40435258	1 1/8 x 15/16	300	9.4	64	75	502



Offset Shaft Design

Our spanners are specially designed with additional reinforcement in the load zones where the greatest amount of force is transmitted - namely where the jaw meets the shank - in order to prevent deformation.

MOTOR 10



Double open-ended spanner sets
- — **metric, differing** end sizes
- — in robust polyester roll-up tool pouch with hook-and-loop fastener
- — mesh inserts allow visibility of the tools
- — a compact storage solution to keep your tools safe
- — embroidered STAHLWILLE logo

Product no.	Model	Contents	Content pcs.	g
96400304	10/5	8 x 9; 10 x 11; 12 x 13; 14 x 15; 17 x 19 mm	5	490
96400305	10/8	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22 mm	8	745
96400307	10/10	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32 mm	10	1540
96400306	10/12	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 25 x 28; 30 x 32 mm	12	2125

MOTOR 10



Double open-ended spanner set
- — **metric, differing** end sizes in cardboard packaging

Product no.	Model	Contents	Content pcs.	g
96400314	10/9N	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24 mm	9	918

MOTOR 10a



Double open-ended spanner sets
- — **imperial, differing** end sizes
- — in robust polyester roll-up tool pouch with hook-and-loop fastener
- — mesh inserts allow visibility of the tools
- — a compact storage solution to keep your tools safe
- — embroidered STAHLWILLE logo

Product no.	Model	Contents	Content pcs.	g
96404306	10a/7	$^{1}/_{4}$ x $^{5}/_{16}$; $^{3}/_{8}$ x $^{7}/_{16}$; $^{1}/_{2}$ x $^{9}/_{16}$; $^{5}/_{8}$ x $^{3}/_{4}$; $^{11}/_{16}$ x $^{13}/_{16}$; $^{7}/_{8}$ x $^{15}/_{16}$; 1 $^{1}/_{8}$ x 1 $^{5}/_{16}$ "	7	1242
96404307	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 $^{5}/_{16}$ "	11	2100

TCS MOTOR 10/10 6x7-24x27





Double open-ended spanner set
- — **metric, differing** end sizes
- — safely integrated in the modular Tool Control System (TCS)

Contains 10-pieces:

10 double open-ended spanners **No. 10**: 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24; 24 x 27 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96838187	350	175	66	1/3	10	1287

TOOLS THAT
... inspire

TCS MOTOR 10/10 6x7-30x32



Double open-ended spanner set
— **metric, differing** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 10-pieces:
10 double open-ended spanners **No. 10**: 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96838182	350	350	30	2/3	10	1550

TCS MOTOR 10/11 6x7-34x36



Double open-ended spanner set
— **metric, differing** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 11-pieces:
11 double open-ended spanners **No. 10**: 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22; 24 x 27; 30 x 32; 34 x 36 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830167	350	175	80	1/3	11	2056

TCS MOTOR 10/10 6x7-30x32MF



Double open-ended spanner set
— **metric, differing** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 10-pieces:
10 double open-ended spanners **No. 10**: 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22; 24 x 27; 30 x 32 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830353	350	175	75	1/3	10	1437

TCS MOTOR 10a/9



Double open-ended spanner set
— **imperial, differing** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 9-pieces:
9 double open-ended spanners **No. 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 $^{5}/_{16}$"

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96838779	350	175	70	1/3	9	1555

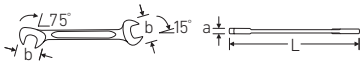


ELECTRIC 12



Small double open-ended spanners

— **metric, identical** end sizes
— straight design, jaws angled 15° and 75°
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— Chrome Alloy Steel, chrome-plated



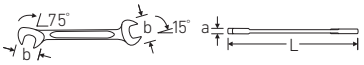
Product no.	mm	L mm	a mm	b mm	g
40063232	3.2	70	2	10.5	5
40063535	3.5	70	2	10.5	5
40060404	4	70	2	10.5	5
40064545	4.5	70	2	10.5	5
40060505	5	78	2	12.6	7
40065555	5.5	78	2	12.6	7
40060606	6	78	2	12.6	6
40060707	7	91	2	14.7	9
40060808	8	96	3	16.8	16
40060909	9	103	3	18.9	19
40061010	10	105	3	21	22
40061111	11	116	3	24.2	27
40061212	12	116	3	24.2	27
40061313	13	131	3	28.3	37
40061414	14	131	3	28.3	36

ELECTRIC 12a



Small double open-ended spanners

— **imperial, identical** end sizes
— straight design, jaws angled 15° and 75°
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— Chrome Alloy Steel, chrome-plated



Product no.	"	L mm	a mm	b mm	g
40461010	5/32	70	2	10,5	5
40461212	3/16	70	2	10,5	5
40461313	13/64	78	2	12,6	7
40461414	7/32	78	2	12,6	6
40461515	15/64	78	2	12,6	6
40461616	1/4	91	2	14,7	9
40461818	9/32	91	2	14,7	9
40462020	5/16	96	3	16,8	16
40462222	11/32	103	3	18,9	19
40462424	3/8	105	3	21	22
40462828	7/16	116	3	24,2	28
40463232	1/2	131	3	28,3	37
40463434	9/16	131	3	28,3	36

ELECTRIC 12



Double open-ended spanner sets

— **metric, identical** end sizes
— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo

Product no.	Model	Contents	Content pcs.	g
96400653	12/10	4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11 mm	10	161
96400651	12/15	3.2; 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm	15	296

ELECTRIC 12a



Double open-ended spanner set

— **imperial, identical** end sizes
— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo

Contains 13-pieces:

13 double open-ended spanners **No. 12a**: 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"

Product no.	Model	Content pcs.	g
96404654	12a/13	13	320

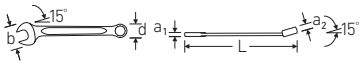
COMBINATION SPANNERS AND SETS.

OPEN BOX 13



Combination spanners

— **metric, identical** end sizes
— jaw angled 15°
— ring with bi-hex and AS-Drive profile
— ring-end cranked 15°
— reinforced connection between jaw and shaft
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated
— DIN 3113 Form A / ISO 7738 Form A



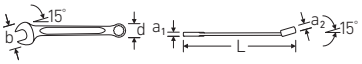
Product no.	mm	L mm	b mm	d mm	a1 mm	a2 mm	t mm	g
40085500	5.5	100	14.8	9.2	3.5	5.8	13	15
40080606	6	105	15.5	9.9	3.6	6	15	15
40080707	7	110	15.5	9.9	3.9	6	20	10
40080808	8	115	18	12.4	4.2	7	21	21
40080909	9	120	21	13.4	4.5	7	10	27
40081010	10	125	23	14.8	4.8	7	10	35
40081111	11	135	26	16.4	4.8	8	10	43
40081212	12	140	28	17.8	5.3	8.5	10	46
40081313	13	160	30	19.1	5.3	8.5	10	57
40081414	14	165	32	20.6	5.3	8.5	10	68
40081515	15	170	35	21.9	5.3	8.5	10	80
40081616	16	180	37	23.2	5.8	10	10	89
40081717	17	190	38	24.6	5.8	10	10	100
40081818	18	200	40	26	6.7	11.5	10	126
40081919	19	230	42	27.5	6.7	11.5	10	140
40082020	20	230	45	29	7	13	10	176
40082121	21	260	47	30.3	7.3	13	10	216
40082222	22	260	49	31.8	7.3	13	10	220
40082323	23	280	53	33.5	7.8	14	5	251
40082424	24	280	53	34.9	7.8	14	5	254
40082525	25	300	55	36.3	8.4	14.5	5	281
40082626	26	300	57.5	37.8	8.4	14.5	5	325
40082727	27	300	60	39.2	8.4	14.5	5	335
40082828	28	320	62	40.6	8.4	14.5	5	368
40082929	29	330	64	41.9	8.9	16	5	385
40083030	30	330	66	43.2	8.9	16	5	404
40083232	32	360	70	45.8	9.4	16.5	5	484
40083434	34	450	75	48	9.4	17	1	683
40083636	36	460	80	50.8	10	18	1	780
40083838	38	480	87	53.6	11	19	1	915
40084141	41	480	88	57.8	11	19	1	1020
40084646	46	500	94.5	65.2	13	20	1	1330
40085050	50	530	103	73	14	21	1	1600
40085555	55	560	114	81	15	22	1	2065
40086060	60	590	125	89.8	16	24	1	2725

OPEN BOX 13a



Combination spanners

— **imperial, identical** end sizes
— jaw angled 15°
— ring with bi-hex and AS-Drive profile
— ring-end cranked 15°
— reinforced connection between jaw and shaft
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated



Product no.	"	L mm	b mm	d mm	a1 mm	a2 mm	g
40481212	3/16	95	14	9.8	3	3.2	10
40481313	13/64	95	14	9.8	3	3.2	10
40481414	7/32	95	14	9.8	3	3.2	10
40481515	15/64	95	14	9.8	3	3.2	10
40481616	1/4	105	15.5	10.2	3.6	6	14
40481818	9/32	110	17	11.3	3.9	6	15
40482020	5/16	115	18	12.4	4.2	7	20
40482222	11/32	120	21	13.4	4.5	7	26
40482424	3/8	125	23	14.3	4.8	7	32
40482828	7/16	135	26	16.4	4.8	8	41
40483232	1/2	160	30	18.8	5.3	8.5	57
40483434	9/16	165	32	20.6	5.3	8.5	70
40483535	19/32	170	35	21.9	5.3	8.5	74
40483636	5/8	180	37	23.2	5.8	10	88
40483838	11/16	200	40	25.3	6.7	11.5	116
40484040	3/4	230	42	27.5	6.7	11.5	144
40484141	25/32	235	45	29	7	13	175
40484242	13/16	260	47	30	7.3	13	204
40484444	7/8	260	49	31.8	7.3	13	217
40484646	15/16	280	53	34.9	7.8	14	255
40484848	1	300	55	37.2	8.4	14.5	286
40485050	1 1/16	300	60	39.2	8.4	14.5	327
40485252	1 1/8	330	64	41.4	8.9	16	380
40485454	1 3/16	332	66	43.2	8.9	16.5	398
40485656	1 1/4	360	70	45.8	9.4	16.5	504
40485858	1 5/16	450	74	47	9.6	17	617
40486060	1 3/8	460	80	49.3	10	18	796
40486262	1 7/16	461	80	51.4	10	18	760
40486464	1 1/2	480	87	53.6	11	19	950
40486666	1 5/8	480	88	58	11	19	1021
40486969	1 13/16	500	94.5	65.3	13	20	1343
40487070	1 7/8	530	103	68.4	14	21	1640
40487272	2	530	103	74	14	21	1700

OPEN BOX 13



Combination spanner sets

— **metric, identical** end sizes
— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo

Product no.	Model	Contents	Content pcs.	g
96400813	13/6	7; 8; 10; 13; 17; 19 mm	6	650
96400801	13/9	9; 10; 11; 12; 13; 14; 17; 19; 22 mm	9	758
96400802	13/11	8; 9; 10; 11; 12; 13; 14; 15; 17; 19; 22 mm	11	915
96400803	13/15	6; 7; 8; 9; 10; 11; 12; 13; 17; 19; 22; 24; 27; 30; 32 mm	15	2236
96400804	13/17	6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm	17	1480

OPEN BOX 13



Combination spanner sets

— **metric, identical** end sizes
— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo

Product no.	Model	Contents	Content pcs.	g
96400808	13/10	8; 9; 10; 11; 12; 13; 14; 15; 17; 19 mm	10	746
96400816 [1]	13/16	7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24 mm	16	1620
96400805 [1]	13/26	6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 29; 30; 32 mm	26	4705

[1] loosely packed



OPEN BOX 13a



Combination spanner sets
— **imperial, identical** end sizes in cardboard packaging
— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo

Product no.	Model	Contents	Content pcs.	g
96404803 [1]	13a/8	7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8 "	8	900
96404812	13a/10	1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4 "	10	750
96404804 [1]	13a/20	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 "	20	3180

[1] loosely packed

TCS OPEN BOX 13/17 6-24



Combination spanner set
— **metric, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 17-pieces:
17 combination spanners **No. 13**: 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830164	350	350	60	2/3	17	1615

TCS OPEN BOX 13/17 6-24MF



Combination spanner set
— **metric, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 17-pieces:
17 combination spanners **No. 13**: 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830351	350	350	60	2/3	17	1700

TCS OPEN BOX 13/18 6-24



Combination spanner set
— **metric, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 18-pieces:
18 combination spanners **No. 13**: 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96838183	350	530	35	3/3	18	2040



TCS OPEN BOX 13/21 6-34



Combination spanner set
— **metric, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 21-pieces:
21 combination spanners **No. 13**: 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32; 34 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830174	350	530	75	3/3	21	3710

TCS OPEN BOX 13a/19



Combination spanner set
— **imperial, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 19-pieces:
19 combination spanners **No. 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"

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96838778	350	350	55	2/3	19	2000

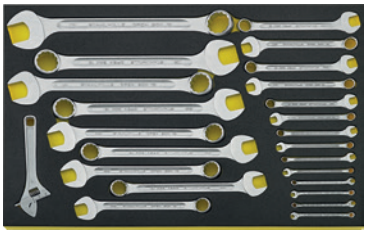
TCS OPEN BOX 13/25 5.5-34



Combination spanner set
— **metric, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 25-pieces:
25 combination spanners **No. 13**: 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 27; 29; 30; 32; 34 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96832096	350	530	80	3/3	25	4500

TCS OPEN BOX 13a/23 3/16-1 1/8



Combination spanner set
— **imperial, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 24-pieces:
23 combination spanners **No. 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 $^{1}/_{8}$"
1 adjustable spanner **No. 4025**: max. 34 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830885	350	530	35	3/3	24	2800

MADE IN CRONENBERG
MADE IN GERMANY

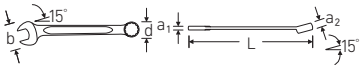
For more than 160 years, the STAHLWILLE brand has been synonymous with premium tools. From its foundation by Eduard Wille to the present day, our goal has always been the same: to manufacture tools that set the standard and that are 'Made in Germany'.

130a



Combination spanners

— **imperial, identical** end sizes
— jaw angled 15°
— ring with bi-hex and AS-Drive profile
— ring-end cranked 15°
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— HPQ® high performance steel, chrome-plated
— Fed. Spec. GGG-W-636 E



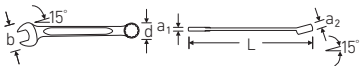
Product no.	"	L mm	b mm	d mm	a_1 mm	a_2 mm	g
40571616	1/4	105	14.2	9.8	3.6	6	15
40571818	9/32	110	15.5	10.9	4.1	6	16
40572020	5/16	115	17	12	4.5	7	20
40572222	11/32	120	19	13.1	4.9	7	25
40572424	3/8	125	20.5	14.1	5.2	7	32
40572828	7/16	135	23	16.2	6	8	42
40573232	1/2	150	27	18.2	6.5	8.5	61
40573434	9/16	165	30.5	20.6	7	8.5	78

130aSP



Combination spanners

— **imperial, identical** end sizes
— jaw angled 15°
— with Spline-Drive profile
— ring-end cranked 15°
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— HPQ® high performance steel, chrome-plated
— Fed. Spec. GGG-W-636 E / MS-33787 / MIL-W-8982



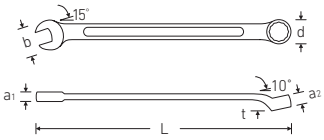
Product no.	Size	"	L mm	b mm	d mm	a_1 mm	a_2 mm	g
40581616	8	1/4	105	14.2	10	3.6	5.6	13
40582020	10	5/16	115	17	12.2	4.5	6.4	21
40582424	12	3/8	125	20.5	14.8	5.2	7	31
40582828	14	7/16	135	23	16.5	6	8	43
40583232	16	1/2	150	27	18.7	6.5	8.5	59
40583434	18	9/16	165	30.5	20.8	7	8.5	84

OPEN BOX 14



Combination spanners

— **metric, identical** end sizes
— extra-long version for hard-to-reach bolted joints and greater force transmission
— jaw angled 15°
— ring with bi-hex and AS-Drive profile
— ring-end cranked 10°
— reinforcement between jaw and shaft
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated
— DIN 3113 Form B / ISO 7738 Form B



Product no.	mm	L mm	b mm	d mm	a_1 mm	a_2 mm	t mm	g
40100606	6	125	14	9.5	4.5	6	7	18
40100707	7	135	16	10.8	5	7	8	25
40100808	8	145	17.5	12.1	5	7	8	28
40100909	9	155	19	13.3	5.5	8	9	34
40101010	10	165	21	14.6	5.5	8	9	43
40101111	11	180	23.5	15.9	6	9	10	55
40101212	12	180	25.5	17.3	6	9	10	61
40101313	13	195	27.5	18.6	6.5	10	11	85
40101414	14	210	29.5	20.1	6.5	10	11	88
40101515	15	215	31	21.4	7	11	13	109
40101616	16	230	33	22.7	7	11	14	108
40101717	17	240	35	24.1	7.5	12	15	155
40101818	18	255	37	25.5	7.5	12	16	151
40101919	19	265	39.5	27	8	13	18	190
40102020	20	280	41.5	28.5	8	13	19	219
40102121	21	280	43	29.8	8.5	13	19	244
40102222	22	300	45	31.3	8.5	14	20	268
40102424	24	330	50	34.3	9.5	14	22	363
40102727	27	385	56	38.6	10.5	16	24	502
40103030	30	415	63	42.6	12	18	26	645
40103232	32	430	67	45.2	12	18	27	666
40103434	34	460	72	48	13	18	27	900
40103636	36	480	74	50.8	13	19	28	951
40104141	41	560	84	57.8	14	20	32	1322

High Performance Quality (HPQ®)

Our HPQ® tool is made of wear-resistant high-performance steel, yet is thin-walled and lightweight. It withstands high torques and is ideal for work in confined spaces such as turbines.

OPEN BOX 14



Combination spanner sets
— **metric, identical** end sizes
— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo

Product no.	Model	Contents	Content pcs.	g
96401006	14/11	8; 9; 10; 11; 12; 13; 14; 15; 17; 19; 22 mm	11	1137
96401004	14/15	6; 7; 8; 9; 10; 11; 12; 13; 17; 19; 22; 24; 27; 30; 32 mm	15	3370
96401005	14/17	6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm	17	1874

OPEN BOX 14



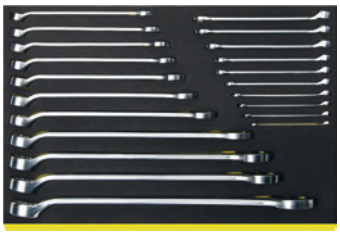
Combination spanner set
— **metric, identical** end sizes
— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo

Product no.	Model	Contents	Content pcs.	g
96401007	14/10	8; 10; 11; 12; 13; 14; 16; 17; 18; 19 mm	10	1235



Anti-Slip-Drive
The special AS-Drive profile makes high force transmission to the flats of screws and bolts possible without damaging them. This also prevents stripping of the screw head.

TCS OPEN BOX 14/21 6-36



Combination spanner set
— **metric, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)

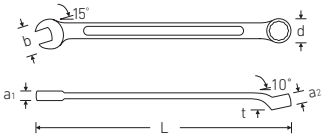
Contains 21-pieces:
21 combination spanners **No. 14**: 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32; 36 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96838771	350	530	75	3/3	21	4988

4014



Combination spanners
— **metric, identical** end sizes
— jaw angled 15°
— ring with bi-hex
— ring-end cranked 10°
— Chrome Alloy Steel, chrome-plated

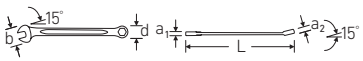


Product no.	mm	L mm	b mm	d mm	a_1 mm	a_2 mm	t mm	g
40146565	65	710	133	98	22	33	49.5	4500
40147070	70	760	143	105	24	35	53.5	5500
40147575	75	810	153	110	26	38	57.5	6500
40148080	80	860	163	119	28	41	63.5	8000

OPEN BOX 16



Combination spanners
— **metric, identical** end sizes
— jaw angled 15°
— ring with hex
— ring-end cranked 15°
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— Chrome Alloy Steel, chrome-plated
— ISO 3318



Product no.	mm	L mm	b mm	d mm	a_1 mm	a_2 mm	g
40093232	3.2	75	10	6.6	3	3.2	6
40093535	3.5	75	10	6.6	3	3.2	6
40094040	4	85	12.5	7.8	3	3.2	9
40094545	4.5	85	12.5	7.8	3	3.2	8
40095050	5	95	14	9.8	3	3.2	11

OPEN BOX 16/5



Combination spanner set
— **metric, identical** end sizes
— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo
Contains 5-pieces:
5 combination spanners **No. 16**: 3.2; 3.5; 4; 4.5; 5 mm

Product no.	Model	Content pcs.	g
96400902	16/5	5	46

MIXED SPANNER SETS.

TCS 9 821/28



Spanner set
— **metric, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 28-pieces:
13 combination spanners **No. 14**: 6; 8; 10; 13; 14; 17; 19; 21; 22; 24; 27; 30; 32 mm
15 double open-ended spanners **No. 12**: 3.2; 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830272	350	530	70	3/3	28	4143

TCS 4 821/22



Spanner set
— **metric, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 22-pieces:
16 combination spanners **No. 13**: 6; 7; 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24 mm
1 adjustable spanner **No. 4025**: max. 34 mm
5 combination ratchet spanners, flat **No. 17F**: 8; 10; 13; 17; 19 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830267	350	350	40	2/3	22	2700

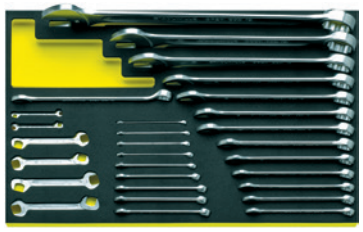
TCS 10/13/24/30



Spanner set
— **metric** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 30-pieces:
9 double open-ended spanners **No. 10**: 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24 mm
20 combination spanners **No. 13**: 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm
1 double-ended open-ring spanner, angled **No. 24**: 10 x 11 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830605	350	530	75	3/3	30	3724

TCS 12/13/14/29



Spanner set
— **metric, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 29-pieces:
6 double open-ended spanners **No. 12**: 5.5; 12; 14 mm (x 2)
22 combination spanners **No. 13**: 6; 7 (x 2); 8; 9; 10; 11 (x 2); 12; 13; 14; 15; 16; 17; 18; 19; 20; 22; 24; 30; 32; 36 mm
1 combination spanner **No. 14**: 17 mm

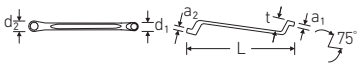
Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830193	350	530	80	3/3	29	3752

DOUBLE-ENDED RING SPANNERS AND SETS.

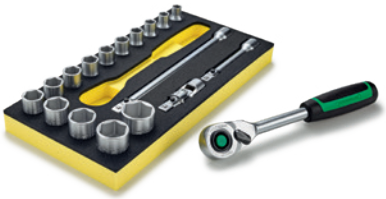
StahlwilleSTABIL® 20



Double-ended ring spanners
— **metric, differing** end sizes
— deeply cranked
— bi-hex with AS-Drive profile
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated



Product no.	mm	L mm	d_1 mm	d_2 mm	a_1 mm	a_2 mm	t mm	g
41040607	6 x 7	165	10.5	11.8	6	7	18	46
41040809	8 x 9	180	13.1	14.5	7	8	20	62
41040810	8 x 10	180	13.1	15.8	7	9	21	61
41041011	10 x 11	200	15.8	17.2	9	9	23	93
41041013	10 x 13	220	15.8	20	9	10	25	122
41041213	12 x 13	220	18.6	20	9	10	25	126
41041317	13 x 17	245	20	25.3	10	12	27	169
41041415	14 x 15	245	21.3	22.6	10	12	27	163
41041617	16 x 17	255	23.9	25.3	11	12	27	181
41041719	17 x 19	270	25.3	28	12	13	29	220
41041819	18 x 19	275	26.6	28	12	13	29	220
41041821	18 x 21	300	26.6	30.7	12	13	31	279
41041922	19 x 22	300	28	32.1	13	14	31	315
41042022	20 x 22	300	29.4	32.1	13	14	31	317
41042123	21 x 23	315	30.7	33.4	13	14	31	312
41042124	21 x 24	330	30.7	34.7	13	14	34	384
41042224	22 x 24	330	32.1	34.7	14	14	34	368
41042426	24 x 26	330	34.7	37.3	14	15	34	427
41042427	24 x 27	330	34.7	38.6	14	15	34	447
41042528	25 x 28	350	36	40	14	15	34	414
41042730	27 x 30	360	38.3	42.6	15	15	37	595
41042732	27 x 32	360	39.3	47.2	15	16	37	596
41043032	30 x 32	365	42.6	45.4	15	16	37	640
41043034	30 x 34	365	42.6	48	15	16	37	660
41043641	36 x 41	440	53	60	17	18	40	1015
41044650	46 x 50	535	65.2	73	19	20	45	1709

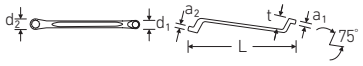


Tool Control System
The intelligent modular inlay system protects and organises the tools in tool boxes, workshop trolleys and workshop benches. Two-colour foam inlays make checking the completeness of the tools quick and easy.

StahlwilleSTABIL® 20a

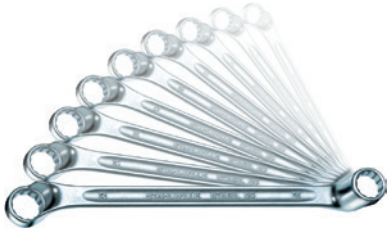


Double-ended ring spanners
— **imperial, differing** end sizes
— deeply cranked
— bi-hex with AS-Drive profile
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated



Product no.	"	L mm	d_1 mm	d_2 mm	a_1 mm	a_2 mm	t mm	g
41441620	$^{1}/_{4}$ x $^{5}/_{16}$	180	11.8	13.1	7	7	20	55
41442428	$^{3}/_{8}$ x $^{7}/_{16}$	200	15.8	17.2	9	9	23	88
41443234	$^{1}/_{2}$ x $^{9}/_{16}$	220	20	21.3	9	10	25	120
41443436	$^{9}/_{16}$ x $^{5}/_{8}$	245	21.3	25.3	10	12	27	168
41443538	$^{19}/_{32}$ x $^{11}/_{16}$	255	23.9	25.3	11	12	27	175
41443640	$^{5}/_{8}$ x $^{3}/_{4}$	270	23.9	28	12	13	29	235
41443842	$^{11}/_{16}$ x $^{13}/_{16}$	300	25.3	30.7	12	13	31	280
41444044	$^{3}/_{4}$ x $^{7}/_{8}$	300	28	32.1	13	14	31	299
41444142	$^{25}/_{32}$ x $^{13}/_{16}$	300	29.4	32.1	13	14	31	333
41444446	$^{7}/_{8}$ x $^{15}/_{16}$	330	32.1	34.7	14	14	34	363
41444648	$^{15}/_{16}$ x 1	330	34.7	37.3	14	15	34	419
41445258	1 $^{1}/_{8}$ x 1 $^{5}/_{16}$	365	42.6	45.4	15	16	37	581

StahlwilleSTABIL® 20



Double-ended ring spanner sets
— **metric, differing** end sizes in cardboard packaging

Product no.	Model	Contents	Content pcs.	g
96410408	20/7	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19 mm	7	930
96410405	20/8	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22 mm	8	1220
96410409	20/9	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 24 mm	9	1615
96410407	20/10	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32 mm	10	2331
96410406	20/12	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 25 x 28; 30 x 32 mm	12	3137

StahlwilleSTABIL® 20a

Double-ended ring spanner sets
— **imperial, differing** end sizes in cardboard packaging

Product no.	Model	Contents	Content pcs.	g
96414402	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 $^{15}/_{16}$"	6	1200
96414405	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 $^{15}/_{16}$"	10	2200

TCS StahlwilleSTABIL® 20/10 6x7-30x32



Double-ended ring spanner set
— **metric, differing** end sizes
— safely integrated in the modular Tool Control System (TCS)

Contains 10-pieces:
10 double-ended ring spanners **No. 20**: 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22; 24 x 27; 30 x 32 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830166	350	350	45	2/3	10	2500

TCS StahlwilleSTABIL® 20/8 6x7-19x22MF



Double-ended ring spanner set
— **metric, differing** end sizes
— safely integrated in the modular Tool Control System (TCS)

Contains 8-pieces:
8 double-ended ring spanners **No. 20**: 6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 21; 19 x 22 mm

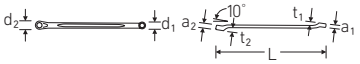
Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830356	350	175	45	1/3	8	1323

CORONA 23



Double-ended ring spanners

— **metric, differing** end sizes
— flat cranked
— bi-hex
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated
— DIN 897 / ISO 10104



Product no.	mm	L mm	d_1 mm	d_2 mm	a_1 mm	a_2 mm	t_1 mm	t_2 mm	g
41070607	6 x 7	170	9.5	10.8	6	7	7	8	41
41070809	8 x 9	179	12.1	13.3	7	8	8	9	49
41071011	10 x 11	188	14.6	15.9	8.5	9.5	9	10	66
41071213	12 x 13	203	17.3	18.6	9.5	10.5	10	11	78
41071415	14 x 15	219	20.1	21.4	10.5	11.5	11	13	109
41071617	16 x 17	248	22.7	24.1	11.5	12.5	14	15	144
41071719	17 x 19	250	24.1	27	12.5	13.5	15	18	162
41071819	18 x 19	251	25.5	27	12.5	13.5	16	18	157
41072022	20 x 22	280	28.5	31.3	13.5	14.5	19	20	223
41072123	21 x 23	328	29.8	32.9	13.5	14.5	19	22	281
41072427	24 x 27	376	34.3	38.6	14.5	16	22	24	426
41073032	30 x 32	429	42.6	45.2	18	18	26	27	608

CORONA 23/8



Double-ended ring spanner set

— **metric, differing** end sizes in cardboard packaging

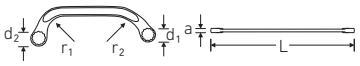
Product no.	Model	Contents	Content pcs.	g
96410704	23/8	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22 mm	8	870

STARTER 27



Double-ended ring spanners

— **metric, differing** end sizes
— suitable for working in confined spaces
— bi-hex with AS-Drive profile
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated
— ISO 3318



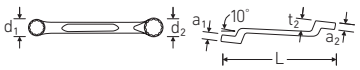
Product no.	mm	L mm	a mm	d_1 mm	d_2 mm	r_1 mm	r_2 mm	g
41091012	10 x 12	150	6.5	16.5	19.5	35	60	53
41091113	11 x 13	150	6.5	16.5	19.5	35	60	50
41091416	14 x 16	179	7.5	21	24.5	36	64	91
41091417	14 x 17	179	7.5	21	24.5	36	64	89
41091517	15 x 17	184	7.5	22.5	25	38	66	96
41091618	16 x 18	200	8.5	25.3	27.5	47	68	130
41091922	19 x 22	225	9	28	32	48	67	164

180a



Double-ended ring spanners

— **imperial, differing** end sizes
— short, flat cranked
— bi-hex
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— HPQ® high performance steel, chrome-plated
— Fed. Spec. GGG-W-636 E / S.B.A.C. Techn. Spec. T.S. 48 up to 1/2"



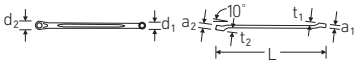
Product no.	"	L mm	d_1 mm	d_2 mm	a_1 mm	a_2 mm	t_1 mm	t_2 mm	g
41601620	1/4 x 5/16	107	10.2	11.8	7	8	7.2	7.4	26
41602428	3/8 x 7/16	122	14.6	16.7	6.7	7.8	9	10	42
41603234	1/2 x 9/16	141	18.5	20.7	8.7	9.5	11	12	62
41603436	9/16 x 5/8	148	20.7	22.6	9.5	10.5	11.5	12.5	90

230a



Double-ended ring spanners

— **imperial, differing** end sizes
— flat cranked
— bi-hex with AS-Drive profile
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— HPQ® high performance steel, chrome-plated
— SAE AS 954 (dimensions and test values) / Fed. spec. GGG-W-636E / S.B.A.C. Techn. spec. T.S. 48 to 1/2"



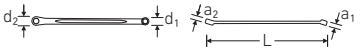
Product no.	"	L mm	d1 mm	d2 mm	a1 mm	a2 mm	t1 mm	t2 mm	g
41611620	1/4 x 5/16	180	10.2	11.9	5.2	6	7.9	8.8	45
41612022	5/16 x 11/32	195	11.9	13.5	7	8	8	9	45
41612024	5/16 x 3/8	195	11.9	14.6	6	7.9	10.8	12.4	54
41612428	3/8 x 7/16	215	14.6	16.7	7.9	8.7	11.4	11.7	74
41612832	7/16 x 1/2	225	16.7	19.5	8.7	9.1	11.9	12.6	105
41613234	1/2 x 9/16	235	19.5	20.7	9.1	9.5	12.2	12.9	110
41613436	9/16 x 5/8	245	20.7	22.6	9.5	11.5	13.8	13.9	122
41613640	5/8 x 3/4	274	22.6	27.5	11.1	12	14.8	15.8	160
41613840	11/16 x 3/4	275	25.4	27.5	11.1	12	15.2	15.8	190
41614244	13/16 x 7/8	301	29.5	31.7	13.5	14.5	19	20	260
41614648	15/16 x 1	340	34.1	36.5	14.5	15	22	23	375
41614850	1 x 1 1/16	368	36.5	38.6	15	16	23	24	460
41615256	1 1/8 x 1 1/4	403	40.8	45	16	18	25	27	620

220



Double-ended ring spanners

— **metric, differing** end sizes
— cranked 15°
— bi-hex with AS-Drive profile
— extra long design for less effort with constant torque
— suitable for working in confined spaces
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— HPQ® high performance steel, chrome-plated



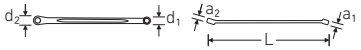
Product no.	mm	L mm	d1 mm	d2 mm	a1 mm	a2 mm	g
41035507	5.5 x 7	185	8.8	11	5.3	5.8	28
41030608	6 x 8	205	9.8	12.1	5.6	6	34
41030911	9 x 11	250	14.2	16.7	8	8.7	80
41031011	10 x 11	250	15.5	16.7	8	8.7	80
41031214	12 x 14	290	18.3	20.7	9.5	9.5	162
41031314	13 x 14	290	18.7	20.7	9.5	9.5	160
41031719	17 x 19	365	25	27.5	11	12	296
41031819	18 x 19	365	25.5	27.5	11	12	295
41031922	19 x 22	408	27.5	31.5	13	14.3	520
41032022	20 x 22	409	28.5	31.5	13	14.3	515

220a



Double-ended ring spanners

— **imperial, differing** end sizes
— cranked 15°
— bi-hex with AS-Drive profile
— extra long design for less effort with constant torque
— suitable for working in confined spaces
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— HPQ® high performance steel, chrome-plated
— SAE AS 954-E (test values)



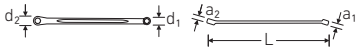
Product no.	"	L mm	d1 mm	d2 mm	a1 mm	a2 mm	g
41431416	7/32 x 1/4	184	9	9.9	5.3	5.8	29
41431620	1/4 x 5/16	205	9.9	12.2	5.6	6	33
41432428	3/8 x 7/16	250	14	16	8	8.7	79
41433234	1/2 x 9/16	290	18.5	21	9.5	9.5	160
41433640	5/8 x 3/4	363	22.6	27	11	12	298
41433840	11/16 x 3/4	365	25	27	11	12	291

220aSP



Double-ended ring spanners

— **imperial, differing** end sizes
— with Spline-Drive profile
— cranked 15°
— extra long design for less effort with constant torque
— suitable for working in confined spaces
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— HPQ® high performance steel, chrome-plated
— MS-33787 / MIL-W-8982



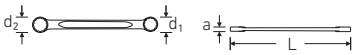
Product no.	Size	"	L mm	d1 mm	d2 mm	a1 mm	a2 mm	g
41160709	7 x 9	7/32 x 9/32	185	9.4	11.5	5.3	5.8	28
41160810	8 x 10	1/4 x 5/16	205	10.4	12.4	5.6	6	33
41161214	12 x 14	3/8 x 7/16	250	14.9	17	8	8.7	79
41161618	16 x 18	1/2 x 9/16	290	19	21	9.5	9.5	161
41161820	18 x 20	9/16 x 5/8	315	21	23	10	11	205
41162224	22 x 24	11/16 x 3/4	365	25	27.5	11	12	310
41162630	26 x 30	13/16 x 15/16	410	29.5	34	13	14.3	496
41162832	28 x 32	7/8 x 1	430	32	36.5	13.5	15	582

StahlwilleSTABIL®21



Double-ended ring spanners

— **metric, differing** end sizes
— straight version
— bi-hex with AS-Drive profile
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated
— DIN 837 / ISO 10103



Product no.	mm	L mm	a mm	d1 mm	d2 mm	g
41050607	6 x 7	100	4.5	9.6	11	14
41050809	8 x 9	115	5.5	12.5	14	19
41050810	8 x 10	115	6	12.5	15.4	18
41051011	10 x 11	130	6	15.4	16.6	30
41051213	12 x 13	150	6.5	18.2	19.5	42
41051317	13 x 17	165	8	19.5	25	57
41051415	14 x 15	165	7.5	21	22.5	55
41051617	16 x 17	170	8	23.8	25	68
41051719	17 x 19	185	8	25	27.6	78
41051819	18 x 19	185	9	26.3	27.6	84
41051821	18 x 21	210	9	26.3	30.5	107
41051922	19 x 22	210	9	27.6	32.4	109
41052022	20 x 22	210	9	29	32.4	109
41052124	21 x 24	235	10	30.5	34.7	128
41052427	24 x 27	290	11	34.7	38.5	225
41052732	27 x 32	320	12	38.5	45.5	283
41053032	30 x 32	325	12	43	45.5	289
41053034	30 x 34	325	12	43	48.5	307

StahlwilleSTABIL® 21



Double-ended ring spanner sets

— **metric, differing** end sizes in cardboard packaging

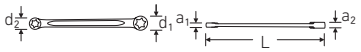
Product no.	Model	Contents	Content pcs.	g
96410503	21/7	8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22 mm	7	397
96410501	21/10	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 24 x 27; 30 x 32 mm	10	943

21TX



Double-ended ring spanners

— **differing** end sizes
— straight version
— for external TORX® screws
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated



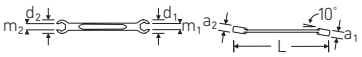
Product no.	Size	L mm	d1 mm	d2 mm	a1 mm	a2 mm	g
41250608	E6 x E8	115.5	9.6	11.6	4.5	5.5	17
41251012	E10 x E12	149.5	13.7	15.7	6.5	7.5	33
41251418	E14 x E18	185	17.8	22.5	8	9.5	71
41252024	E20 x E24	227	24.7	29.2	10.5	12.5	129

OPEN RING 24



Double-ended open-ring spanners, angled

— **metric, differing** end sizes
— cranked 10°
— hex with AS-Drive profile
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated
— DIN 3118 / ISO 3318

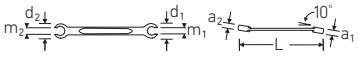


Product no.	mm	L mm	d1 mm	d2 mm	a1 mm	a2 mm	m1 mm	m2 mm	g
41080810	8 x 10	145	17.5	19.5	7	8.5	6.3	7.1	39
41080911	9 x 11	155	18.5	21.5	8.5	9	6.7	8.6	54
41081011	10 x 11	155	19.5	21.5	8.5	9	7.1	8.6	55
41081012	10 x 12	160	19.5	22.5	8.5	9.5	7.1	9	59
41081113	11 x 13	170	21.5	24	9	10	8.6	10	80
41081214	12 x 14	180	24	26	9.5	10.5	9	11	89

OPEN RING 24



Double-ended open-ring spanners, angled
— **metric, differing** end sizes
— cranked 10°
— bi-hex with AS-Drive profile
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated
— DIN 3118 / ISO 3318

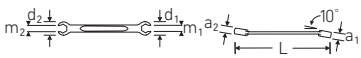


Product no.	mm	L mm	d1 mm	d2 mm	a1 mm	a2 mm	m1 mm	m2 mm	g
41081417	14 x 17	200	26	30	10.5	12	11	14	115
41081719	17 x 19	220	30	33	12	13	14	15.8	150
41081922	19 x 22	230	33	37	13	15	15.8	17	192
41082224	22 x 24	245	37	40.5	15	16	17	18	251
41082427	24 x 27	270	40.5	44.5	16	17.5	18	20	310
41082736	27 x 36	300	42	54	16	19	20	27	414
41083032	30 x 32	300	48.5	50.5	20	22	22	24	455

OPEN RING 24a



Double-ended open-ring spanners, angled
— **imperial, differing** end sizes
— cranked 10°
— hex with AS-Drive profile
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated

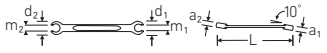


Art. No.	"	L mm	d1 mm	d2 mm	a1 mm	a2 mm	m1 mm	m2 mm	g
41481620	1/4 x 5/16	105	16.5	18	5.5	7	3.7	5	32
41482024	5/16 x 3/8	145	17.5	19.5	7	8.5	6.3	7.1	39
41482428	3/8 x 7/16	155	19.5	21.5	8.5	9	7.1	8.6	57
41483234	1/2 x 9/16	180	24	26	9.5	10.5	9.5	11	87

OPEN RING 24a



Double-ended open-ring spanners, angled
— **imperial, differing** end sizes
— cranked 10°
— bi-hex with AS-Drive profile
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated



Art. No.	"	L mm	d1 mm	d2 mm	a1 mm	a2 mm	m1 mm	m2 mm	g
41483640	5/8 x 3/4	218	29	33	12	13	12.7	15.8	148
41484048	3/4 x 1	232	33	40.2	13	16	15.8	19	199

TCS OPEN RING 24/7 8x10-19x22





Double-ended open-ring spanner set
— **metric, differing** end sizes
— safely integrated in the modular Tool Control System (TCS)

Contains 7-pieces:

7 double-ended open-ring spanners, angled **No. 24**: 8 x 10; 10 x 11; 11 x 13; 12 x 14; 14 x 17; 17 x 19; 19 x 22 mm

Product no.	L mm	W mm	H mm	Content pcs.	g
96838758	350	175	35	7	780

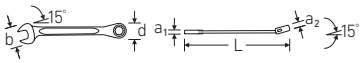
COMBINATION RATCHET SPANNERS AND SETS.

OPEN RATCH 17



Combination ratchet spanners

— **metric, identical** end sizes
— jaw angled 15°
— ring with bi-hex
— ring-end cranked 15°
— integrated ratchet with 72 teeth, with a working angle of 5°
— controlled right/left tightening using the switch on the ring
— reinforced connection between jaw and shaft
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated



Product no.	mm	L mm	b mm	d mm	a_1 mm	a_2 mm	g
41170808	8	144	17	18.0	4.7	7.4	45
41170909	9	150	18.8	19.5	5.3	7.4	54
41171010	10	158	21.7	21.0	5.7	8.4	65
41171111	11	165	23	22.0	6.1	8.4	71
41171212	12	173	25.2	23.5	6.4	8.4	85
41171313	13	182	26.5	25.0	6.6	8.4	94
41171414	14	190	29.5	26.5	7.3	8.4	117
41171515	15	202	31.3	28.0	7.5	8.4	131
41171616	16	215	33.4	29.0	7.7	10.0	156
41171717	17	229	36.3	30.5	7.9	10.0	178
41171818	18	240	38	32.0	8.4	11.5	212
41171919	19	252	39	34.0	8.7	11.5	235
41172121	21	275	43.5	38.0	9.0	12.5	294
41172222	22	285	46.5	41.0	10.0	13.5	339
41172424	24	296	48.5	45.0	11.0	13.5	425

OPEN RATCH 17



Combination ratchet spanner sets

— **metric, identical** end sizes
— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo

Product no.	Model	Contents	Content pcs.	g
96411705	17/5	8; 10; 13; 17; 19 mm	5	732
96411712	17/12	8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm	12	1745
96411715	17/15	8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24 mm	15	3060

TCS OPEN RATCH 17/5



Combination ratchet spanner set

— **metric, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)

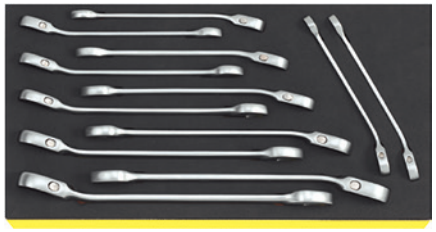
Contains 5-pieces:

5 combination ratchet spanners **No. 17**: 8; 10; 13; 17; 19 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830650	350	175	40	1/3	5	780



TCS OPEN RATCH 17/12



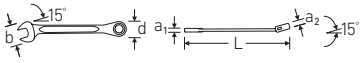
Combination ratchet spanner set
— **metric, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 12-pieces:
12 combination ratchet spanners **No. 17:** 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830649	350	175	80	1/3	12	1460

OPEN RATCH 17a



Combination ratchet spanners
— **imperial, identical** end sizes
— jaw angled 15°
— ring with bi-hex
— ring-end cranked 15°
— integrated ratchet with 72 teeth, with a working angle of 5°
— controlled right/left tightening using the switch on the ring
— reinforced connection between jaw and shaft
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated



Product no.	"	L mm	b mm	d mm	g
41471616	1/4	134	18	17.5	34
41472020	5/16	141	18	18	36
41472424	3/8	156	22	21	64
41472828	7/16	160	22	22	68
41473232	1/2	180	26	25	86
41473434	9/16	190	29	26.5	104
41473636	5/8	210	28	29	150
41473838	11/16	226	35	30.5	168
41474040	3/4	252	39	34.5	218
41474242	13/16	272	43	38	288
41474444	7/8	281	46	41	370
41474848	1	295	48	45	426

OPEN RATCH 17a



Combination ratchet spanner sets
— **imperial, identical** end sizes
— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo

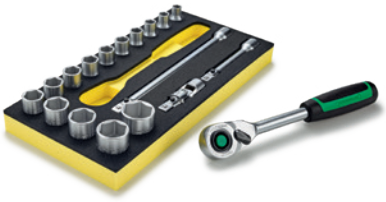
Product no.	Model	Contents	Content pcs.	g
96411709	17a/5	1/4; 5/16; 3/8; 7/16; 9/16"	5	450
96411713	17a/12	1/4; 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8; 1"	12	2440

TCS OPEN RATCH 17a/5



Combination ratchet spanner set
— **imperial, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 5-pieces:
5 combination ratchet spanners **No. 17a**: 1/4; 5/16; 3/8; 7/16; 9/16"

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830653	350	175	40	1/3	5	350



Tool Control System
The intelligent modular inlay system protects and organises the tools in tool boxes, workshop trolleys and workshop benches. Two-colour foam inlays make checking the completeness of the tools quick and easy.

TCS OPEN RATCH 17a/12



Combination ratchet spanner set
— **imperial, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)

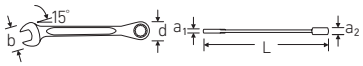
Contains 12-pieces:
12 combination ratchet spanners **No. 17a**: 1/4; 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8; 1"

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830654	350	175	50	1/3	12	2100

OPEN RATCH 17F



Combination ratchet spanners
— **metric, identical** end sizes
— flat version
— ring with bi-hex
— jaw angled 15°
— integrated ratchet with 72 teeth, with a working angle of 5°
— change direction by flipping the spanner over
— reinforced connection between jaw and shaft
— durable, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated



Product no.	mm	L mm	b mm	d mm	g
40170808	8	145	15	18.0	38
40170909	9	150	20	19.5	50
40171010	10	160	20	21.0	58
40171111	11	165	20	22.0	69
40171212	12	170	25	23.5	88
40171313	13	180	25	25.0	98
40171414	14	185	25	26.5	115
40171515	15	200	30	28.0	133
40171616	16	225	30	29.0	154
40171717	17	230	35	30.5	176
40171818	18	240	40	32.0	210
40171919	19	255	40	34.0	241
40172121	21	275	42	38.0	283
40172222	22	285	45	41.0	343
40172424	24	295	47	45.0	447

OPEN RATCH 17F



Combination ratchet spanner sets
— **metric, identical** end sizes
— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo

Product no.	Model	Contents	Content pcs.	g
96401705	17F/5	8; 10; 13; 17; 19 mm	5	744
96411708	17F/6	8; 10; 12; 13; 17; 19 mm	6	860
96401712	17F/12	8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm	12	1700
96401715	17F/15	8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24 mm	15	3060

TCS OPEN RATCH 17F/5

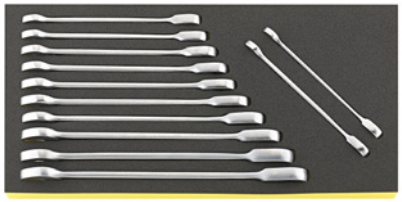


Combination ratchet spanner set
— **metric, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)

Contains 5-pieces:
5 combination ratchet spanners, flat **No. 17F:** 8; 10; 13; 17; 19 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830652	350	175	30	1/3	5	722

TCS OPEN RATCH 17F/12



Combination ratchet spanner set
— **metric, identical** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 12-pieces:
12 combination ratchet spanners, flat **No. 17F:** 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm

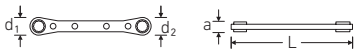
Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830651	350	175	30	1/3	12	1550

DOUBLE-ENDED RATCHET RING SPANNERS AND SETS.

25



Double-ended ratchet ring spanners
— **metric, differing** end sizes
— bi-hex with AS-Drive profile
— straight version
— 22 teeth
— chrome-plated

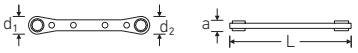


Product no.	mm	L mm	a mm	d_1 mm	d_2 mm	g
41130708	7 x 8	109	9	15	17	55
41130910	9 x 10	139	9	20	23	80
41131011	10 x 11	170	12	26	30	144
41131213	12 x 13	170	12	26	30	135
41131415	14 x 15	170	12	26	30	126
41131618	16 x 18	205	12	33	36	196
41131719	17 x 19	205	12	33	36	188

25a



Double-ended ratchet ring spanners
— **imperial, differing** end sizes
— bi-hex with AS-Drive profile
— straight version
— 22 teeth
— made completely of steel, chrome-plated
— Fed. Spec. GGG-W-001405



Product no.	"	L mm	a mm	d_1 mm	d_2 mm	g
41561620	1/4 x 5/16	109	9	15	17	60
41562022	5/16 x 11/32	109	9	15	17	60
41562428	3/8 x 7/16	139	9	20	23	90
41563234	1/2 x 9/16	174	12	26	30	160
41563638	5/8 x 11/16	205	12	33	36	257
41564044	3/4 x 7/8	235	13	36	40	296
41564246	13/16 x 15/16	235	12	36	40	281

25



Double-ended ratchet ring spanner sets
— **metric, differing** end sizes
— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo

Product no.	Model	Contents	Content pcs.	g
96411302	25/4	9 x 10; 12 x 13; 14 x 15; 17 x 19 mm	4	556
96411301	25/7	7 x 8; 9 x 10; 10 x 11; 12 x 13; 14 x 15; 16 x 18; 17 x 19 mm	7	1150

25a



Double-ended ratchet ring spanner set
— **imperial, differing** end sizes
— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo

Contains 7-pieces:
7 double-ended ratchet ring spanners **No. 25a**: $^{1}/_{4}$ 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 $^{15}/_{16}$"

Product no.	Model	Content pcs.	g
96415601	25a/7	7	1271

TCS 25/7





Double-ended ratchet ring spanner set
— **metric, differing** end sizes
— safely integrated in the modular Tool Control System (TCS)

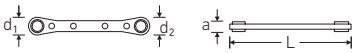
Contains 7-pieces:
7 double-ended ratchet ring spanners **No. 25**: 7 x 8; 9 x 10; 10 x 11; 12 x 13; 14 x 15; 16 x 18; 17 x 19 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96838751	350	175	30	1/3	7	1015

25aSP



Double-ended ratchet ring spanners
— **imperial, differing** end sizes
— straight
— with Spline-Drive profile
— 22 teeth
— chrome-plated

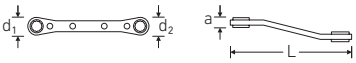


Product no.	Size	"	L mm	a mm	d_1 mm	d_2 mm	g
41570810	8 x 10	$^{1}/_{4}$ x $^{5}/_{16}$	109	9	15	17	59
41571214	12 x 14	$^{3}/_{8}$ x $^{7}/_{16}$	139	9	20	23	84
41571618	16 x 18	$^{1}/_{2}$ x $^{9}/_{16}$	174	12	26	30	153
41572022	20 x 22	$^{5}/_{8}$ x $^{11}/_{16}$	205	12	33	36	250
41572428	24 x 28	$^{3}/_{4}$ x $^{7}/_{8}$	235	13	36	40	279

26a



Double-ended ratchet ring spanners
— **imperial, differing** end sizes
— reversible
— bi-hex with AS-Drive profile
— cranked
— 22 teeth
— chrome-plated



Product no.	"	L mm	a mm	d_1 mm	d_2 mm	g
41551620	$^{1}/_{4}$ x $^{5}/_{16}$	109	9	15	17	55
41552428	$^{3}/_{8}$ x $^{7}/_{16}$	139	9	20	23	80
41553234	$^{1}/_{2}$ x $^{9}/_{16}$	170	12	26	30	140

TOOLS THAT
... inspire

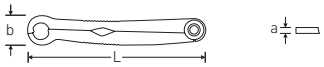
FASTRATCH SPANNERS AND SETS.

FastRatch 240



Ratchet spanners

— particularly suitable for union joints
— suitable for both metric and imperial nuts/bolts
— slim ergonomic design
— made from stainless, tempered steel
— DBGM (German Federal Utility Model)
— patented



Product no.	mm	"	L mm	a mm	b mm	g
41100808	8	5/16	121.4	4	16	60
41101010	10	3/8	133.3	4	20	70
41101111	11	7/16	140.4	5	23	103
41101212	12	15/32	146.3	5	25	100
41101313	13	1/2	168.4	6	26.8	154
41101414	14	9/16	174.6	6	29.6	180
41101616	16	5/8	191.3	7	32.8	270
41101717	17	21/32	201.7	7	34.3	292
41101818	18	11/16	212.8	7	36.2	310
41101919	19	3/4	238.5	7	38.5	367

FastRatch 240



Ratchet spanner sets

— in robust polyester roll-up tool pouch with hook-and-loop fastener
— mesh inserts allow visibility of the tools
— a compact storage solution to keep your tools safe
— embroidered STAHLWILLE logo

Product no.	Model	Contents	Content pcs.	g
96411003	240/4	8 mm - 5/16"; 10 mm - 3/8"; 11 mm - 7/16"; 14 mm - 9/16"	4	510
96411005	240/5	10 mm - 3/8"; 11 mm - 7/16"; 14 mm - 9/16"; 17 mm - 21/32"; 19 mm - 3/4"	5	1122
96411006	240/6	8 mm - 5/16", 10 mm - 3/8", 13 mm – 1/2", 14 mm - 9/16", 17 mm - 21/32", 19 mm - 3/4"	6	1230

TCS FastRatch 240/6



Ratchet spanner set

— safely integrated in the modular Tool Control System (TCS)

Contains 6-pieces:

6 ratchet spanners **No. 240**: 10-3/8; 11-7/16; 13-1/2; 14-9/16; 17-21/32; 19-3/4 mm-"

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96838774	350	175	35	1/3	6	1163



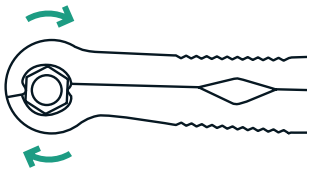
STAHLWILLE FASTRATCH 240 –
The spanner with a difference.

FAST
RATCH



Slim.

The particularly slim design of the FastRatch 240 enables work in confined spaces.



Quick.

No more repositioning, thanks to patented ratchet technology. Our video shows you exactly how this works.

qr.stahlwille.com/cqng8w



Reliable.

Placed over the nut or screw, it enables safe and quick tightening – without repositioning. The 'self-clamping effect' ensures safety and stops slips, preventing the rounding off of the head. Thanks to the integrated closing spring, it reliably grips screws and nuts, even when tension is released.



Unique.

The STAHLWILLE FastRatch 240 combines the advantages of an open-ended spanner with those of a ratchet ring spanner. Thanks to the patented 'opening ring' technology, the FastRatch can operate without problems even on tricky jobs such as pipe fittings, where only an open-ended spanner could otherwise be used.

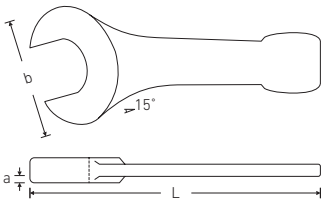
OPEN-ENDED STRIKING SPANNERS AND OPEN-ENDED SPANNERS.

4204



Open-ended striking spanners

— special steel, steel grey
— DIN 133



Product no.	mm	L mm	a mm	b mm	g
42040027	27	180	16	56	321
42040030	30	190	17	62	451
42040032	32	190	17	62	395
42040036	36	215	17.5	76	698
42040041	41	235	18.5	86	923
42040046	46	255	20	98	1245
42040050	50	275	21	105	1445
42040055	55	300	23	116	2057
42040060	60	320	24.5	128	2559
42040065	65	342	27	138	3285
42040070	70	375	30	154	4573
42040075	75	375	30	154	4163
42040080	80	408	34	174	6059
42040085	85	408	34	174	5871
42040090	90	445	38	194	7390
42040095	95	445	38	194	7600
42040100	100	485	44	215	11500

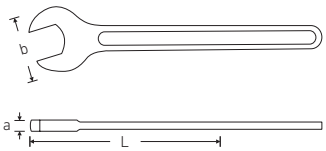


4004



Open-ended spanners

— special steel, steel grey
— DIN 894 up to 85 mm



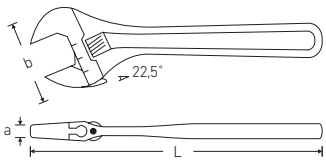
Product no.	mm	L mm	a mm	b mm	g
40040240	24	215	8.9	50	147
40040270	27	238	9.8	56	193
40040300	30	261	10.8	62	275
40040320	32	273	11.8	66	315
40040360	36	300	12.8	74	421
40040410	41	335	12.8	83.5	555
40040460	46	369	14.8	93	770
40040500	50	412	17	102	1003
40040550	55	457	18	112	1235
40040600	60	492	18	122	1650
40040650	65	528	19	132	1900
40040700	70	572	20	142	2035
40040750	75	608	21	152	2758
40040800	80	645	22	162	2963
40040850	85	690	23	173	3510
40040900	90	690	23	173	3425
40040950	95	847	25	195	5943
40041000	100	847	25	195	5500

4025



Adjustable spanners

— clockwise adjustment screw
— jaw angled 22.5°
— Chrome Alloy Steel, chrome-plated
— DIN 3117 / ISO 6787 Form B / ASME B107,100

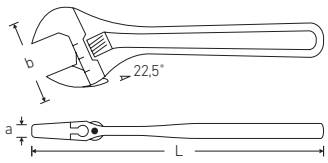


Product no.	Size	max. mm	L mm	a mm	b mm	g
40250104	4	13	115	9.5	35	52
40250106	6	24	161	10.8	50	155
40250108	8	30	207	14	62	310
40250110	10	34	259	15.8	74	490
40250112	12	39	311	19	84	805
40250115	15	44	386	25	106	1320
40250118	18	53	462	30	124	2040

4026



Adjustable spanners
— counter-clockwise adjustment screw
— jaw angled 22.5°
— Chrome Alloy Steel, phosphated
— DIN 3117 / ISO 6787 Form B / ASME B 107.100



Product no.	Size	max. mm	L mm	a mm	b mm	g
40260104	4	13	115	9.5	35	52
40260106	6	24	161	10.8	50	155
40260108	8	30	207	14	62	310
40260110	10	34	259	15.8	74	490
40260112	12	39	311	19	84	805
40260115	15	44	386	25	106	1320
40260118	18	53	462	30	124	2040

TCS 4025/3





Adjustable spanner set
— safely integrated in the modular Tool Control System (TCS)
Contains 3-pieces:
3 adjustable spanners **No. 4025**: 6; 8; 10 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96838797	350	175	30	1/3	3	920

TCS 4026/3





Adjustable spanner set
— safely integrated in the modular Tool Control System (TCS)
Contains 3-pieces:
3 adjustable spanners **No. 4026**: 6; 8; 10 mm

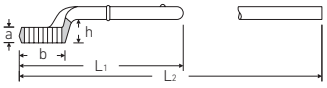
Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96838796	350	175	30	1/3	3	908

HEAVY-DUTY AND STRIKING RING SPANNERS.

5



Heavy-duty ring spanners
— bi-hex
— without handle
— L_2 = length with handle No. 5 1/2
— Chrome Alloy Steel, chrome-plated



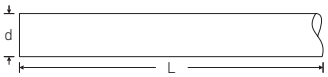
Product no.	Handle no. 5 1/2	mm	L_1 mm	L_2 mm	a mm	b mm	h mm	g
42020024	1	24	180	555	17	38	29.5	381
42020027	1	27	190	560	17	41	31.5	421
42020030	1	30	200	565	18	47	33.5	525
42020032	2	32	235	730	18	49	34	712
42020036	2	36	245	735	20	54	35.5	816
42020038	2	38	250	740	21	56	37.5	810
42020041	2	41	265	750	22	62	39.5	910
42020042	2	42	265	750	22	62	39.5	919
42020046	3	46	280	910	23	69	40	1192
42020050	3	50	290	920	25.5	76	42.5	1426
42020055	3	55	300	925	28	81	45.5	1505
42020060	4	60	345	1050	30.5	90	49	2260
42020065	4	65	355	1060	33	98	53	2495
42020070	4	70	365	1065	35.5	105	55	2700
42020075	4	75	375	1070	38	110	57.6	2905
42020080	4	80	385	1075	40.5	125	59	3745
42020085	4	85	385	1075	40.5	125	59	3648
42020090	4	90	410	1100	45	140	63	5238
42020095	4	95	410	1100	45	140	63	4630
42020100	4	100	412	1100	45	143	63	4895

5 1/2



Handles

— for heavy-duty ring spanners No. 5



Product no.	Size	Suitable for	L mm	d mm	g
48030001	1	24-30 mm & 1-1 3/16"	460	19	605
48030002	2	32-42 mm & 1 1/4-1 11/16"	610	22	1562
48030003	3	46-55 mm & 1 3/4-2 1/4"	760	25	2820
48030004	4	60-100 mm & 2 3/8-3 7/8"	860	30	3705

StahlwilleSTABIL® 8



Striking ring spanners

— for heavy assembly work
— bi-hex
— slim ring wall thickness for work in tight spaces
— reinforced striking end for a larger striking surface
— Chrome Alloy Steel, drop-forged, green lacquered



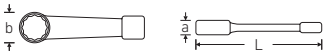
Product no.	mm	L mm	a mm	b mm	g
42010032	32	195	24	47	661
42010036	36	195	26	52.4	684
42010041	41	200	29	59	896
42010046	46	250	32	65	1218
42010050	50	280	35	70	1555
42010055	55	300	38	76	2087
42010060	60	300	42	82.5	2394
42010065	65	325	45	90.5	3209
42010070	70	355	48	97	3649
42010075	75	360	51	103.5	4428
42010080	80	440	57	110	5895
42010085	85	440	57	117	6033
42010090	90	445	60	124	6885
42010095	95	450	67	131	7875
42010100	100	455	72	137	10224

4205



Striking ring spanners

— bi-hex
— special steel, grey
— DIN 7444



Product no.	mm	L mm	a mm	b mm	g
42050024	24	160	15	42.5	200
42050026	26	160	15	42.5	200
42050027	27	180	16	46	260
42050030	30	190	16.5	51.5	365
42050032	32	195	16.5	53	353
42050036	36	205	19.5	60	505
42050038	38	205	19.5	60	500
42050041	41	225	20.5	66	730
42050042	42	225	20.5	66	671
42050046	46	240	22.5	75	915
42050048	48	240	22.5	75	920
42050050	50	250	23.5	80	1120
42050055	55	270	25	87.5	1375
42050060	60	270	26	93.5	1565
42050065	65	290	29	101	2100
42050070	70	320	33	109.5	2930
42050075	75	325	34	114.5	2780
42050080	80	345	35	126	4100
42050085	85	360	37	129	3835
42050090	90	400	41.5	152	5180
42050095	95	400	41.5	152	4900
42050100	100	400	41.5	152	6560

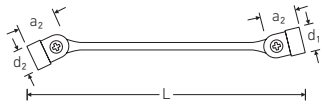


DOUBLE-ENDED FLEXI-JOINT SPANNERS AND SETS.

FLEXI 29



Double-ended flexi-joint spanner
— **metric, differing** end sizes
— swivelling head, hex with AS-Drive profile
— robust, slim and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop-forged, hardened, and cooled in an oil bath
— Chrome Alloy Steel, chrome-plated

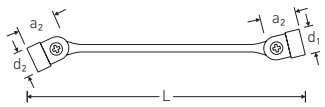


Product no.	mm	L mm	d_1 mm	d_2 mm	a_1 mm	a_2 mm	g
43010607	6 x 7	180	9.5	11	23	23	51

FLEXI 29



Double-ended flexi-joint spanners
— **metric, differing** end sizes
— swivelling head, bi-hex with AS-Drive profile
— durable, slim, and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop forged, hardened and cooled in oil bath
— Chrome Alloy Steel, chrome plated

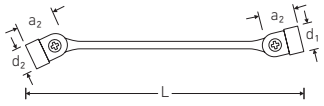


Product no.	mm	L mm	d_1 mm	d_2 mm	a_1 mm	a_2 mm	g
43010809	8 x 9	201	26	27.5	11.9	13.4	81
43011011	10 x 11	202	30.5	32	14.7	15.9	102
43011013	10 x 13	230.5	30	33.5	14.7	18.4	137
43011213	12 x 13	228	33	33.5	17.2	18.4	153
43011415	14 x 15	227	35	37	19.7	20.9	197
43011617	16 x 17	247	38.5	39	22.2	23.7	234
43011618	16 x 18	249	38.5	40	22.2	24.7	267
43011719	17 x 19	250	39	41	23.7	26.3	277
43011819	18 x 19	246.5	40	41	24.7	26.3	294
43012022	20 x 22	287.5	45.5	48	27.3	29.8	430
43012123	21 x 23	286.5	46.5	50	28.6	31.1	447
43012427	24 x 27	349.5	50.5	60.5	32.4	36.1	716

FLEXI 29a



Double-ended flexi-joint spanners
— **imperial, differing** end sizes
— swivelling head, hex with AS-Drive profile
— durable, slim, and lightweight design
— high flexural strength due to double-T profile
— STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
— drop forged, hardened and cooled in oil bath
— Chrome Alloy Steel, chrome plated



Product no.	"	L mm	d_1 mm	d_2 mm	a_1 mm	a_2 mm	g
43412428	$^3/_8$ x $^7/_{16}$	202	14	16	30.5	32	98
43413234	$^1/_2$ x $^9/_{16}$	227	18.1	20	35	37	195
43413638	$^5/_8$ x $^{11}/_{16}$	249.5	22.1	24	39	40	269

FLEXI 29/7



Double-ended flexi-joint spanner set
— **metric, differing** end sizes
— in cardboard packaging

Contains 7-pieces:
7 double-ended flexi-joint spanners **No. 29**: 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22 mm

Product no.	Content pcs.	g
96430101	7	1503

TCS FLEXI 29/6 8x9-18x19



Double-ended flexi-joint spanner set
— **metric, differing** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 6-pieces:
6 double-ended flexi-joint spanners **No. 29**: 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19 mm

Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96838764	350	175	35	1/3	6	1079

TCS FLEXI 29/7 8x9-20x22



Double-ended flexi-joint spanner set
— **metric, differing** end sizes
— safely integrated in the modular Tool Control System (TCS)
Contains 7-pieces:
7 double-ended flexi-joint spanners **No. 29**: 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22 mm

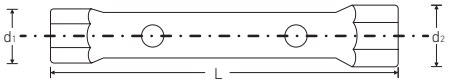
Product no.	L mm	W mm	H mm	Size	Content pcs.	g
96830195	350	175	40	1/3	7	1520

BOX SPANNERS AND SETS.

10750



Box spanners
— **metric, differing** end sizes
— hex
— made of seamlessly drawn precision steel tubing
— recessed at both ends
— Chrome Alloy Steel, surface polished and chrome plated
— DIN 896 Form B



Product no.	mm	L mm	d_1 mm	d_2 mm	Rotary pin no.	g
43330607	6 x 7	110	10.5	11.5	6	26
43330809	8 x 9	110	13	14.5	6	38
43331011	10 x 11	125	16	17	6	50
43331213	12 x 13	145	19	20.5	6	78
43331415	14 x 15	145	21.5	22.5	6	78
43331617	16 x 17	155	24	26	7	127
43331719	17 x 19	160	26	28.5	7	199
43331819	18 x 19	160	27.5	28.5	7	199
43332022	20 x 22	170	29.5	32	7	232
43332123	21 x 23	170	30.5	33	7	251
43332426	24 x 26	190	34.5	37	7	300
43332427	24 x 27	190	34.5	38.5	7	301
43332428	24 x 28	196	32.1	36.7	7	320
43333032	30 x 32	205	42	45	8	382
43333236	32 x 36	225	45	50	8	535
43333641	36 x 41	225	50	56	8	648
43334146	41 x 46	245	56	62	8	845
43334650	46 x 50	245	62	68	8	878
43335560	55 x 60	245	70	76	8	1178

TOOLS THAT
... inspire

10750



Box spanner sets
— **metric, differing** end sizes
— hex
— made of seamlessly drawn precision steel tubing
— recessed at both ends
— Chrome Alloy Steel, surface polished and chrome plated
— DIN 896 Form B

Product no.	Model	Contents	Content pcs.	g
96431202	10750/7	8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22 mm	7	830
96431205	10750/11	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22; 21 x 23; 24 x 27; 30 x 32 mm	11	1830

10750 1/2



Tommy bars
— for No. 10750
— stepped

Product no.	Size	Suitable for	L mm	g
48010006	6	6 x 7-14 x 15 mm	180	49
48010007	7	16 x 17-24 x 28 mm	320	305
48010008	8	30 x 32-55 x 60 mm	630	1400

HOOK SPANNERS.

12910



Adjustable hook spanners
— for slotted nuts
— adjustable
— with teeth
— DIN 1810

Product no.	Size	Span mm	g
44010001	1	20-42	90
44010002	2	45-90	245
44010003	3	95-165	686

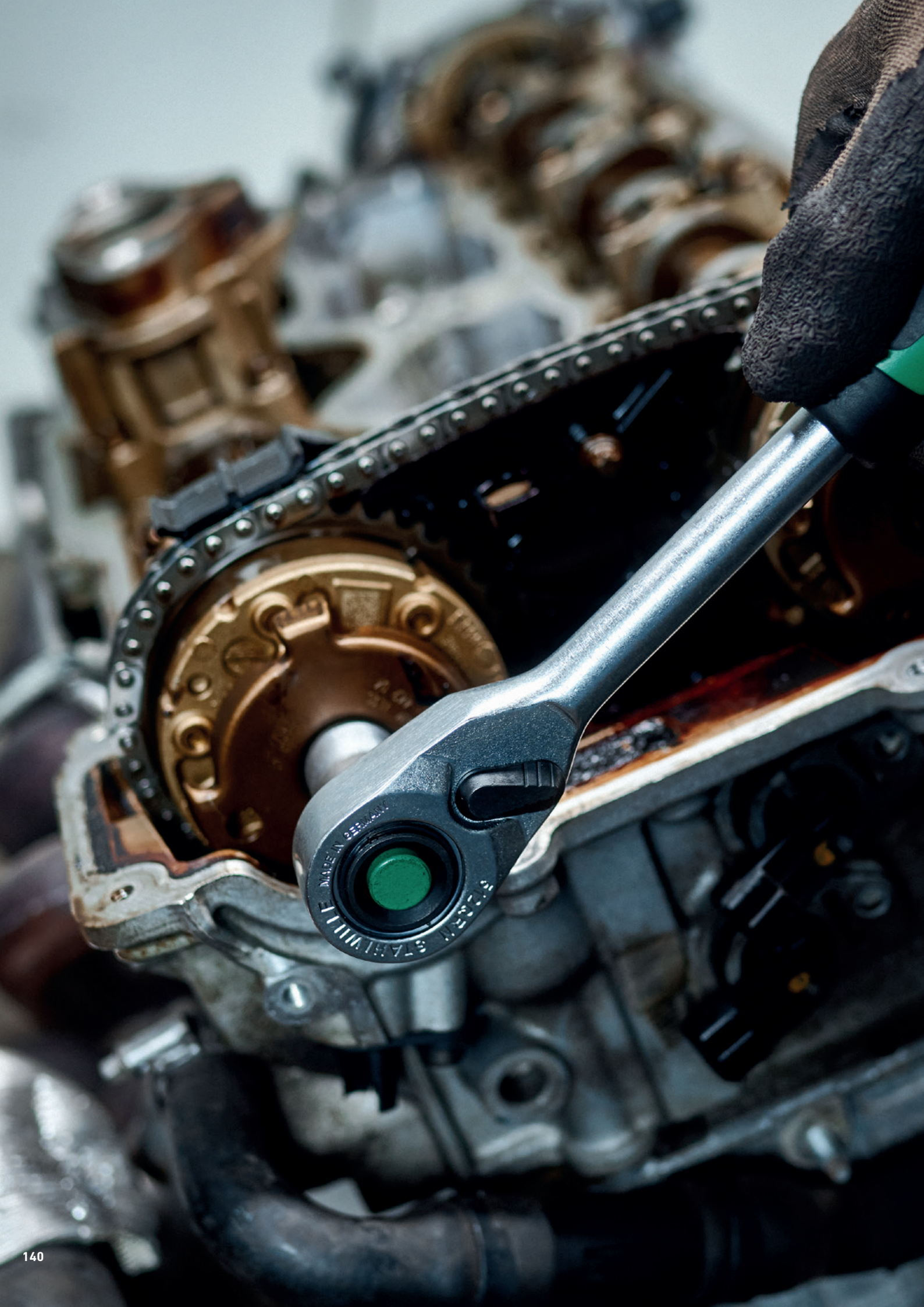
SPANNER ACCESSORIES.

12950/11



Spanner holder
— for 11 spanners
— with lockable flap for securing the tools
— with EURO perforation, for hanging
— robust plastic design, with folding carrying handle

Product no.	L mm	g
89932000	125	152


MADE IN GERMANY

3 Socketry

144 1/4" Socketry

169 3/8" Socketry

187 1/2" Socketry

212 3/4" Socketry

217 1" Socketry

219 Adaptor sets

219 Socket accessories

221 Control cabinet keys

222 Empty boxes and inlays

STAHLWILLE SOCKETRY –
Reliable and safe.

Whether it's ratchets, drive tools or accessories – top quality awaits the user in every instance. Our STAHLWILLE tool boxes made of sturdy ABS plastic make everyday work easier thanks to their lightweight and well thought-out design. In addition, STAHLWILLE sockets made of HPQ® high-performance steel are characterised by high load-bearing capacity. And the wide portfolio of ratchets, as well as drive tools and accessories, always ensures the perfect choice of tool.

ROBUST



Robust.

STAHLWILLE set cases are particularly resilient thanks to their torsionally rigid housing design and robust ABS plastic. The high-quality, chemical-resistant hard foam insert holds the tools securely.

Resilient.

Our High Performance Quality (HPQ®) tools are made of wear-resistant high-performance steel, but are thin-walled and lightweight. They withstand high torques and are ideal for work in confined spaces such as turbines.

Gentle.

The special AS-Drive profile makes high force transmission to the flats of nuts and bolts possible without damaging them. This also prevents stripping of the screw head.



MADE IN CRONENBERG
MADE IN GERMANY

Efficient.

Our fine-tooth ratchets with 80 teeth re-engage after just 4.5° for maximum precision in confined spaces. Eight pairs of teeth engage simultaneously to ensure maximum load-bearing capacity and particularly smooth running, even at high torques.

Varied.

STAHLWILLE fine-tooth ratchets are available in the common drive sizes of ¼", ⅜" and ½" with 2-component handle or slim steel handle. The mini fine-tooth bit ratchet, the fine-tooth flexible head ratchet and the Hi-LOK™ variant round off the range of fine tooth ratchets.

Reliable.

The QuickRelease safety lock prevents unintentional loss of attached tools and accessories. These lock securely into place, and are only released again at the push of a button for a quick tool change.

FOD preventative.

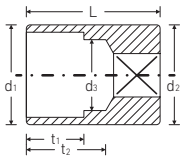
STAHLWILLE protects against FOD (Foreign Object Damage). Thanks to the screwless design, these tools are ideal for use in safety-relevant areas.

1/4" SOCKETRY.

40



Sockets
- hex with AS-Drive profile
- 1/4" internal square drive
- HPQ® high performance steel, chrome-plated
- DIN 3124 / ISO 2725-1 / DIN EN 3709 / ASME B 107.5M



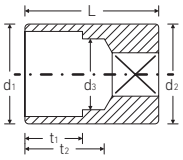
Product no.	mm	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01010003	3	23	5.6	10.7	2.5	2	15	7
01010032	3.2	23	5.6	10.7	2.5	2	15	8
01010035	3.5	23	6	10.7	2.5	2.5	15	8
01010004	4	23	6.7	10.7	3.2	3.5	15	9
01010045	4.5	23	7.3	10.7	3.7	4	15	9
01010005	5	23	7.9	10.7	4	4.5	15	8
01010055	5.5	23	8.5	10.7	4.5	6	15	9
01010006	6	23	9.2	10.7	5	6	15	9
01010007	7	23	10.7	10.7	6	6.5	13.4	10
01010008	8	23	11.6	11.6	7	8	13.1	11
01010009	9	23	12.8	12.8	8	8	12.8	14
01010010	10	23	14.3	14.3	9	8	14.9	17
01010011	11	23	15.5	15.5	10	9	14.6	19
01010012	12	23	16.5	16.5	11	9.5	14.3	24
01010013	13	23	17.8	17.8	12	9.5	14	26
01010014	14	24	18.8	18.8	13	10	14.7	30



40a



Sockets
- hex with AS-Drive profile
- 1/4" internal square drive
- HPQ® high performance steel, chrome-plated
- ASME B 107.1/Fed. Spec. GGG-W-641/SAE AS 954-E

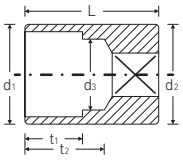


Product no.	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01410008	1/8	23	5.6	10.7	2.5	2	15	7
01410010	5/32	23	6.7	10.7	3.2	3.5	15	9
01410012	3/16	23	7.6	10.7	4	4.5	15	9
01410014	7/32	23	8.6	10.7	5	6	15	9
01410016	1/4	23	9.4	10.7	5.5	6	15	9
01410018	9/32	23	10.7	10.7	6.6	6.5	13.2	10
01410020	5/16	23	11.6	11.6	7	8	13.1	12
01410022	11/32	23	12.7	12.7	8.1	8	13.3	14
01410024	3/8	23	13.7	13.7	8.3	8	13.3	16
01410028	7/16	23	15.8	15.8	10	9	14.6	15
01410032	1/2	23	17.3	17.3	11.5	9.5	14.1	27
01410034	9/16	24	18.8	18.8	13.1	10	14.7	31

40D



Sockets
- bi-hex with AS-Drive profile
- 1/4" internal square drive
- HPQ® high performance steel, chrome-plated
- DIN 3124 / ISO 2725-1 / DIN EN 3709 / ASME B 107.5M

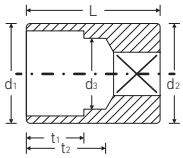


Product no.	mm	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01030005	5	23	7.9	10.7	4	4.5	15	9
01030055	5.5	23	8.5	10.7	4.5	6	15	9
01030006	6	23	9.2	10.7	5	6	15	9
01030007	7	23	10.7	10.7	6	6.5	13.4	10
01030008	8	23	11.6	11.6	7	8	13.1	11
01030009	9	23	12.8	12.8	8	8	12.8	13
01030010	10	23	14.3	14.3	9	8	14.9	16
01030011	11	23	15.5	15.5	10	9	14.6	19
01030012	12	23	16.5	16.5	11	9.5	14.3	23
01030013	13	23	17.8	17.8	12	9.5	14	25
01030014	14	24	18.8	18.8	13	10	14.7	30

40aD



Sockets
- bi-hex with AS-Drive profile
- 1/4" internal square drive
- HPQ® high performance steel, chrome-plated
- ASME B 107.1/Fed. Spec. GGG-W-641/SAE AS 954-E (test values)

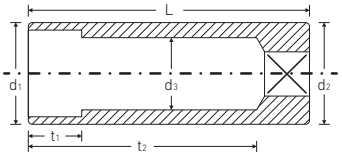


Product no.	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01530010	5/32	23	6.7	10.7	3.2	3.5	15	7
01530012	3/16	23	7.6	10.7	4	4.5	15	7
01530014	7/32	23	8.6	10.7	5	6	15	9
01530016	1/4	23	9.4	10.7	5.5	6	15	8
01530018	9/32	23	10.7	10.7	6.6	6.5	13.2	8
01530020	5/16	23	11.6	11.6	7	8	13.1	11
01530022	11/32	23	12.7	12.7	8.1	8	13.3	13
01530024	3/8	23	13.7	13.7	8.3	8	13.3	16
01530028	7/16	23	15.8	15.8	10	9	14.6	21
01530032	1/2	23	17.3	17.3	11.5	9.5	14.1	26
01530034	9/16	24	18.8	18.8	13.1	10	14.7	30

40aDL



Sockets
- long version
- bi-hex with AS-Drive profile
- 1/4" internal square drive
- HPQ® high performance steel, chrome-plated
- ASME B 107.1 / Fed. Spec. GGG-W-641 / SAE AS 954-E

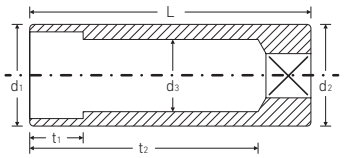


Product no.	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01640010	5/32	50	6.7	10.7	3.2	4.5	42	13
01640012	3/16	50	7.6	10.7	4	4.5	42	15
01640014	7/32	50	8.6	10.7	5	6	42	16
01640016	1/4	50	9.4	10.7	5.2	6	42	19
01640018	9/32	50	10.7	10.7	6.5	8	40.2	20
01640020	5/16	50	11.6	11.6	7	8	40.1	24
01640022	11/32	50	12.7	12.7	8.1	9	39.7	26
01640024	3/8	50	13.7	13.7	8.3	9	39.7	33
01640028	7/16	50	15.8	15.8	10	10.5	41.6	42
01640032	1/2	50	17.3	17.3	11.5	12	41.1	44
01640034	9/16	50	18.8	18.8	13.1	15	40.7	55

40DL



Sockets
- long version
- bi-hex with AS-Drive profile
- 1/4" internal square drive
- HPQ® high performance steel, chrome-plated
- DIN EN 3710/DIN EN 3709/DIN 3124/ISO 2725-1/ASME B 107.5M

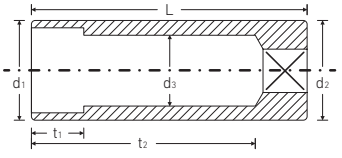


Product no.	mm	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01240005	5	50	7.9	10.7	4	4.5	42	15
01240055	5.5	50	8.5	10.7	4.5	6	42	16
01240006	6	50	9.2	10.7	5	6	42	18
01240007	7	50	10.7	10.7	6	6.5	40.9	21
01240008	8	50	11.6	11.6	7	8	40.1	23
01240009	9	50	12.8	12.8	8	8	39.8	30
01240010	10	50	14.3	14.3	9	9	41.9	35
01240011	11	50	15.5	15.5	10	10.5	41.6	40
01240012	12	50	16.5	16.5	11	12	41.3	47
01240013	13	50	17.8	17.8	12	12	41	50
01240014	14	50	18.8	18.8	13	15	40.7	57

40aDV



Sockets
- bi-hex with AS-Drive profile
- 1/4" internal square drive
- HPQ® high performance steel, chrome-plated
- SAE AS 954-E / S.B.A.C. AS 40605/40606

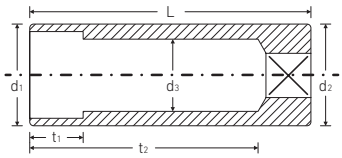


Product no.	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01650014	7/32	31.8	8.6	10.7	5	6	23.8	12
01650016	1/4	31.8	9.4	10.7	5.2	6	23.8	13
01650018	9/32	31.8	10.7	10.7	6.6	6.5	22	13
01650020	5/16	31.8	11.6	11.6	7	8	21.9	15

40L



Sockets
- long version
- hex with AS-Drive profile
- 1/4" internal square drive
- HPQ® high performance steel, chrome-plated
- DIN 3124/ISO 2725-1 / ASME B 107.5M / DIN EN 3710 / DIN EN 3709

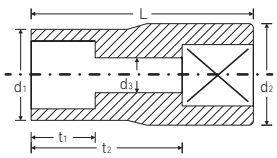


Product no.	mm	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01020032	3.2	50	5.6	10.7	2.5	2	37.5	12
01020004	4	50	6.7	10.7	3.2	3.5	42	14
01020045	4.5	50	7.3	10.7	3.7	4	42	15
01020005	5	50	7.9	10.7	4	4.5	42	16
01020055	5.5	50	8.5	10.7	4.5	6	42	17
01020006	6	50	9.2	10.7	5	6	42	18
01020007	7	50	10.7	10.7	6	6.5	40.9	24
01020008	8	50	11.6	11.6	7	8	40.1	27
01020009	9	50	12.8	12.8	8	8	39.8	31
01020010	10	50	14.3	14.3	9	9	41.9	38
01020011	11	50	15.5	15.5	10	10.5	41.6	43
01020012	12	50	16.5	16.5	11	12	41.3	49
01020013	13	50	17.8	17.8	12	12	41	56

40TX



Sockets
- for external TORX® screws
- 1/4" internal square drive
- HPQ® high performance steel, chrome-plated

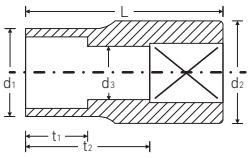


Product no.	Size	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01270004	E4	23	5.6	10.7	2	4.5	15	8
01270005	E5	23	6.7	10.7	2.8	5	15	7
01270006	E6	23	8	10.7	3.6	5.5	15	10
01270007	E7	23	9.6	10.7	3.8	6.5	15	10
01270008	E8	23	10.5	11.6	4.3	7	15	10
01270010	E10	23	12.7	12.7	5.6	9	15	17

40aSP



Sockets
- for external Spline-Drive screws
- 1/4" internal square drive
- HPQ® high performance steel, chrome-plated
- MS-33787 / MIL-W-8982

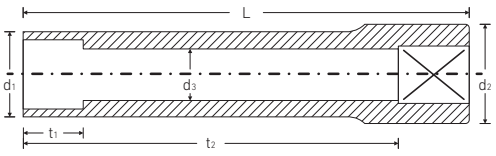


Product no.	Size	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01011007	7	7/32	22.2	8.6	10.7	5	6	14.2	7
01011008	8	1/4	22.2	9.5	10.7	5.6	7	14.2	10
01011009	9	9/32	22.2	11.2	11.2	6.6	8	12.4	10
01011010	10	5/16	22.2	11.6	11.6	7.1	8	12.2	12
01011012	12	3/8	23	13.8	13.8	8.6	8.7	12.6	18
01011014	14	7/16	25	15.7	15.7	10.4	10.7	14.1	24

40aLSP



Sockets
- long version, deep drilled
- for external Spline-Drive screws
- 1/4" internal square drive
- HPQ® high performance steel, chrome-plated
- MS-33787 / MIL-W-8982



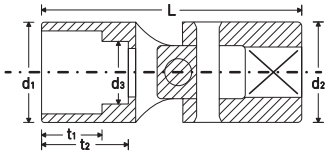
Product no.	Size	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01021007	7	7/32	50.8	8.6	10.7	5	6	42.8	18
01021008	8	1/4	50.8	9.5	10.7	5.6	8	42.8	24
01021010	10	5/16	50.8	11.6	11.6	7.1	8	40.8	27

402



Uniflex sockets

— bi-hex with AS-Drive profile
— 1/4" internal square drive
— HPQ® high performance steel, chrome-plated



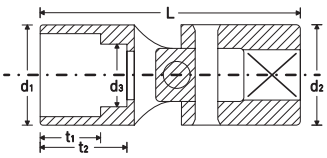
Product no.	mm	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01140006	6	32	9.2	12.7	5	5.5	10	16
01140007	7	33.5	10.4	12.7	6	6	11.5	16
01140008	8	35	11.6	12.7	6.7	8	13	17
01140009	9	36	13	12.7	8	8	12	20
01140010	10	38	14.2	12.7	9	12	14	21

402aK



Uniflex sockets

— extra short version
— bi-hex with AS-Drive profile
— 1/4" internal square drive
— HPQ® high performance steel, chrome-plated



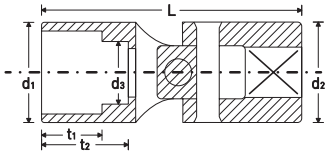
Product no.	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01541024	3/8	34	13.6	12.7	6.7	9.1	12.0	19
01541034	9/16	37.5	19	12.7	13.1	10.3	11.8	25

402a



Uniflex sockets

— bi-hex with AS-Drive profile
— 1/4" internal square drive
— HPQ® high performance steel, chrome-plated
— SAE AS 954-E / ASME B 107.1



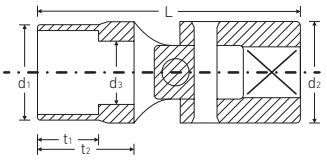
Product no.	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01540014	7/32	32	8.6	12.7	4.8	5.5	10	17
01540016	1/4	32	9.6	12.7	5.2	5.5	10	16
01540018	9/32	32	11	12.7	6.4	6.5	10	19
01540020	5/16	35	11.6	12.7	6.7	8	13	17
01540022	11/32	35	12.7	12.7	8	7.5	11.5	19
01540024	3/8	38	13.6	12.7	9	8.6	13.1	20
01540028	7/16	39.5	15.7	12.7	10.5	10.7	15	23
01540032	1/2	41.5	17.3	12.7	12	11.1	16.5	27

402aSP



Uniflex sockets

— for external Spline-Drive screws
— 1/4" internal square drive
— HPQ® high performance steel, chrome-plated
— MS-33787 / MIL-W-8982

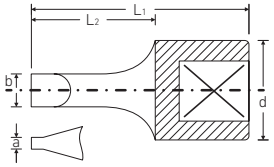


Product no.	Size	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
01542016	8	1/4	32	9.5	12.7	5.6	6.4	9.8	16
01542020	10	5/16	38	11.6	12.7	7.1	8	13	18

41K



Screwdriver sockets
— for slotted screws
— 1/4" internal square drive
— Chrome Alloy Steel, chrome-plated
— blades according to DIN 5264

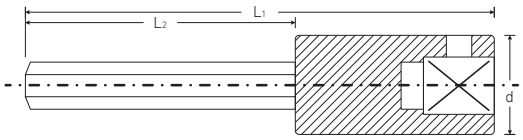


Product no.	a mm	b mm	L1 mm	L2 mm	∅ (d) mm	g
01280006	0.6	3.5	28	16	11.6	10
01280008	0.8	4	28	16	11.6	10
01280010	1	5.5	28	16	11.6	11
01280012	1.2	8	28	16	11.6	12

44



INHEX screwdriver sockets
— for hex socket head screws
— 1/4" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 7422

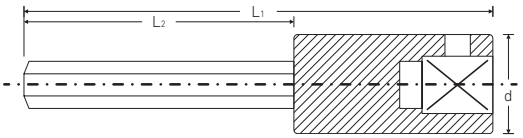


Product no.	mm	L1 mm	L2 mm	∅ (d) mm	g
01050025	2.5	55	30	10.7	18
01050003	3	55	30	10.7	20
01050004	4	55	30	10.7	20
01050005	5	55	30	10.7	25
01050006	6	55	30	11.6	30

44a



INHEX screwdriver sockets
— for hex socket head screws
— 1/4" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 7422

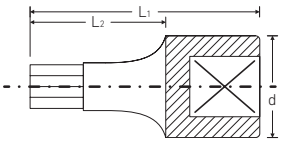


Product no.	"	L1 mm	L2 mm	∅ (d) mm	g
01450004	1/16	55	30	10.7	11
01450005	5/64	55	30	10.7	12
01450006	3/32	55	30	10.7	14
01450007	7/64	55	30	10.7	17
01450008	1/8	55	30	10.7	12
01450009	9/64	55	30	10.7	13
01450010	5/32	55	30	10.7	14
01450012	3/16	55	30	10.7	17
01450014	7/32	55	30	10.7	19
01450016	1/4	55	30	11.6	24

44K



INHEX screwdriver sockets
— short version
— for hex socket head screws
— 1/4" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 7422

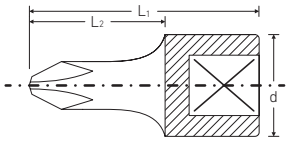


Product no.	mm	L1 mm	L2 mm	∅ (d) mm	g
01120003	3	28	16	11.6	10
01120004	4	28	16	11.6	10
01120005	5	28	16	11.6	10
01120006	6	28	16	11.6	10
01120008	8	28	16	11.6	15

44PH



Screwdriver sockets
— for PHILLIPS® screws
— 1/4" internal square drive
— Chrome Alloy Steel, chrome-plated
— tips according to DIN 5260

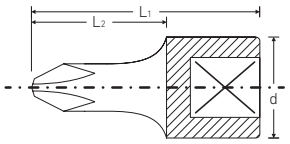


Product no.	Size	L1 mm	L2 mm	∅ (d) mm	g
01290001	PH1	28	16	11.6	12
01290002	PH2	28	16	11.6	11
01290003	PH3	28	16	11.6	12
01290004	PH4	28	16	11.6	14

44PZ



Screwdriver sockets
— for POZIDRIV® screws
— 1/4" internal square drive
— Chrome Alloy Steel, chrome-plated

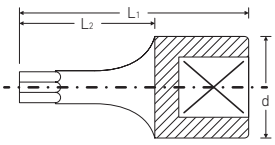


Product no.	Size	L1 mm	L2 mm	∅ (d) mm	g
01300001	PZ1	28	16	11.6	10
01300002	PZ2	28	16	11.6	11

44KTX



Screwdriver sockets
— for recessed TORX® screws
— 1/4" internal square drive
— Chrome Alloy Steel, chrome-plated

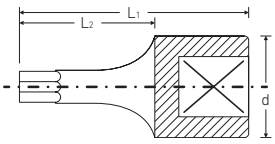


Product no.	Size	L1 mm	L2 mm	∅ (d) mm	g
01350008	T8	28	16	11.6	10
01350009	T9	28	16	11.6	10
01350010	T10	28	16	11.6	10
01350015	T15	28	16	11.6	10
01350020	T20	28	16	11.6	11
01350025	T25	28	16	11.6	11
01350027	T27	28	16	11.6	11
01350030	T30	28	16	11.6	12
01350040	T40	28	16	11.6	12

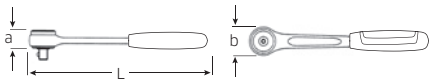
44KTXB



Screwdriver sockets
— for recessed TORX® screws
— with hole in drive tip (TORX® Tamper Resistant)
— 1/4" internal square drive
— Chrome Alloy Steel, chrome-plated



Product no.	Size	L1 mm	L2 mm	∅ (d) mm	g
01351008	T8	28	16	11.6	10
01351009	T9	28	16	11.6	10
01351010	T10	28	16	11.6	10
01351015	T15	28	16	11.6	10
01351020	T20	28	16	11.6	10
01351025	T25	28	16	11.6	11
01351027	T27	28	16	11.6	10
01351030	T30	28	16	11.6	11
01351040	T40	28	16	11.6	10



1/4" drive tools
Explanation of table headings

L = Overall length
a = Head height (excluding square drive)
b = Head width

411



Fine-tooth ratchet
— 1/4" external square drive
— reversible
— 60 teeth
— for working in tight spaces, with a working angle of just 6°
— with 2-component handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠	g
11231011	1/4	118	19.5	24	6 °	100

415-2K



Ratchet
— 1/4" external square drive
— reversible
— 22 teeth
— working angle 16.5°
— with 2-component handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠	g
11111010	1/4	117	13	22	16.5 °	80

415QR N



QuickRelease fine-tooth ratchet
— 1/4" external square drive
— reversible
— 80 teeth
— for working in tight spaces, with a working angle of just 4.5°
— with QuickRelease safety lock
— with 2-component handle
— FOD-preventive due to screwless design
— DBGM (German Federal Utility Model)
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠	g
11111020	1/4	117	10.7	22.6	4.5 °	79

415SG-QR N



QuickRelease fine-tooth ratchet
— 1/4" external square drive
— reversible
— 80 teeth
— for working in tight spaces, with a working angle of just 4.5°
— with QuickRelease safety lock
— with steel handle
— FOD-preventive due to screwless design
— DBGM (German Federal Utility Model)
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠	g
11111030	1/4	117	10.7	22.6	4.5 °	86



415QRL N



QuickRelease fine-tooth ratchet

— long version
— 1/4" external square drive
— reversible
— 80 teeth
— for working in tight spaces, with a working angle of just 4.5°
— with QuickRelease safety lock
— with 2-component handle
— FOD-preventive due to screwless design
— DBGM (German Federal Utility Model)
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠	g
11111040	1/4	153	10.7	22.6	4.5 °	94

418QR



Mini QuickRelease fine-tooth ratchet

— short version
— 1/4" external square drive
— reversible
— 80 teeth
— for working in tight spaces, with a working angle of just 4.5°
— with QuickRelease safety lock
— with steel handle
— FOD-preventive due to screwless design
— DBGM (German Federal Utility Model)
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠	g
11111050	1/4	90	12.2	22.5	4.5 °	74

416QR



QuickRelease fine-tooth flexible ratchet

— 1/4" external square drive
— reversible
— 80 teeth
— for working in tight spaces, with a working angle of just 4.5°
— with QuickRelease safety lock
— handle can be swivelled up and down by approximately 90°, engages and locks in the following positions: straight, 30° up, 60° up, 30° down
— easy release of the lock at the push of a button
— with 2-component handle
— FOD-preventive due to screwless design
— DBGM (German Federal Utility Model)
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠	g
11261010	1/4	170	12	22.5	4.5 °	170

4110

Ratchet spare parts set
Contains 7-pieces:
1 pinion; 1 locking part; 1 switching disc; 1 spring; 3 screws

Product no.	for model	■ "	Content pcs.	g
19200001	411	1/4	7	47

4150

Ratchet spare parts set
Contains 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

Product no.	for model	■ "	Content pcs.	g
19010000	415	1/4	9	26

4150QR

Ratchet spare parts set
Contains 11-pieces:
1 pinion; 1 locking disc; 2 gear lever with pin; 1 ball; 2 compression springs; 2 retaining screws M 1.7 x 8; 2 cover plates

Product no.	for model	■ "	Content pcs.	g
19011020	415QR, 725QR/4	1/4	11	24

4150QR N

Ratchet spare parts set
Contains 9-pieces:
1 pinion; 1 locking disc; 1 switching lever; 1 pin; 1 ball; 1 compression spring; 2 circlips; 1 cover plate

Product no.	for model	■ "	Content pcs.	g
19012020	415QR N, 415QRL N, 415SG-QR N, 416QR, 418QR	1/4	9	21

4151B

Ratchet spare parts set
Contains 9-pieces:
1 pinion; 1 locking disc; 1 switching lever; 1 pin; 1 ball; 1 compression spring; 2 circlips; 1 cover plate

Product no.	for model	■ "	Content pcs.	g
19010012	415B	1/4	9	22

400N



Drive handle
— with 2-component handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	g
11050010	1/4	150	70

400QR



QuickRelease drive handle
— with QuickRelease safety lock
— with ball locking function
— with 2-component handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	g
11051010	1/4	150	80

400 DRALL®



Drive handle
— with 1/4" internal square drive in end of handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	g
11050011	1/4	150	105

401



Flexible drive handle
— only for clockwise tightening
— max. torque: 5 N·m
— with 3-component handle
— Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	g
11053002	1/4	240	130

403



Flexible handle
— with 2-component handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	g
11061010	1/4	154.5	70

404



T-handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	g
11070000	1/4	116	38

404QR



QuickRelease T-handle
— with QuickRelease safety lock
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— patented
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	g
11071000	1/4	116	50

404/1QR



QuickRelease T-handle
— with QuickRelease safety lock
— with **recessed** button
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— DIN 3123 / ISO 3316

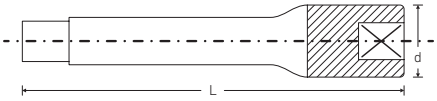
Product no.	■ "	L mm	g
11071500	1/4	116	50

413QR



QuickRelease speeder brace
— with QuickRelease safety lock
— with ball locking function
— with steel handle
— separate palm piece can be attached for greater axial force transmission
— working radius: 70 mm
— Chrome Alloy Steel, chrome-plated
— patented

Product no.	■ "	L mm	g
11100005	1/4	440	354



1/4" extensions
Explanation of table headings

L = Overall length
d = Diameter of head

405



Extensions
— Chrome Alloy Steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	Size	■ "	L mm	∅ (d) mm	g
11010001	2	1/4	54	11.6	29
11010006	4	1/4	100	11.6	46
11010002	6	1/4	150	11.6	65
11010010	10	1/4	254	11.6	115
11010014	14	1/4	356	11.6	155

405QR



QuickRelease extensions
— with QuickRelease safety lock
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	Size	■ "	L mm	∅ (d) mm	g
11011001	2	1/4	54	11.6	28
11011006	4	1/4	102	11.6	49
11011002	6	1/4	150	11.6	65
11011013	13	1/4	330	11.6	145
11011005	14	1/4	356	11.6	150

405W



Wobble-Drive extensions
— swivel angle 8° to each side
— max. torque: 40 N·m
— Chrome Alloy Steel, chrome-plated

Product no.	Size	■ "	L mm	∅ (d) mm	g
11010011	2	1/4	54	11.6	28
11010012	6	1/4	150	11.6	55
11010016	4	1/4	100	11.6	45
11010020	10	1/4	254	11.6	110
11010024	14	1/4	356	11.6	155

406



Flexible extension
— only for clockwise tightening
— max. torque: 5 N·m
— Chrome Alloy Steel, chrome-plated

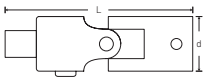
Product no.	■ "	L mm	∅ (d) mm	g
11040000	1/4	152	11.6	61

408QR



QuickRelease extensions
— with QuickRelease safety lock
— with **recessed** button
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	Size	■ "	L mm	∅ (d) mm	g
11011502	2	1/4	55	11.6	20
11011504	4	1/4	99	11.6	40
11011506	6	1/4	150	11.6	70
11011513	13	1/4	330	11.6	140
11011514	14	1/4	355	11.6	150



1/4" universal joints
Explanation of table headings

L = Overall length
d = Diameter of head

407



Universal joint
— Chrome Alloy Steel, chrome-plated
— patented
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
11020000	1/4	37	12.8	23

407QR



QuickRelease universal joint
— with QuickRelease safety lock
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— patented
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
11021000	1/4	45	13	35

407/1QR



QuickRelease universal joint
— with QuickRelease safety lock
— with **recessed** button
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— patented
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	g
11021500	1/4	45	30

409



Square drive adaptor
— 1/4 to 3/8"
— HPQ® high performance steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
11030002	3/8	25	12.8	18

409M



Square drive adaptor
— $^{1}/_{4}$ to $^{3}/_{8}$"
— Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	∅ (d) mm	g
11030010	$^{3}/_{8}$	13	28	14

410



Square drive adaptor
— $^{1}/_{4}$ to $^{1}/_{2}$"
— HPQ® high performance steel, chrome-plated

Product no.	■ "	L mm	∅ (d) mm	g
11030003	$^{1}/_{2}$	28	16.5	36

417/1



Locking adaptor
— with hex L-Key $^{3}/_{32}$" No. 10760a

Product no.	■ "	L mm	∅ (d) mm	g
96112701	$^{1}/_{4}$	42	13	23

TOOLS THAT
... inspire

40a/40aD/16/2



HI-LOK™ socket set
— for HI-LOK™ bolts
— in a sturdy, stackable ABS plastic case with TCS inlay
Contains 18-pieces:
1 HI-LOK™ fine-tooth ratchet $^{1}/_{4}$" **Nr. 415SGH N**: L. 117 mm
1 HI-LOK™ extension $^{1}/_{4}$" **No. 414H:** L. 54 mm
5 sockets with bi-hex $^{1}/_{4}$" **No. 40aD**: $^{7}/_{16}$; $^{3}/_{8}$; $^{11}/_{32}$; $^{5}/_{16}$; $^{1}/_{4}$"
5 sockets with hex $^{1}/_{4}$" **No. 40a**: $^{7}/_{16}$; $^{3}/_{8}$; $^{11}/_{32}$; $^{5}/_{16}$; $^{1}/_{4}$"
3 L-Keys hex **No. 10759a/1**: $^{3}/_{32}$; $^{5}/_{64}$; $^{1}/_{16}$"; L. 50 mm
3 L-Keys hex **No. 10759a/2**: $^{3}/_{32}$; $^{5}/_{64}$; $^{1}/_{16}$"; L. 100 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96016304	$^{1}/_{4}$	230	130	60	18	685

415SGH N



HI-LOK™ fine-tooth ratchet
— $^{1}/_{4}$" external square drive
— reversible
— 80 teeth
— for working in tight spaces, with a working angle of just 4.5°
— with steel handle
— with hole drilled through the square drive, and ball locking of the sockets
— for working on HI-LOK™ bolts in the aerospace industry
— FOD-preventive due to screwless design
— Chrome Alloy Steel, chrome-plated
— patented

Product no.	■ "	L mm	a mm	b mm	∠	g
11110010	$^{1}/_{4}$	117	10.7	22.6	4.5 °	88

4152

Ratchet spare parts set
Contains 9-pieces:
1 pinion; 1 locking disc; 1 switching lever; 1 pin; 1 ball; 1 compression spring; 2 circlips; 1 cover plate

Product no.	for model	■ "	Content pcs.	g
19010013	415SGH N	$^{1}/_{4}$	9	21

414H



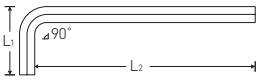
HI-LOK™ extensions
— with locking system like ratchet No. 415SGH N
— Chrome Alloy Steel, chrome-plated

Product no.	Size	■ "	L mm	∅ (d) mm	g
11240011	2	1/4	54	13	34
11240012	4	1/4	102	13	49
11240013	6	1/4	152	13	66

10759



HI-LOK™ L-Keys
— for **metric** hex socket head screws
— with hex tip, for use with ratchet No. 415SGH N
— with round shaft for locking the retaining ball

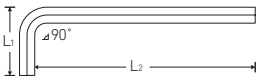


Product no.	Size	◉ mm	L_1 mm	L_2 mm	g
43062002	1	2	50	100	5
43064002	2	2	100	100	8

10759a



HI-LOK™ L-Keys
— for **inch** hex socket head screws
— with hex tip, for use with ratchet No. 415SGH N
— with round shaft for locking the retaining ball



Product no.	Size	◉ "	L_1 mm	L_2 mm	g
43560004	1	1/16	50	50	5
43560005	1	5/64	50	50	5
43560006	1	3/32	50	50	5
43564004	2	1/16	50	100	8
43564005	2	5/64	50	100	8
43564006	2	3/32	50	100	8

44KTX/9



Screwdriver socket set
— for recessed TORX® screws
— Chrome Alloy Steel, chrome-plated
— in a carton
Contains 9-pieces:
9 screwdriver sockets TORX® 1/4" **No. 44KTX**: T8; T9; T10; T15; T20; T25; T27; T30; T40

Product no.	Content pcs.	g
96017709	9	110

40D/10-12916



Socket set on clip rail
— bi-hex with AS-Drive profile
— secure fixing to plastic clips with ball locking function
— can be mounted on a wall or perforated wall/panel
— HPQ® high performance steel, chrome-plated
— DIN 3124 / ISO 2725-1 / DIN EN 3709 / ASME B 107.5M
Contains 10-pieces:
10 sockets with bi-hex 1/4" **No. 40D**: 5; 5.5; 6; 7; 8; 10; 11; 12; 13; 14 mm
+ socket clip rail **No. 12916/10**

Product no.	Content pcs.	g
96051010	10	200



40aDL/10-12916



Socket set on clip rail
— bi-hex with AS-Drive profile
— secure fixing to plastic clips with ball locking function
— can be mounted on a wall or perforated wall/panel
— HPQ® high performance steel, chrome-plated
— ASME B 107.1 / Fed. Spec. GGG-W-641 / SAE AS 954-E

Contains 10-pieces:
10 sockets long, with bi-hex 1/4" **No. 40aDL**: 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
+ socket clip rail **No. 12916/10**

Product no.	Content pcs.	g
96016410	10	350

40aD/10-12916



Socket set on clip rail
— bi-hex with AS-Drive profile
— secure fixing to plastic clips with ball locking function
— can be mounted on a wall or perforated wall/panel
— HPQ® high performance steel, chrome-plated
— ASME B 107.1 / Fed. Spec. GGG-W-641 / SAE AS 954-E

Contains 10-pieces:
10 sockets with bi-hex 1/4" **No. 40aD**: 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"
+ socket clip rail **No. 12916/10**

Product no.	Content pcs.	g
96015310	10	200

12916/10



Socket clip rail
— for organised and safe storage of sockets and accessories
— secure fixing to plastic clips with ball locking function
— can be mounted on a wall or perforated wall/panel

Product no.	■ "	L mm	Retaining clips	g
80400003	1/4	255	10	46

12916/12917/12918



Socket clip rail set
— for organised and safe storage of sockets and accessories
— secure fixing to plastic clips with ball locking function
— attachments can be combined with each other
— can be mounted on a wall or perforated wall/panel

Contains 3-pieces:
1 socket clip rail 1/4" (6.3 mm)
1 socket clip rail 3/8" (10 mm)
1 socket clip rail 1/2" (12.5 mm)

Product no.	L mm	Retaining clips	Content pcs.	g
96003010	315	30	3	190

40/9/4

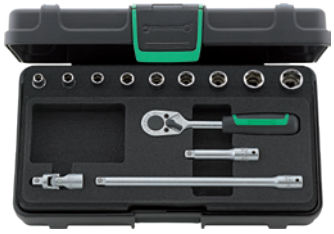


Socket set
— in a sturdy, stackable ABS plastic box

Contains 13-pieces:
9 sockets with hex 1/4" **No. 40**: 4; 5; 5.5; 6; 7; 8; 10; 11; 13 mm
1 ratchet 1/4" **No. 415-2K**: L. 117 mm
2 extensions 1/4" **No. 405**: L. 54; 150 mm
1 universal joint 1/4" **No. 407**: L. 37 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96011119	1/4	230	130	60	13	696

40a/9/4



Socket set

— in a sturdy, stackable ABS plastic box

Contains 13-pieces:

9 sockets with hex $^{1}/_{4}$" **No. 40a**: $^{3}/_{16}$; $^{7}/_{32}$; $^{1}/_{4}$; $^{9}/_{32}$; $^{5}/_{16}$; $^{11}/_{32}$; $^{3}/_{8}$; $^{7}/_{16}$; $^{1}/_{2}$"

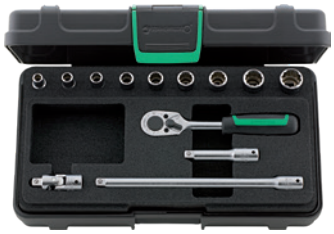
1 ratchet $^{1}/_{4}$" **No. 415-2K**: L. 117 mm

2 extensions $^{1}/_{4}$" **No. 405**: L. 54; 150 mm

1 universal joint $^{1}/_{4}$" **No. 407**: L. 37 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96015107	$^{1}/_{4}$	230	130	60	13	702

40aD/9/4



Socket set

— in a sturdy, stackable ABS plastic box

Contains 13-pieces:

9 sockets with bi-hex $^{1}/_{4}$" **No. 40aD**: $^{3}/_{16}$; $^{7}/_{32}$; $^{1}/_{4}$; $^{9}/_{32}$; $^{5}/_{16}$; $^{11}/_{32}$; $^{3}/_{8}$; $^{7}/_{16}$; $^{1}/_{2}$"

1 ratchet $^{1}/_{4}$" **No. 415-2K**: L. 117 mm

2 extensions $^{1}/_{4}$" **No. 405**: L. 54; 150 mm

1 universal joint $^{1}/_{4}$" **No. 407**: L. 37 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96016302	$^{1}/_{4}$	230	130	60	13	700

40aD/12/7QR



QuickRelease socket set

— in a sturdy, stackable ABS plastic box

Contains 19-pieces:

11 sockets with bi-hex $^{1}/_{4}$" **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 socket with hex $^{1}/_{4}$" **No. 40a**: $^{1}/_{8}$"

1 QuickRelease fine-tooth ratchet $^{1}/_{4}$" **No. 415SG-QR N**: L. 117 mm

3 QuickRelease extensions $^{1}/_{4}$" **No. 405QR**: L. 54 (2x); 150 mm

1 QuickRelease universal joint $^{1}/_{4}$" **No. 407QR**: L. 45 mm

1 QuickRelease drive handle $^{1}/_{4}$" **No. 400QR**: L. 150 mm

1 bit holder $^{1}/_{4}$" **No. 412**: L. 25 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96015208	$^{1}/_{4}$	230	130	60	19	872

40/13/6



Socket set

— in a sturdy, stackable ABS plastic box

Contains 19-pieces:

13 sockets with hex $^{1}/_{4}$" **No. 40**: 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm

1 ratchet $^{1}/_{4}$" **No. 415-2K**: L. 117 mm

2 extensions $^{1}/_{4}$" **No. 405**: L. 54; 150 mm

1 universal joint $^{1}/_{4}$" **No. 407**: L. 37 mm

1 drive handle $^{1}/_{4}$" **No. 400N**: L. 150 mm

1 T-handle $^{1}/_{4}$" **No. 404**: L. 116 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96011124	$^{1}/_{4}$	230	130	60	19	850

40/13/6QR



QuickRelease socket set

— in a sturdy, stackable ABS plastic box

Contains 19-pieces:

13 sockets with hex 1/4" **No. 40**: 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm

1 QuickRelease fine-tooth ratchet 1/4" **No. 415QR N**: L. 117 mm

2 QuickRelease extensions 1/4" **No. 405QR**: L. 54; 150 mm

1 QuickRelease universal joint 1/4" **No. 407QR**: L. 37 mm

1 QuickRelease drive handle 1/4" **No. 400QR**: L. 150 mm

1 QuickRelease T-handle 1/4" **No. 404QR**: L. 116 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96011180	1/4	230	130	60	19	876

40/20/4QR SCI



QuickRelease socket set

— in soft case with hard foam inlay

Contains 24-pieces:

10 sockets with hex 1/4" **No. 40**: 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm

2 bits PHILLIPS® 1/4" **No. PH 1221, PH 1222**: PH1; PH2

3 bits hex 1/4" **No. 1301-1303**: 4; 5; 6 mm

5 bits TORX® 1/4" **No. 1414-1417, 1419**: T10; T15; T20; T25; T30

1 QuickRelease fine-tooth ratchet 1/4" **No. 415QR N**: L. 117 mm

2 QuickRelease extensions 1/4" **No. 405QR**: L. 54; 150 mm

1 bit holder 1/4" **No. 412**: L. 25 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96010127	1/4	235	100	50	24	605

40/23/6



Socket set

— in a sturdy, stackable ABS plastic box

Contains 29-pieces:

11 sockets with hex 1/4" **No. 40**: 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm

3 screwdriver sockets slotted 1/4" **No. 41K**: 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm

5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm

4 screwdriver sockets PHILLIPS® 1/4" **No. 44PH**: PH1; PH2; PH3; PH4

1 ratchet 1/4" **No. 415-2K**: L. 117 mm

2 extensions 1/4" **No. 405**: L. 54; 150 mm

1 universal joint 1/4" **No. 407**: L. 37 mm

1 drive handle 1/4" **No. 400N**: L. 150 mm

1 T-handle 1/4" **No. 404**: L. 116 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96011136	1/4	230	130	60	29	998

40/23/6QR



QuickRelease socket set

— in a sturdy, stackable ABS plastic box

Contains 29-pieces:

11 sockets with hex 1/4" **No. 40**: 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm

3 screwdriver sockets slotted 1/4" **No. 41K**: 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm

5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm

4 screwdriver sockets PHILLIPS® 1/4" **No. 44PH**: PH1; PH2; PH3; PH4

1 QuickRelease fine-tooth ratchet 1/4" **No. 415QR N**: L. 117 mm

2 QuickRelease extensions 1/4" **No. 405QR**: L. 54; 150 mm

1 QuickRelease universal joint 1/4" **No. 407QR**: L. 37 mm

1 QuickRelease drive handle 1/4" **No. 400QR**: L. 150 mm

1 QuickRelease T-handle 1/4" **No. 404QR**: L. 116 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96011137	1/4	230	130	60	29	998

40/23/7



Socket set
— in a sturdy, stackable ABS plastic box
Contains 30-pieces:
12 sockets with hex 1/4" **No. 40**: 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm
4 screwdriver sockets INHEX 1/4" **No. 44**: 3; 4; 5; 6 mm
3 bits PHILLIPS® 1/4" **No. PH 1221-1223**: PH1; PH2; PH3
4 bits slotted 1/4" **No. 1162, 1164, 1166, 1168**: 0.6 x 3.5; 0.8 x 4; 1.0 x 5.5; 1.6 x 8 mm
1 ratchet 1/4" **No. 415-2K**: L. 117 mm
2 extensions 1/4" **No. 405**: L. 54; 150 mm
1 universal joint 1/4" **No. 407**: L. 37 mm
1 drive handle 1/4" **No. 400N**: L. 150 mm
1 T-handle 1/4" **No. 404**: L. 116 mm
1 bit holder 1/4" **No. 412**: L. 25 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96011134	1/4	325	135	60	30	1138

40/24/6QR



QuickRelease socket set
— in a sturdy, stackable ABS plastic box
Contains 30-pieces:
12 sockets with hex 1/4" **No. 40**: 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
3 screwdriver sockets slotted 1/4" **No. 41K**: 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm
5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm
2 screwdriver sockets PHILLIPS® 1/4" **No. 44PH**: PH1; PH2
2 screwdriver sockets POZIDRIV® 1/4" **No. 44PZ**: PZ1; PZ2
1 QuickRelease fine-tooth ratchet 1/4" **No. 415QR N**: L. 117 mm
2 QuickRelease extensions 1/4" **No. 405QR**: L. 54; 150 mm
1 QuickRelease universal joint 1/4" **No. 407QR**: L. 37 mm
1 QuickRelease drive handle 1/4" **No. 400QR**: L. 150 mm
1 QuickRelease T-handle 1/4" **No. 404QR**: L. 116 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96011182	1/4	230	130	60	30	1018

40/24/6



Socket set
— in a sturdy, stackable ABS plastic box
Contains 30-pieces:
12 sockets with hex 1/4" **No. 40**: 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
3 screwdriver sockets slotted 1/4" **No. 41K**: 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm
5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm
2 screwdriver sockets PHILLIPS® 1/4" **No. 44PH**: PH1; PH2
2 screwdriver sockets POZIDRIV® 1/4" **No. 44PZ**: PZ1; PZ2
1 ratchet 1/4" **No. 415-2K**: L. 117 mm
2 extensions 1/4" **No. 405**: L. 54; 150 mm
1 universal joint 1/4" **No. 407**: L. 37 mm
1 drive handle 1/4" **No. 400N**: L. 150 mm
1 T-handle 1/4" **No. 404**: L. 116 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96011138	1/4	230	130	60	30	998

MADE IN CRONENBERG
MADE IN GERMANY

For more than 160 years, the STAHLWILLE brand has been synonymous with premium tools. From its foundation by Eduard Wille to the present day, our goal has always been the same: to manufacture tools that set the standard and that are 'Made in Germany'.

40ma/25/8



Socket set

— in a sturdy, stackable ABS plastic box

Contains 33-pieces:

25 sockets with hex 1/4"

No. 40: 3.2; 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm;

No. 40a: 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"

1 ratchet 1/4" **No. 415-2K**: L. 117 mm

2 extensions 1/4" **No. 405**: L. 54; 150 mm

1 flexible extension 1/4" **No. 406**: L. 152 mm

1 universal joint 1/4" **No. 407**: L. 37 mm

1 drive handle 1/4" **No. 400N**: L. 150 mm

1 flexible handle 1/4" **No. 403**: L. 154.5 mm

1 T-handle 1/4" **No. 404**: L. 116 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96011162	1/4	325	135	60	33	1316

40ma/25/8QR



QuickRelease socket set

— in a sturdy, stackable ABS plastic box

Contains 33-pieces:

25 sockets with hex 1/4"

No. 40: 3.2; 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm;

No. 40a: 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"

1 QuickRelease fine-tooth ratchet 1/4" **No. 415QR N**: L. 117 mm

2 QuickRelease extensions 1/4" **No. 405QR**: L. 54; 150 mm

1 flexible extension 1/4" **No. 406**: L. 152 mm

1 QuickRelease universal joint 1/4" **No. 407QR**: L. 37 mm

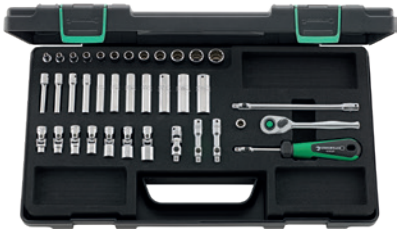
1 QuickRelease drive handle 1/4" **No. 400QR**: L. 150 mm

1 flexible handle 1/4" **No. 403**: L. 154.5 mm

1 T-handle 1/4" **No. 404**: L. 116 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96010107	1/4	325	135	55	33	1324

40aD/30/7QR



QuickRelease socket set

— in a sturdy, stackable ABS plastic box

Contains 37-pieces:

11 sockets with bi-hex 1/4" **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 long, with bi-hex 1/4" **No. 40aDL**: 5/32; 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"

1 socket with hex 1/4" **No. 40a**: 1/8"

7 flex sockets with bi-hex 1/4" **No. 402a**: 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2"

1 QuickRelease fine-tooth ratchet 1/4" **No. 415SG-QR**: L. 117 mm

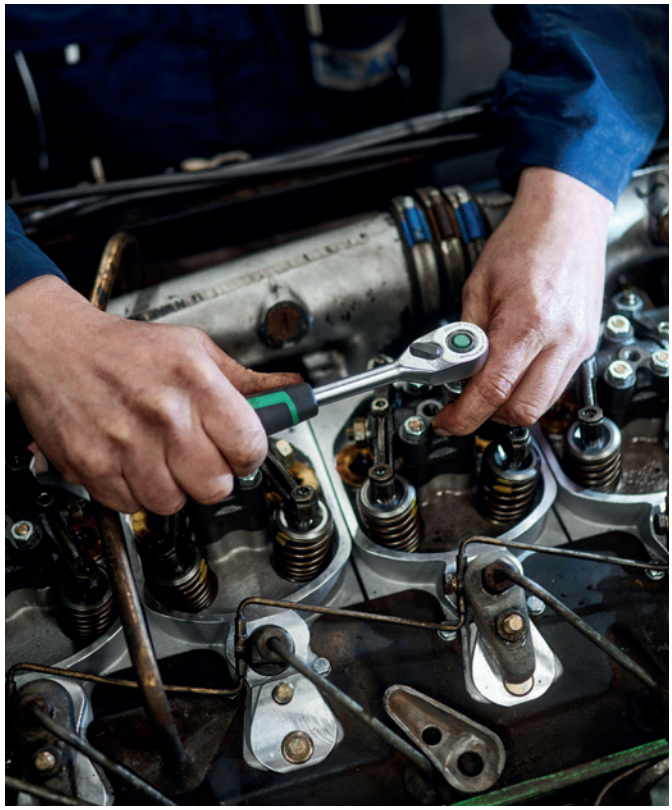
3 QuickRelease extensions 1/4" **No. 405**: L. 54 (2x); 150 mm

1 QuickRelease universal joint 1/4" **No. 407QR**: L. 37 mm

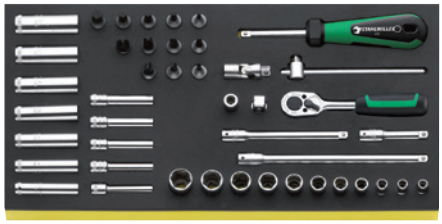
1 QuickRelease drive handle 1/4" **No. 400QR**: L. 150 mm

1 bit holder 1/4" **No. 412**: L. 25 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96015205	1/4	420	230	60	37	1920



TCS 40/35/9



Socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 44-pieces:
11 sockets with hex 1/4" **No. 40**: 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
12 sockets long, with hex 1/4" **No. 40L**: 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm
3 screwdriver sockets slotted 1/4" **No. 41K**: 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm
5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm
4 screwdriver sockets PHILLIPS® 1/4" **No. 44PH**: PH1; PH2; PH3; PH4
1 drive handle 1/4" **No. 400N**: L. 150 mm
1 T-handle 1/4" **No. 404**: L. 116 mm
3 extensions 1/4" **No. 405**: L. 54; 100; 150 mm
1 universal joint 1/4" **No. 407**: L. 38 mm
1 square drive adaptor **No. 409**: 1/4 to 3/8"
1 bit holder 1/4" **No. 412**: L. 25 mm
1 ratchet 1/4" **No. 415-2K**: L. 117 mm

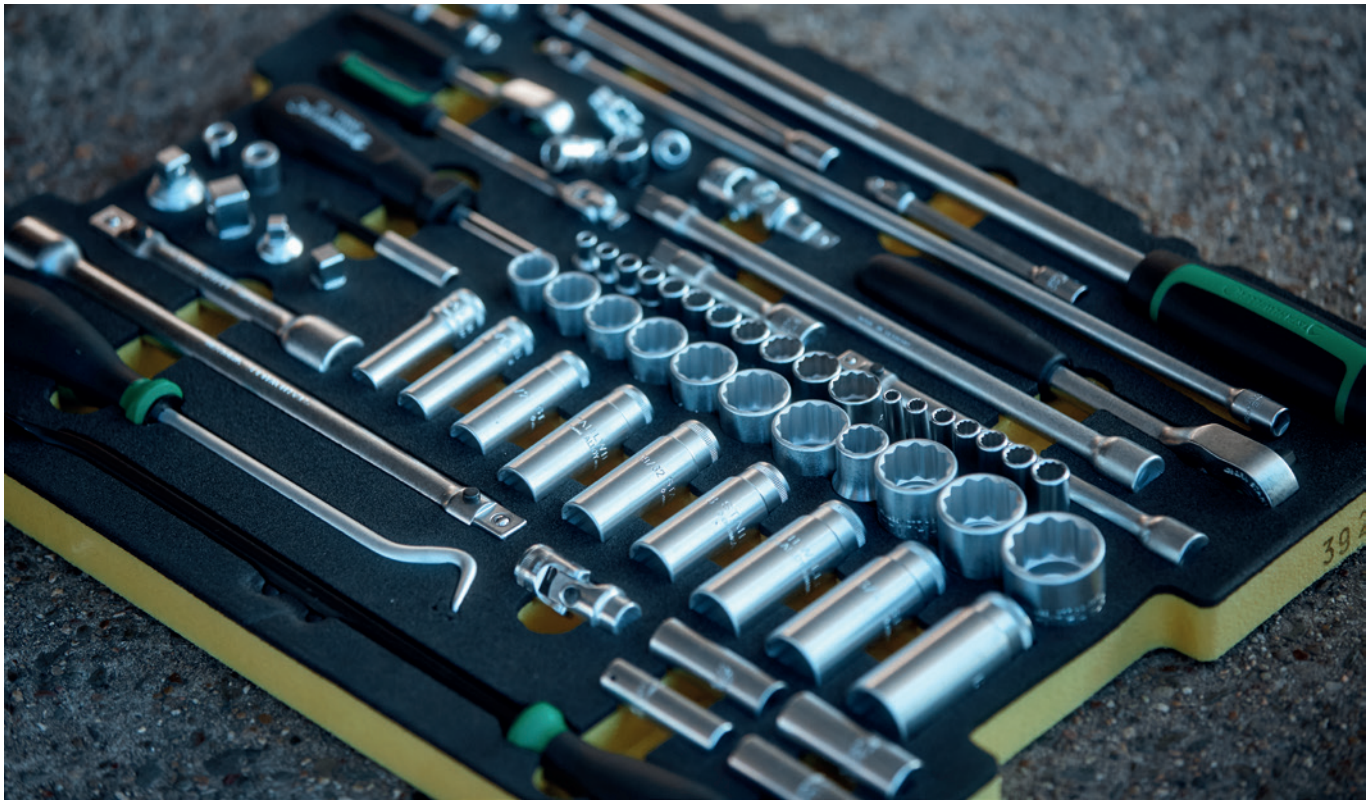
Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830601	1/4	350	175	40	1/3	44	1045

TCS 40/35/9QR



QuickRelease socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 44-pieces:
11 sockets with hex 1/4" **No. 40**: 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
12 sockets long, with hex 1/4" **No. 40L**: 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm
3 screwdriver sockets slotted 1/4" **No. 41K**: 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm
5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm
4 screwdriver sockets PHILLIPS® 1/4" **No. 44PH**: PH1; PH2; PH3; PH4
1 QuickRelease drive handle 1/4" **No. 400QR**: L. 150 mm
1 QuickRelease T-handle 1/4" **No. 404QR**: L. 116 mm
3 QuickRelease extensions 1/4" **No. 405QR**: L. 54; 100: 150 mm
1 QuickRelease universal joint 1/4" **No. 407QR**: L. 38 mm
1 square drive adaptor **No. 409**: 1/4 to 3/8"
1 bit holder 1/4" **No. 412**: L. 25 mm
1 QuickRelease fine-tooth ratchet 1/4" **No. 415QR N**: L. 117 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830366	1/4	350	175	40	1/3	44	1045



40D/40TX/44KTX/32/6QR



QuickRelease socket set

— in a sturdy, stackable ABS plastic box

Contains 38-pieces:

10 sockets with bi-hex 1/4" **No. 40D**: 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm

6 sockets TORX® 1/4" **No. 40TX**: E4, E5; E6; E7; E8; E10

5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5, 6; 8 mm

9 screwdriver sockets TORX® 1/4" **No. 44KTX**: T8; T9; T10; T15; T20; T25; T27; T30; T40

2 screwdriver sockets PHILLIPS® 1/4" **No. 44PH**: PH1; PH2

1 QuickRelease fine-tooth ratchet 1/4" **No. 415QR N**: L. 117 mm

1 QuickRelease drive handle 1/4" **No. 400QR**: L. 150 mm

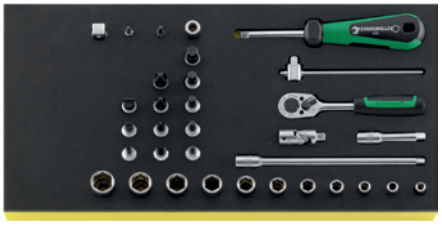
1 QuickRelease T-handle with sliding head 1/4" **No. 404QR**: L. 116 mm

2 QuickRelease extensions 1/4" **No. 405QR**: L. 54; 150 mm

1 QuickRelease universal joint 1/4" **No. 407QR**: L. 45 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96010120	1/4	230	130	60	38	1070

TCS 40/41/44/8



Socket set

— safely integrated in the modular Tool Control System (TCS)

Contains 33-pieces:

11 sockets with hex 1/4" **No. 40**: 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm

3 screwdriver sockets slotted 1/4" **No. 41K**: 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm

5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm

4 screwdriver sockets PHILLIPS® 1/4" **No. 44PH**: PH1; PH2; PH3; PH4

2 bits POZIDRIV® 1/4" **No. PZ 1221; PZ 1222**: PZ1; PZ2

1 drive handle 1/4" **No. 400N**: L. 150 mm

1 T-handle 1/4" **No. 404**: L. 116 mm

2 extensions 1/4" **No. 405**: L. 54; 150 mm

1 universal joint 1/4" **No. 407**: L. 38 mm

1 square drive adaptor **No. 409**: 1/4 to 3/8"

1 bit holder 1/4" **No. 412**: L. 25 mm

1 ratchet 1/4" **No. 415-2K**: L. 117 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830217	1/4	350	175	45	1/3	33	803

TOOLS THAT
... inspire

86TX



Socket set

— in a sturdy, stackable ABS plastic box

Contains 63-pieces:

9 sockets with hex 1/4" **No. 40**: 4; 5; 5.5; 6; 7; 8; 9; 10; 11 mm
10 sockets with hex 1/2" **No. 52**: 13; 16; 17; 18; 19; 21; 22; 24; 27; 30 mm
5 sockets TORX® 1/4" **No. 40TX**: E4; E5; E6; E7; E8
7 sockets TORX® 1/2" **No. 50TX**: E10; E12; E14; E16; E18; E20; E24
3 screwdriver sockets INHEX 1/4" **No. 44**: 3; 4; 5 mm
5 screwdriver sockets INHEX 1/2" **No. 54**: 6; 8; 10; 12; 14 mm
6 screwdriver sockets TORX® 1/4" **No. 44KTX**: T8; T9; T10; T15; T20; T25
7 screwdriver sockets TORX® 1/2" **No. 54TX**: T27; T30; T40; T45; T50; T55; T60
1 ratchet 1/4" **No. 415-2K**: L. 117 mm
1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm
2 extensions 1/4" **No. 405**: L. 54; 150 mm
2 extensions 1/2" **No. 509**: L. 130; 255 mm
1 universal joint 1/4" **No. 407**: L. 37 mm
1 universal joint 1/2" **No. 510**: L. 71 mm
1 drive handle **No. 400N**: L. 150 mm
1 T-handle 1/4" **No. 404**: L. 116 mm
1 T-handle 1/2" **No. 506**: L. 300 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96013702	1/4, 1/2	483	289	83	63	6500



88TX



Socket set

— in a sturdy, stackable ABS plastic box

Contains 36-pieces:

10 sockets with hex 1/4" **No. 40**: 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm
6 sockets TORX® 1/4" **No. 40TX**: E4; E5; E6; E7; E8; E10
5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm
9 screwdriver sockets TORX® 1/4" **No. 44KTX**: T8; T9; T10; T15; T20; T25; T27; T30; T40
1 ratchet 1/4" **No. 415-2K**: L. 117 mm
2 extensions 1/4" **No. 405**: L. 54; 150 mm
1 universal joint 1/4" **No. 407**: L. 37 mm
1 drive handle 1/4" **No. 400N**: L. 150 mm
1 T-handle 1/4" **No. 404**: L. 116 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
98819801	1/4	325	135	60	36	1190

89TX



Socket set

— in a sturdy, stackable ABS plastic box

Contains 34-pieces:

3 sockets TORX® 1/4" **No. 40TX**: E4; E5; E6
2 screwdriver sockets TORX® 1/4" **No. 44KTX**: T8; T9
4 sockets TORX® 3/8" **No. 45TX**: E7; E8; E10; E12
5 screwdriver sockets TORX® 3/8" **No. 49TX**: T10; T15; T20; T25; T27
6 sockets TORX® 1/2" **No. 50TX**: E11; E14; E16; E18; E20; E24
6 screwdriver sockets TORX® 1/2" **No. 54TX**: T30; T40; T45; T50; T55; T60
7 bits TORX®, with hole **No. 1440-1446**: T10; T15; T20; T25; T27; T30; T40
1 bit holder 1/4" **No. 442**: L. 32 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
98811908	1/4, 3/8, 1/2	417	230	60	34	2420

40/44/17/5



Socket set
— in a sturdy, stackable ABS plastic box
Contains 22-pieces:
13 sockets with hex 1/4" **No. 40**: 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm
4 screwdriver sockets INHEX 1/4" **No. 44**: 3; 4; 5; 6 mm
1 ratchet 1/4" **No. 415-2K**: L. 117 mm
1 extension 1/4" **No. 405**: L. 150 mm
1 universal joint 1/4" **No. 407**: L. 37 mm
1 drive handle 1/4" **No. 400N**: L. 150 mm
1 T-handle 1/4" **No. 404**: L. 116 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96011113	1/4	230	130	60	22	896

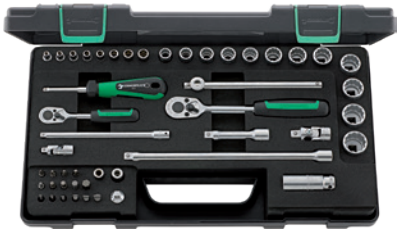
40/44/17/5QR



QuickRelease socket set
— in a sturdy, stackable ABS plastic box
Contains 22-pieces:
13 sockets with hex 1/4" **No. 40**: 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm
4 screwdriver sockets INHEX 1/4" **No. 44**: 3; 4; 5; 6 mm
1 QuickRelease fine-tooth ratchet 1/4" **No. 415QR N**: L. 117 mm
1 QuickRelease extension 1/4" **No. 405QR**: L. 150 mm
1 QuickRelease universal joint 1/4" **No. 407QR**: L. 45 mm
1 QuickRelease drive handle 1/4" **No. 400QR**: L. 150 mm
1 QuickRelease T-handle 1/4" **No. 404QR**: L. 116 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96011181	1/4	230	130	60	22	914

40/45/36/12



Socket set
— in a sturdy, stackable ABS plastic box
Contains 48-pieces:
12 sockets with bi-hex 3/8" **No. 45**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22 mm
8 sockets with hex 1/4" **No. 40**: 4; 4.5; 5; 5.5; 6; 7; 8; 9 mm
1 socket long, with bi-hex and rubber insert 3/8" **No. 4600**: 16 mm-5/8"
3 bits PHILLIPS® 1/4" **No. PH 1221-1223**: PH1; PH2; PH3
1 bit POZIDRIV® 1/4" **No. PZ 1222**: PZ2
6 bits slotted 1/4" **1160, 1162, 1164, 1166, 1166/1, 1168**: 0.5 x 3; 0.6 x 3.5; 0.8 x 4; 1 x 5.5; 1.2 x 6.5; 1.6 x 8 mm
5 bits hex 1/4" **1300-1304**: 3; 4; 5; 6; 8 mm
1 ratchet 1/4" **No. 415-2K**: L. 117 mm
1 ratchet 3/8" **No. 435-2K**: L. 193 mm
1 extension 1/4" **No. 405**: L. 150 mm
2 extensions 3/8" **No. 427**: L. 76; 240 mm
1 universal joint 1/4" **No. 407**: L. 37 mm
1 universal joint 3/8" **No. 428**: L. 46 mm
1 drive handle 1/4" **No. 400N**: L. 150 mm
1 T-handle 1/4" **No. 425**: L. 165 mm
1 bit holder 1/4" **No. 412**: L. 25 mm
1 bit holder 1/4" **No. 442**: L. 32 mm
1 square drive adaptor **No. 431**: 3/8 to 1/4"

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96012047	1/4, 3/8	420	230	60	48	2712

MADE IN CRONENBERG
MADE IN GERMANY

For more than 160 years, the STAHLWILLE brand has been synonymous with premium tools. From its foundation by Eduard Wille to the present day, our goal has always been the same: to manufacture tools that set the standard and that are 'Made in Germany'.

40/52/45/12QR



QuickRelease socket set

— in a sturdy, stackable ABS plastic box

Contains 57-pieces:

9 sockets with hex 1/4" **No. 40**: 4; 5; 5.5; 6; 7; 8; 9; 10; 11 mm
3 screwdriver sockets INHEX 1/4" **No. 44**: 3; 4; 5 mm
1 QuickRelease fine-tooth ratchet 1/4" **No. 415QR N**: L. 117 mm
1 QuickRelease drive handle 1/4" **No. 400QR**: L. 150 mm
1 QuickRelease T-handle **No. 404QR**: L. 116 mm
2 QuickRelease extensions 1/4" **No. 405QR**: L. 54; 150 mm
1 QuickRelease universal joint 1/4" **No. 407QR**: L. 45 mm
1 bit holder 1/4" **No. 412**: L. 25 mm
3 bits PHILLIPS® 1/4" **No. PH 1221-1223**: PH1; PH2; PH3
3 bits POZIDRIV® 1/4" **No. PZ 1221-1222**: PZ1; PZ2
3 bits slotted 1/4" **No. 1160, 1164, 1166:** 0.5 x 3; 0.8 x 4; 1.0 x 5.5 mm
3 bits hex 1/4" **No. 1300-1302**: 3; 4; 5 mm
7 bits TORX® 1/4" **No. 1414-1419**: T10; T15; T20; T25; T27; T30; T40
10 sockets with hex 1/2" **No. 52**: 13; 16; 17; 18; 19; 21; 22; 24; 27; 30 mm
5 screwdriver sockets INHEX 1/2" **No. 54**: 6; 8; 10; 12; 14 mm
1 QuickRelease fine-tooth ratchet 1/2" **No. 512QR N80**: L. 265.5 mm
1 QuickRelease T-handle **No. 506QR**: L. 300 mm
2 QuickRelease extensions 1/2" **No. 509QR**: L. 130; 255 mm
1 QuickRelease universal joint 1/2" **No. 510QR**: L. 80 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
91222607	1/4, 1/2	290	480	85	57	5398

40/52/27/11



Socket set

— in a sturdy, stackable ABS plastic box

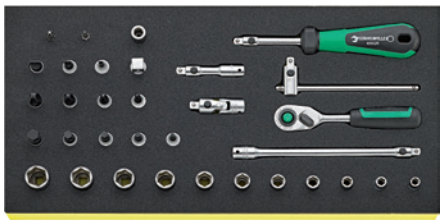
Contains 38-pieces:

9 sockets with hex 1/4" **No. 40** : 4; 5; 5.5; 6; 7; 8; 9; 10; 11 mm
3 screwdriver sockets INHEX 1/4" **No. 44**: 3; 4; 5 mm
1 ratchet 1/4" **No. 415-2K**: L. 117 mm
2 extensions 1/4" **No. 405:** L. 54; 150 mm
1 universal joint 1/4" **No. 407**: L. 37 mm
1 drive handle 1/4" **No. 400N**: L. 150 mm
1 T-handle 1/4" **No. 404**: L. 116 mm
10 sockets with hex 1/2" **No. 52**: 13; 16; 17; 18; 19; 21; 22; 24; 27; 30 mm
5 screwdriver sockets INHEX 1/2" **No. 54**: 6; 8; 10; 12; 14 mm
1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm
2 extensions 1/2" **No. 509**: L. 130; 255 mm
1 universal joint 1/2" **No. 510**: L. 71 mm
1 T-handle 1/2" **No. 506**: L. 300 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96011160	1/4, 1/2	458	254	65	38	4915



TCS 40/41/44/8QR



QuickRelease socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 33-pieces:
11 sockets with hex 1/4" **No. 40**: 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
3 screwdriver sockets slotted 1/4" **No. 41K**: 0.6 x 3.5; 1.0 x 5.5; 1.2 x 8 mm
5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm
4 screwdriver sockets PHILLIPS® 1/4" **No. 44PH**: PH1; PH2; PH3; PH4
1 QuickRelease fine-tooth ratchet 1/4" **No. 415QR N**: L. 117 mm
2 bits POZIDRIV® 1/4" **No. PZ 1221, PZ 1222**: PZ1; PZ2
1 QuickRelease drive handle 1/4" **No. 400QR**: L. 150 mm
1 QuickRelease T-handle 1/4" **No. 404QR**: L. 116 mm
2 QuickRelease extensions 1/4" **No. 405QR**: L. 54; 150 mm
1 QuickRelease universal joint 1/4" **No. 407QR**: L. 38 mm
1 square drive adaptor **No. 409**: 1/4 to 3/8"
1 bit holder 1/4" **No. 412**: L. 25 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830365	1/4	350	175	45	1/3	33	715





High Performance Quality (HPQ®)
Our HPQ® tool is made of wear-resistant high-performance steel, yet is thin-walled and lightweight. It withstands high torques and is ideal for work in confined spaces such as turbines.

TCS 40/52/6QR



QuickRelease socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 38-pieces:
11 sockets with hex 1/4" **No. 40**: 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
17 sockets with hex 1/2" **No. 52**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm
2 QuickRelease extensions 1/4" **No. 405QR**: L. 54; 150 mm
1 QuickRelease fine-tooth ratchet 1/4" **No. 415QR N**: L. 117 mm
1 adaptor, hand-operated 1/4" **No. 3116**: L. 25 mm
2 QuickRelease extensions 1/2" **No. 509QR**: L. 130; 255 mm
1 QuickRelease fine-tooth ratchet 1/2" **No. 512QR N80**: L. 265.5 mm
1 square drive adaptor **No. 410**: 1/4 to 1/2"
1 square drive adaptor **No. 513**: 1/2 to 3/8"
1 bit holder 1/4" **No. 412**: L. 25 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830264	1/4, 1/2	350	350	55	2/3	38	3890

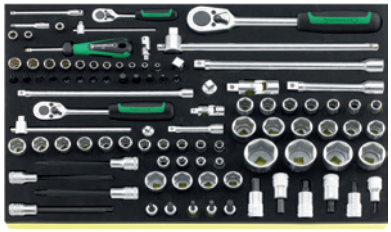
TCS 54/54TX/44/44K/44KTX/40



Screwdriver socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 40-pieces:
9 screwdriver sockets TORX® 1/2" **No. 54TX**: T20; T25; T27; T30; T40; T45; T50; T55; T60
10 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 7; 8; 10; 12; 14; 17; 19 mm
2 screwdriver sockets TORX® 1/2" **No. 1054TX**: T30; T50
2 screwdriver sockets INHEX 1/2" **No. 1054/2054**: 6; 8 mm
4 screwdriver sockets INHEX 1/4" **No. 44**: 3; 4; 5; 6 mm
8 screwdriver sockets TORX® 1/4" **No. 44KTX**: T8; T10; T15; T20; T25; T27; T30; T40
5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830274	1/4, 1/2	350	350	50	2/3	40	3340

TCS 40/456/52/78/19



Socket set

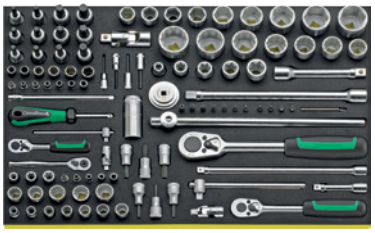
— safely integrated in the modular Tool Control System (TCS)

Contains 97-pieces:

11 sockets with hex 1/4" **No. 40**: 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm
2 sockets TORX® 1/4" **No. 40TX**: E8; E10
5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm
8 screwdriver sockets TORX®, with hole 1/4" **No. 44KTXB**: T8; T10; T15; T20; T25; T27; T30; T40
1 drive handle 1/4" **No. 400N**: L. 150 mm
1 T-handle 1/4" **No. 404**: L. 116 mm
2 extensions 1/4" **No. 405**: L. 54; 100 mm
1 universal joint 1/4" **No. 407**: L. 38 mm
1 bit holder 1/4" **No. 412**: L. 25 mm
1 ratchet 1/4" **No. 415-2K**: L. 117 mm
4 sockets TORX® 3/8" **No. 45TX**: E8; E10; E12; E14
3 screwdriver sockets INHEX 3/8" **No. 49**: 5; 6; 8 mm
2 sockets TORX® 3/8" **No. 49TX**: T25; T45
1 T-handle 3/8" **No. 425**: L. 165 mm
2 extensions 3/8" **No. 427**: L. 76; 240 mm
1 universal joint 3/8" **No. 428**: L. 46 mm
1 square drive adaptor **No. 431**: 3/8 to 1/4"
1 square drive adaptor **No. 432**: 3/8 to 1/2"
1 ratchet 3/8" **No. 435-2K**: L. 193 mm
15 sockets with hex 3/8" **No. 456**: 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
17 sockets with hex 1/2" **No. 52**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32; 34 mm
2 screwdriver sockets INHEX 1/2" **No. 54**: 10; 12 mm
4 screwdriver sockets TORX® 1/2" **No. 54TX**: T40; T50; T55; T60
1 T-handle 1/2" **No. 506**: L. 300 mm
2 extensions 1/2" **No. 509**: L. 130; 255 mm
1 universal joint 1/2" **No. 510**: L. 71 mm
1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm
1 square drive adaptor **No. 513**: 1/2 to 3/8"
2 screwdriver sockets TORX® 1/2" **No. 1054TX**: T50; T55
2 screwdriver sockets TORX® 1/2" **No. 2054TX**: T40; T45

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96832095	1/4, 3/8, 1/2	350	530	60	3/3	97	7000

TCS 40/45/50/89/19



Socket set

— safely integrated in the modular Tool Control System (TCS)

Contains 108-pieces:

13 sockets with bi-hex 1/4" **No. 40**: 3.5; 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm
5 sockets TORX® 1/4" **No. 40TX**: E4; E5; E6; E7; E8
4 screwdriver sockets INHEX 1/4" **No. 44**: 3; 4; 5; 6 mm
1 drive handle 1/4" **No. 400N**: L. 150 mm
1 T-handle 1/4" **No. 404**: L. 116 mm
1 extension 1/4" **No. 405**: L. 150 mm
1 universal joint 1/4" **No. 407**: L. 38 mm
1 square drive adaptor **No. 409M**: 1/4 to 3/8"
1 ratchet 1/4" **No. 415-2K**: L. 117 mm
1 bit fine-tooth ratchet 1/4" **No. 415SGB N**: L. 117 mm
12 sockets with bi-hex 3/8" **No. 45**: 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm
3 sockets TORX® 3/8" **No. 45TX**: E10; E12; E14
1 socket with bi-hex 3/8" **No. 46**: 20.8 mm-13/16"
6 screwdriver sockets INHEX 3/8" **No. 49**: 4; 5; 6; 7; 8; 10 mm
1 T-handle 3/8" **No. 425**: L. 165 mm
2 extensions 3/8" **No. 427**: L. 76; 240 mm
1 universal joint 3/8" **No. 428**: L. 46 mm
1 square drive adaptor **No. 432M**: 3/8 to 1/2"
1 ratchet 3/8" **No. 435-2K**: L. 193 mm
7 sockets with bi-hex 1/2" **No. 50**: 19; 21; 22; 24; 27; 30; 32 mm
5 sockets TORX® 1/2" **No. 50TX**: E11; E16; E18; E20; E24
9 sockets with hex 1/2" **No. 52**: 16; 17; 18; 19; 22; 24; 27; 30; 32 mm
4 screwdriver sockets INHEX 1/2" **No. 54**: 6; 7; 8; 10 mm
4 screwdriver sockets TORX® 1/2" **No. 54TX**: T45; T50; T55; T60
4 screwdriver sockets XZN® 1/2" **No. 54X**: M6; M8; M12; M14
1 T-handle 1/2" **No. 506**: L. 300 mm
2 extensions 1/2" **No. 509**: L. 130; 255 mm
1 universal joint 1/2" **No. 510**: L. 71 mm
1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm
1 square drive adaptor **No. 514M**: 1/2 to 3/4"
5 bits TORX® **No. 1410-1427**: T6; T7; T8; T9; T25
7 bits TORX® **No. 1440-1446**: T10; T15; T20; T25; T27; T30; T40

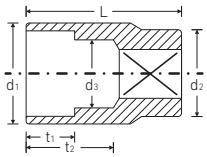
Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830192	1/4, 3/8, 1/2, 3/4	350	530	70	3/3	108	7770

3/8" SOCKETRY.

45



Sockets
- bi-hex with AS-Drive profile
- 3/8" internal square drive
- HPQ® high performance steel, chrome-plated
- DIN 3124 / ISO 2725-1 / ASME B 107.5M / DIN EN 3709



Product no.	mm	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
02010007	7	24	10.5	16.5	6	6	12.5	19
02010008	8	25	11.7	16.5	7	7	13.5	19
02010009	9	25	13	16.5	8	7	13.5	19
02010010	10	27	14.3	16.5	9	8.5	15.5	20
02010011	11	27	15.6	16.5	10	8.5	13.7	21
02010012	12	28	16.9	17.5	11	9.5	14.4	24
02010013	13	30	18	17.5	12	11.5	16.1	30
02010014	14	30	19.4	17.5	13	11.5	15.8	28
02010015	15	31	20.6	19	14	12.5	19.2	40
02010016	16	31	21.7	19	15	13.5	18.9	33
02010017	17	31	23	19	16	12.5	18.6	44
02010018	18	32	24.2	19	17	13.5	19.3	39
02010019	19	32	25.2	19	18	13.5	19	39
02010020	20	34	26.2	20	19	15.5	20.7	51
02010021	21	34	27.7	21	20	15.5	20.5	53
02010022	22	35	28.7	21	21	17	21.2	61
02010024	24	35	31.5	24	21	18	21.2	92



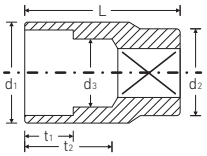


Anti-Slip-Drive
The special AS-Drive profile makes high force transmission to the flats of screws and bolts possible without damaging them. This also prevents stripping of the screw head.

45a



Sockets
- bi-hex with AS-Drive profile
- 3/8" internal square drive
- HPQ® high performance steel, chrome-plated
- ASME B 107.1 / Fed. Spec. GGG-W-641 / SAE AS 954-E (test values)

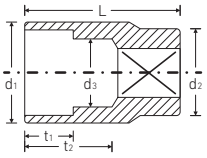


Product no.	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
02410016	1/4	24	9.7	16.5	5.2	6	12.5	18
02410020	5/16	25	11.7	16.5	7	7	13.5	19
02410022	11/32	25	12.5	16.5	8.1	7	13.5	19
02410024	3/8	27	13.7	16.5	8.4	8.5	15.5	20
02410028	7/16	28	15.7	16.5	10	9.5	15.1	20
02410032	1/2	30	18	17.5	11.5	11.5	16.5	24
02410034	9/16	31	20.2	19	13.1	12.7	16.8	28
02410035	19/32	31	20.6	19	14	13	19.2	36
02410036	5/8	31	21.7	19	15	13.5	18.9	31
02410038	11/16	32	23.4	19	16.3	14.7	19.5	34
02410040	3/4	32	25.2	19	18	15.9	19	41
02410042	13/16	34	27.2	20.5	19.4	16.5	20.5	52
02410044	7/8	35	28.7	22	21	18	21	59
02410046	15/16	35	31.5	24	22.6	18.5	20.7	95
02410048	1	35	33	25.5	24.2	18.5	20.2	97

45aP



Socket
- bi-hex with AS-Drive profile
- 3/8" internal square drive
- HPQ® high performance steel, gunmetal finish
- ASME B 107.1 / Fed. Spec. GGG-W-641 / SAE AS 954-E (test values)

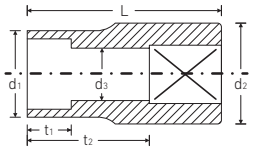


Product no.	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
02430020	5/16	25	11.9	16.5	8.1	7	13.5	19

45aSP



Sockets
- for external Spline-Drive screws
- 3/8" internal square drive
- HPQ® high performance steel, chrome-plated
- MS-33787 / MIL-W-8982

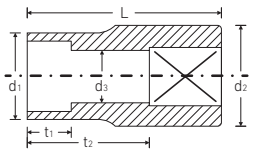


Product no.	Size	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
02011012	12	3/8	26.5	13.7	16.5	8.6	9	15	24
02011014	14	7/16	28	16	17.3	10.4	11	14.5	37
02011016	16	1/2	28	18	18.3	12.2	11.5	14	28

45aPSP



Socket
- for external Spline-Drive screws
- 3/8" internal square drive
- HPQ® high performance steel, gunmetal finish
- MS-33787 / MIL-W-8982

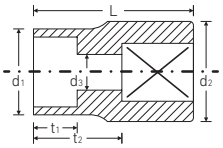


Product no.	Size	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
22410028	14	7/16	28	18.8	18.8	10.4	11	14.5	36

45TX



Sockets
- for external TORX® screws
- 3/8" internal square drive
- HPQ® high performance steel, chrome-plated



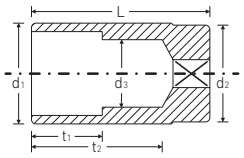
Product no.	Size	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
02270005	E5	28	7	16.5	2.8	5	16.5	23
02270006	E6	28	8	16.5	3.6	5.5	16.5	23
02270007	E7	28	9	16.5	3.8	6.5	16.5	24
02270008	E8	28	10.5	16.5	4.3	7	16.5	22
02270010	E10	28	13	16.5	5.6	8	16.5	27
02270012	E12	28	14.9	16.5	7.2	9.5	16.5	30
02270014	E14	28	16.5	17.3	8	10	16.5	34



46



Sockets
- long version
- bi-hex with AS-Drive profile
- 3/8" internal square drive
- HPQ® high performance steel, chrome-plated
- size 20.8: with rubber insert for spark plugs
- DIN 3124 / ISO 2725-1 / DIN EN 3710 / DIN EN 3709 / ASME B 107.5M

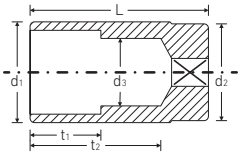


Product no.	mm	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
02020008	8		54	11.7	16.5	7	9	42.5	36
02020010	10		54	14.3	16.5	9	20	42.5	41
02020011	11		54	15.6	16.5	10	20	40.7	51
02020012	12		54	16.9	17.5	11	20	40.4	57
02020013	13		54	18	17.5	12	20	40.1	61
02020014	14		60	19.4	17.5	13	25	45.8	75
02020015	15		60	20.6	19	14	25	48.2	85
02020016	16		60	21.7	19.5	15	25	47.9	81
02020017	17		65	23	21	16	30	52.6	97
02020018	18		65	24.2	22	17	30	52.3	121
02020019	19		65	25.2	23	18	30	52	112
02020208	20.8	13/16	65	27.2	25	-	18	-	151
02020021	21		65	27.7	25.5	20	30	51.5	137
02020022	22		65	28.7	26.5	21	30	51.2	178

46a



Sockets
- long version
- bi-hex with AS-Drive profile
- 3/8" internal square drive
- HPQ® high performance steel, chrome-plated
- ASME B 107.1 / Fed. Spec. GGG-W-641 / SAE AS 954-E

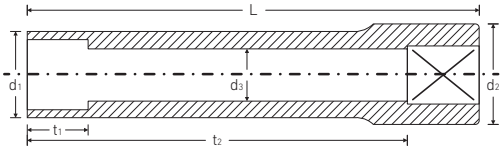


Product no.	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
02420016	1/4	54	9.7	16.5	5.2	9	42.5	33
02420020	5/16	54	11.7	16.5	7	9	42.5	35
02420022	11/32	54	12.5	16.5	8.1	9	42.5	56
02420024	3/8	54	13.7	16.5	8.4	20	42.5	45
02420028	7/16	54	15.7	16.5	10	20	40.7	53
02420032	1/2	54	18	17.5	11.5	20	40.2	64
02420034	9/16	60	20.2	19	13.1	25	45.8	80
02420035	19/32	60	20.6	19	14	25	48.2	84
02420036	5/8	60	21.7	19.5	15	25	47.9	81
02420038	11/16	65	23.4	21.5	16.3	30	52.5	114
02420040	3/4	65	25.2	23	18	30	52	137
02420042	13/16	65	27.2	25	19.4	30	51.6	130
02420044	7/8	65	28.7	26.5	21	30	51.2	184
02420046	15/16	65	31.5	29	22.6	30	50.7	195
02420048	1	65	33	31	24.2	30	50.2	205

46aSP



Sockets
- long version, deep drilled
- for external Spline-Drive screws
- 3/8" internal square drive
- HPQ® high performance steel, chrome-plated
- MS-33787 / MIL-W-8982



Product no.	Size	"	L mm	d1 mm	d2 mm	d3 mm	t2 mm	g
02021012	12	3/8	54	13.7	16.5	8.6	42.5	52
02021014	14	7/16	54	16	17.3	10.4	42.5	63

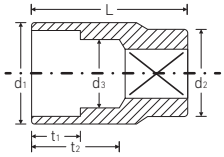
MADE IN CRONENBERG
MADE IN GERMANY

For more than 160 years, the STAHLWILLE brand has been synonymous with premium tools. From its foundation by Eduard Wille to the present day, our goal has always been the same: to manufacture tools that set the standard and that are 'Made in Germany'.

456



Sockets
- hex with AS-Drive profile
- 3/8" internal square drive
- HPQ® high performance steel, chrome-plated
- DIN 3124 / ISO 2725-1 / ASME B 107.5M / DIN EN 3709

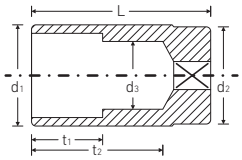


Product no.	mm	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
02110007	7	24	10.5	16.5	6	6	12.5	19
02110008	8	25	11.7	16.5	7	7	13.5	19
02110009	9	25	13	16.5	8	7	13.5	20
02110010	10	27	14.3	16.5	9	8.5	15.5	20
02110011	11	27	15.6	16.5	10	8.5	13.7	21
02110012	12	28	16.9	17.5	11	9.5	14.4	24
02110013	13	30	18	17.5	12	11.5	16.1	25
02110014	14	30	19.4	17.5	13	11.5	15.8	29
02110015	15	31	20.6	19	14	12.5	19.2	30
02110016	16	31	21.7	19	15	13.5	18.9	34
02110017	17	31	23	19	16	12.5	18.6	45
02110018	18	32	24.2	19	17	13.5	19.3	42
02110019	19	32	25.2	19.6	18	13.5	19	43
02110020	20	34	26.2	20.5	19	15.5	20.7	53
02110021	21	34	27.7	21.8	20	15.5	20.5	59
02110022	22	35	28.7	21	21	17	21.2	59

460a



Sockets
- bi-hex with AS-Drive profile
- 3/8" internal square drive
- HPQ® high performance steel, chrome-plated
- SAE AS 954-E / S.B.A.C. AS 40610/40611 / ASME B 107.1



Product no.	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
02620016	1/4	32	9.9	16.5	5.2	7	20.5	21
02620020	5/16	32	11.5	16.5	7	8.5	20.5	22
02620024	3/8	38	13.7	16.5	8.5	9	26.5	29
02620028	7/16	38	15.7	16.5	10	11	24.5	33
02620032	1/2	44	17.5	17.8	11.5	12	30	44

3046



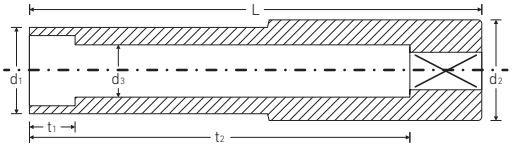
Oil filter wrenches
- hex
- 3/8" internal square drive
- for removing and mounting the oil filter housing cover when changing the oil filter insert

Product no.	"	mm	L mm	g
02111032	3/8	32	43	130
02111036	3/8	36	50	160

3466



Spark plug socket
- long version, with magnet
- hex with AS-Drive profile
- 3/8" internal square drive
- HPQ® high performance steel, chrome-plated



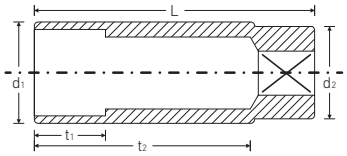
Product no.	mm	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
02140036	16	5/8	85	21.8	25.5	15	7	72.9	180

TOOLS THAT
... inspire

4600



Spark plug socket
- long version, with rubber insert
- bi-hex with AS-Drive profile
- $^3/_8$" internal square drive
- HPQ® high performance steel, chrome-plated

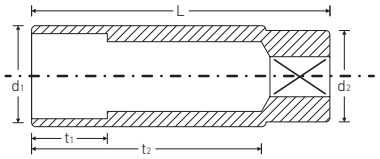


Product no.	mm	"	L mm	d_1 mm	d_2 mm	t_1 mm	t_2 mm	g
02120036	16	$^5/_8$	60	21.7	19.5	15	47.8	84

4606



Spark plug socket
- long version, with rubber insert
- hex with AS-Drive profile
- $^3/_8$" internal square drive
- HPQ® high performance steel, chrome-plated



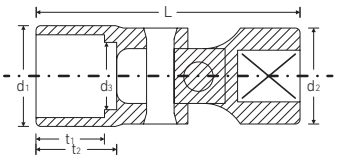
Product no.	mm	"	L mm	d_1 mm	d_2 mm	t_1 mm	t_2 mm	g
02130018	18	$^{11}/_{16}$	65	24.2	22	18	52.8	132



47



Uniflex sockets
- bi-hex with AS-Drive profile
- $^3/_8$" internal square drive
- HPQ® high performance steel, chrome-plated

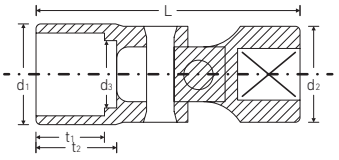


Product no.	mm	L mm	d_1 mm	d_2 mm	d_3 mm	t_1 mm	t_2 mm	g
02040010	10	45.5	14.3	17.5	9	7	12	51
02040011	11	47.5	15.6	17.5	10	11	14	55
02040012	12	48	16.9	17.5	11	11	14.5	54
02040013	13	48	18.3	17.5	12	12	14.5	53
02040014	14	48.5	19.4	17.5	13	13	14.5	55
02040015	15	48.5	20.6	17.5	14	13	14.5	56
02040016	16	51.5	21.8	17.5	15	14	17	58
02040017	17	53.5	23	17.5	16	15	18.5	65
02040018	18	54.5	24.2	17.5	17	16	18.5	61
02040019	19	57	25.5	17.5	18	16	21	68

47a



Uniflex sockets
- bi-hex with AS-Drive profile
- $^3/_8$" internal square drive
- HPQ® high performance steel, chrome-plated
- SAE AS 954-E

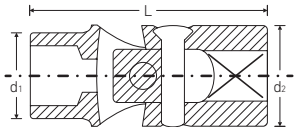


Product no.	"	L mm	d_1 mm	d_2 mm	d_3 mm	t_1 mm	t_2 mm	g
02440020	$^5/_{16}$	45.5	11.7	17.5	7	7	12.5	50
02440024	$^3/_8$	45.5	13.7	17.5	8.5	7	12	50
02440028	$^7/_{16}$	47.5	15.8	17.5	10	11	14	50
02440032	$^1/_2$	47.5	18.3	17.5	11.5	11.5	14	57
02440034	$^9/_{16}$	48.5	19.7	17.5	13.1	13	14.5	55
02440036	$^5/_8$	51.5	21.6	17.5	15	14	17	59
02440038	$^{11}/_{16}$	53.5	23.5	17.5	16.3	16	18.5	58
02440040	$^3/_4$	57	25.5	17.5	18	16	21	67

47TX



Uniflex sockets
— for external TORX® screws
— 3/8" internal square drive
— Chrome Alloy Steel, chrome-plated

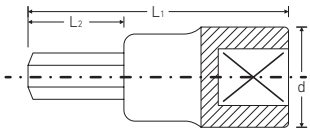


Product no.	Size	L mm	d_1 mm	d_2 mm	g
02070008	E8	43	11.5	19	56
02070010	E10	44	13.8	19	61
02070012	E12	46	16	19	66
02070014	E14	48	17.8	19	75

49



INHEX screwdriver sockets
— for hex socket head screws
— 3/8" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 7422

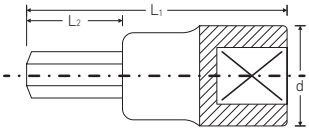


Product no.	mm	L_1 mm	L_2 mm	∅ (d) mm	g
02050003	3	52	20	17.8	38
02050004	4	52	20	17.8	40
02050005	5	52	20	17.8	44
02050006	6	52	20	17.8	46
02050007	7	52	20	17.8	51
02050008	8	52	20	17.8	55
02050010	10	52	20	17.8	62

49a



INHEX screwdriver sockets
— for hex socket head screws
— 3/8" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 7422



Product no.	"	L_1 mm	L_2 mm	∅ (d) mm	g
02450008	1/8	52	20	17.8	39
02450009	9/64	52	20	17.8	40
02450010	5/32	52	20	17.8	40
02450012	3/16	52	20	17.8	44
02450014	7/32	52	20	17.8	46
02450016	1/4	52	20	17.8	48
02450020	5/16	52	20	17.8	55
02450024	3/8	52	20	17.8	61

1049/3049



INHEX screwdriver sockets
— special lengths
— for hex socket head screws
— 3/8" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 7422

Product no.	mm	L_1 mm	L_2 mm	∅ (d) mm	g
02151007	7	100	68	17.8	66
02151009	9	57	25	17.8	62
02152408	8	24	6.5	19	28



2049



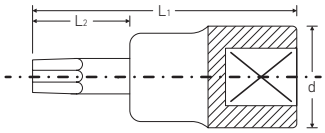
INHEX screwdriver sockets
— extra long design
— for hex socket head screws
— 3/8" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 7422

Product no.	mm	L1 mm	L2 mm	∅ (d) mm	g
02151004	4	100	68	17.8	45
02151005	5	100	68	17.8	50
02151006	6	100	68	17.8	50
02151208	8	120	88	17.8	85
02151210	10	120	88	17.8	106

49X



Screwdriver sockets
— for tri-square socket head screws XZN®
— 3/8" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 2324



Product no.	Size	L1 mm	L2 mm	∅ (d) mm	g
02060005	M5	52	20	17.8	45
02060006	M6	52	20	17.8	47
02060008	M8	52	20	17.8	56
02060010	M10	52	20	17.8	63

3049X



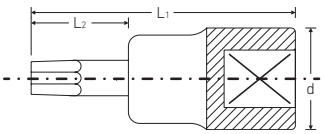
Screwdriver sockets
— extra long design
— for tri-square socket head screws XZN®
— 3/8" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 2324

Product no.	Size	L1 mm	L2 mm	∅ (d) mm	g
02261206	M6	120	88	17.8	72
02261208	M8	120	88	17.8	80
02261210	M10	120	88	17.8	106

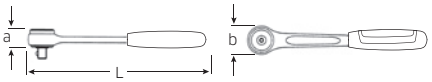
49TX



Screwdriver sockets
— for recessed TORX® screws
— 3/8" internal square drive
— Chrome Alloy Steel, chrome-plated



Product no.	Size	L1 mm	L2 mm	∅ (d) mm	g
02100009	T9	49	17	17.8	45
02100010	T10	49	17	17.8	45
02100015	T15	49	17	17.8	45
02100020	T20	49	17	17.8	46
02100025	T25	49	17	17.8	46
02100027	T27	49	17	17.8	46
02100030	T30	49	17	17.8	47
02100040	T40	49	17	17.8	48
02100045	T45	49	17	17.8	49



3/8" drive tools
Explanation of table headings

L = Overall length
a = Head height (excluding square drive)
b = Head width

422



Fine-tooth ratchet
— 3/8" external square drive
— reversible
— 60 teeth
— for working in tight spaces, with a working angle of just 6°
— with 2-component handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	"	L mm	a mm	b mm	°	g
12231011	3/8	194	24	32	6 °	236

435-2K



Ratchet
— 3/8" external square drive
— reversible
— 30 teeth
— with 2-component handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠°	g
12111010	3/8	193	18	29	12 °	235

435QR N



QuickRelease fine-tooth ratchet
— 3/8" external square drive
— reversible
— 80 teeth
— for working in tight spaces, with a working angle of just 4.5°
— with QuickRelease safety lock
— with 2-component handle
— FOD-preventive due to screwless design
— DBGM (German Federal Utility Model)
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠°	g
12111020	3/8	193	15	30	4.5 °	235

435SG-QR N



QuickRelease fine-tooth ratchet
— 3/8" external square drive
— reversible
— 80 teeth
— for working in tight spaces, with a working angle of just 4.5°
— with QuickRelease safety lock
— with steel handle
— FOD-preventive due to screwless design
— DBGM (German Federal Utility Model)
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠°	g
12111030	3/8	193	15	30	4.5 °	272

445



Ratchet adaptor
— 3/8" external square drive
— reversible
— 20 teeth
— Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	b mm	∠°	g
12140000	3/8	43	30	18 °	135

452QR



QuickRelease fine-tooth flexible ratchet
— 3/8" external square drive
— reversible
— 80 teeth
— for working in tight spaces, with a working angle of just 4.5°
— with QuickRelease safety lock
— handle can be swivelled up and down by approximately 90°, locking in the following positions: straight, 30° up, 60° up, 30° down
— lock releases at the push of a button
— with 2-component handle
— FOD-preventive due to screwless design
— DBGM (German Federal Utility Model)
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠°	g
12261010	3/8	300	14.5	28.2	4.5 °	350

4350

Ratchet spare parts set
Contains 8-pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 retaining screws

Product no.	for model	■ "	Content pcs.	g
19020000	435	3/8	8	50

4350QR

Ratchet spare parts set
Contains 8-pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 retaining screws

Product no.	for model	■ "	Content pcs.	g
19020020	435QR, 725QR/5	3/8	8	51

4350QR N

Ratchet spare parts set
Contains 9-pieces:
1 pinion; 1 locking disc; 1 switching lever; 1 pin; 1 ball; 1 compression spring; 2 circlips; 1 cover plate

Product no.	for model	■ "	Content pcs.	g
19021020	435QR N, 435SG-QR N, 452QR	3/8	9	48

424



Flexible handle
— with 2-component handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	g
12061010	3/8	253.5	222

425



T-handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	g
12070000	3/8	165	130

425QR



QuickRelease T-handle
— with QuickRelease safety lock
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— patented
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	g
12071000	3/8	165	148

425/1QR



QuickRelease T-handle
— with QuickRelease safety lock
— with **recessed** button
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	g
12071500	3/8	165	145

421



Speeder brace
— working radius: 85 mm
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

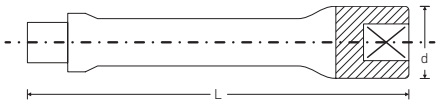
Product no.	■ "	L mm	g
12100010	3/8	386.5	385

453QR



QuickRelease speeder brace
— with QuickRelease safety lock
— with steel handle
— with ball locking function
— separate palm piece can be attached for greater axial force transmission
— working radius: 85 mm
— Chrome Alloy Steel, chrome-plated
— patented
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	g
12100005	3/8	408	650



3/8" extensions
Explanation of table headings

L = Overall length
d = Diameter of head

426QR



QuickRelease extensions
— with QuickRelease safety lock
— with **recessed** button
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	Size	■ "	L mm	∅ (d) mm	g
12011503	3	3/8	75	17	70
12011506	6	3/8	160	17	127
12011510	10	3/8	240	17	190
12011514	14	3/8	355	17	270

427



Extensions
— Chrome Alloy Steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	Size	■ "	L mm	∅ (d) mm	g
12010005	1.5	3/8	38	17	36
12010001	3	3/8	76	17	69
12010006	5	3/8	125	17	104
12010002	6	3/8	160	17	127
12010003	10	3/8	240	17	188
12010004	18	3/8	455	17	345

427QR



QuickRelease extensions
— with QuickRelease safety lock
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— patented
— DIN 3123 / ISO 3316

Product no.	Size	■ "	L mm	∅ (d) mm	g
12011001	3	3/8	76	17	66
12011002	6	3/8	160	17	127
12011003	10	3/8	240	17	185

427W



Wobble-Drive extensions
— swivel angle up to 15° to each side
— max. torque: 80 N·m
— Chrome Alloy Steel, chrome-plated

Product no.	Size	■ "	L mm	∅ (d) mm	g
12010007	3	3/8	76	17	67
12010008	5	3/8	125	17	104
12010009	6	3/8	160	17	127

434



Flexible extension
— only for clockwise tightening
— max. torque: 7 N·m
— Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	∅ (d) mm	g
12040000	3/8	194	14	109

1225



Special extension
— cranked
— Chrome Alloy Steel, chrome-plated

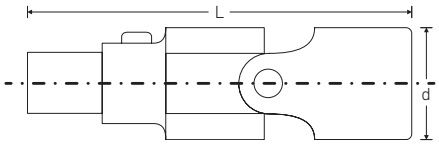
Product no.	■ "	L mm	∅ (d) mm	g
12250001	3/8	150	17	128

13220



Special extension
— to remove boroscope stoppers
— with locking of the borescope plugs
— with 16 mm external hex
— Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	g
12270020	3/8	355	330



3/8" universal joints

Explanation of table headings

L = Overall length
d = Diameter of head

428



Universal joint
— Chrome Alloy Steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
12020000	3/8	46	18.8	55

428QR



QuickRelease universal joint
— with QuickRelease safety lock
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— patented
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
12021000	3/8	60	19	66

428/1QR



QuickRelease universal joint
— with QuickRelease safety lock
— with **recessed** button
— with ball locking function
— patented
— Chrome Alloy Steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	g
12021500	3/8	60	70

431



Square drive adaptor
— 3/8 to 1/4"
— max. torque: 62 N·m
— HPQ® high performance steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
12030001	1/4	28	17.2	26

432



Square drive adaptor
— 3/8 to 1/2"
— HPQ® high performance steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
12030003	1/2	31	17.2	36

432M



Square drive adaptor
— 3/8 to 1/2"
— Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	g
12030010	1/2	16	22

433/1



Locking adaptor

— with hex L-Key 1/8" No. 10760a

Product no.	■ "	L mm	∅ (d) mm	g
96122701	3/8	52	18	57

45/10-12917



Socket set on clip rail

— bi-hex with AS-Drive profile
— HPQ® high performance steel, chrome-plated
— secure fixing to plastic clips with ball locking function
— can be mounted on a wall or perforated wall/panel
— DIN 3124 / ISO 2725-1 / DIN EN 3709 / ASME B 107.5M

Contains 10-pieces:

10 sockets with bi-hex 3/8" **No. 45**: 8; 10; 13; 14; 15; 17; 19; 21; 22, 24 mm
+ socket clip rail **No. 12917/10**

Product no.	Content pcs.	g
96052010	10	512

12917/10



Socket clip rail

— for organised and safe storage of sockets and accessories
— secure fixing to plastic clips with ball locking function
— can be mounted on a wall or perforated wall/panel

Product no.	■ "	L mm	Retaining clips	g
80450003	3/8	255	10	54

12916/12917/12918



Socket clip rail set

— for organised and safe storage of sockets and accessories
— secure fixing to plastic clips with ball locking function
— attachments can be combined with each other
— can be mounted on a wall or perforated wall/panel

Contains 3-pieces:

1 socket clip rail 1/4" (6.3 mm)
1 socket clip rail 3/8" (10 mm)
1 socket clip rail 1/2" (12.5 mm)

Product no.	L mm	Retaining clips	Content pcs.	g
96003010	315	30	3	190

45/11/4



Socket set

— in a sturdy, stackable ABS plastic box

Contains 15-pieces:

11 sockets with bi-hex 3/8" **No. 45**: 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm
1 ratchet 3/8" **No. 435-2K**: L. 193 mm
2 extensions 3/8" **No. 427**: L. 76; 240 mm
1 universal joint 3/8" **No. 428**: L. 46 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96021109	3/8	325	135	60	15	1444

TOOLS THAT
... inspire

45a/12/5



Socket set
— in a sturdy, stackable ABS plastic box
Contains 17-pieces:
11 sockets with bi-hex $^{3}/_{8}$" **No. 45a**: $^{1}/_{4}$; $^{5}/_{16}$; $^{11}/_{32}$; $^{3}/_{8}$; $^{7}/_{16}$; $^{1}/_{2}$; $^{9}/_{16}$; $^{5}/_{8}$; $^{11}/_{16}$; $^{3}/_{4}$; $^{13}/_{16}$"
1 socket long, with bi-hex and rubber insert $^{3}/_{8}$" **No. 4600**: 16 mm-$^{5}/_{8}$"
1 ratchet $^{3}/_{8}$" **No. 435-2K**: L. 193 mm
2 extensions $^{3}/_{8}$" **No. 427**: L. 76; 240 mm
1 T-handle $^{3}/_{8}$" **No. 425**: L. 165 mm
1 universal joint $^{3}/_{8}$" **No. 428**: L. 46 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96025204	$^{3}/_{8}$	325	135	60	17	1652

45/14/5I



Socket set
— in a sturdy, stackable ABS plastic box
Contains 19-pieces:
14 sockets with bi-hex $^{3}/_{8}$" **No. 45**: 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22 mm
1 ratchet $^{3}/_{8}$" **No. 435-2K**: L. 193 mm
2 extensions $^{3}/_{8}$" **No. 427**: L. 76; 240 mm
1 T-handle $^{3}/_{8}$" **No. 425**: L. 165 mm
1 universal joint $^{3}/_{8}$" **No. 428**: L. 46 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96024132	$^{3}/_{8}$	325	135	60	19	1678

45/14/5I QR



QuickRelease socket set
— in a sturdy, stackable ABS plastic box
Contains 19-pieces:
14 sockets with bi-hex $^{3}/_{8}$" **No. 45**: 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22 mm
1 QuickRelease fine-tooth ratchet $^{3}/_{8}$" **No. 435QR N**: L. 193 mm
2 QuickRelease extensions $^{3}/_{8}$" **No. 427QR**: L. 76; 240 mm
1 QuickRelease T-handle $^{3}/_{8}$" **No. 425QR**: L. 165 mm
1 QuickRelease universal joint $^{3}/_{8}$" **No. 428QR**: L. 60 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96021180	$^{3}/_{8}$	325	135	60	19	1738

45a/22/8QR



QuickRelease socket set
— in a sturdy, stackable ABS plastic box
Contains 30-pieces:
14 sockets with bi-hex $^{3}/_{8}$" **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"
8 flex sockets with bi-hex $^{3}/_{8}$" **No. 47a**: $^{5}/_{16}$; $^{3}/_{8}$; $^{7}/_{16}$; $^{1}/_{2}$; $^{9}/_{16}$; $^{5}/_{8}$; $^{11}/_{16}$; $^{3}/_{4}$"
1 QuickRelease fine-tooth ratchet $^{3}/_{8}$" **No. 435SG-QR N**: L. 193 mm
3 QuickRelease extensions $^{3}/_{8}$" **No. 427**: L. 76; 160; 240 mm
1 QuickRelease universal joint $^{3}/_{8}$" **No. 428QR**: L. 60 mm
2 bit holders $^{3}/_{8}$" **No. 442; 443** L. 32 mm
1 speeder brace $^{3}/_{8}$" **No. 453**: L. 408 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96025207	$^{3}/_{8}$	458	257	65	30	3685

45ma/28/5



Socket set

— in a sturdy, stackable ABS plastic box

Contains 33-pieces:

28 sockets with bi-hex $^{3}/_{8}$"

No. 45: 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm

No. 45a: $^{1}/_{4}$; $^{5}/_{16}$; $^{11}/_{32}$; $^{3}/_{8}$; $^{7}/_{16}$; $^{1}/_{2}$; $^{9}/_{16}$; $^{5}/_{8}$; $^{11}/_{16}$; $^{3}/_{4}$; $^{13}/_{16}$; $^{7}/_{8}$"

1 ratchet $^{3}/_{8}$" **No. 435-2K**: L. 193 mm

2 extensions $^{3}/_{8}$" **No. 427**: L. 76; 240 mm

1 T-handle $^{3}/_{8}$" **No. 425**: L. 165 mm

1 universal joint $^{3}/_{8}$" **No. 428**: L. 46 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96021122	$^{3}/_{8}$	417	230	60	33	2660

45ma/28/5QR



QuickRelease socket set

— in a sturdy, stackable ABS plastic box

Contains 33-pieces:

28 sockets with bi-hex $^{3}/_{8}$"

No. 45: 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm

No. 45a: $^{1}/_{4}$; $^{5}/_{16}$; $^{11}/_{32}$; $^{3}/_{8}$; $^{7}/_{16}$; $^{1}/_{2}$; $^{9}/_{16}$; $^{5}/_{8}$; $^{11}/_{16}$; $^{3}/_{4}$; $^{13}/_{16}$; $^{7}/_{8}$"

1 QuickRelease fine-tooth ratchet $^{3}/_{8}$" **No. 435QR N**: L. 193 mm

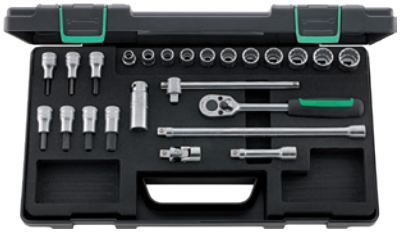
2 QuickRelease extensions $^{3}/_{8}$" **No. 427QR**: L. 76; 240 mm

1 QuickRelease T-handle $^{3}/_{8}$" **No. 425QR**: L. 165 mm

1 QuickRelease universal joint $^{3}/_{8}$" **No. 428QR**: L. 60 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96020107	$^{3}/_{8}$	415	230	60	33	2710

45/49/19/5



Socket set

— in a sturdy, stackable ABS plastic box

Contains 24-pieces:

11 sockets with bi-hex $^{3}/_{8}$" **No. 45**: 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm

1 socket long, with bi-hex and rubber insert $^{3}/_{8}$" **No. 4600**: 16 mm-$^{5}/_{8}$"

7 screwdriver sockets INHEX $^{3}/_{8}$" **No. 49**: 3; 4; 5; 6; 7; 8; 10 mm

1 ratchet $^{3}/_{8}$" **No. 435-2K**: L. 193 mm

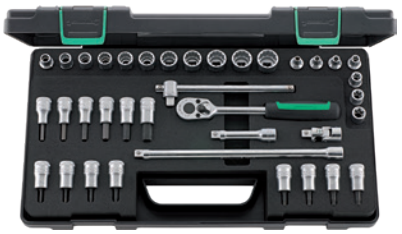
2 extensions $^{3}/_{8}$" **No. 427**: L. 76; 240 mm

1 T-handle $^{3}/_{8}$" **No. 425**: L. 165 mm

1 universal joint $^{3}/_{8}$" **No. 428**: L. 46 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96021223	$^{3}/_{8}$	417	230	60	24	2428

45/49/32/5TX



Socket set

— in a sturdy, stackable ABS plastic box

Contains 37-pieces:

11 sockets with bi-hex $^{3}/_{8}$" **No. 45**: 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm

7 sockets TORX® $^{3}/_{8}$" **No. 45TX**: E5; E6; E7; E8; E10; E12; E14

6 screwdriver sockets INHEX $^{3}/_{8}$" **No. 49**: 4; 5; 6; 7; 8; 10 mm

8 screwdriver sockets TORX® $^{3}/_{8}$" **No. 49TX**: T9; T10; T15; T20; T25; T27; T30; T40

1 ratchet $^{3}/_{8}$" **No. 435-2K**: L. 193 mm

2 extensions $^{3}/_{8}$" **No. 427**: L. 76; 240 mm

1 T-handle $^{3}/_{8}$" **No. 425**: L. 165 mm

1 universal joint $^{3}/_{8}$" **No. 428**: L. 46 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96022119	$^{3}/_{8}$	417	230	60	37	2860

45TX/7



TORX® socket set
— for external TORX® screws
— precisely fitting foam inlay
— in cardboard packaging
Contains 7-pieces:
7 sockets TORX® 3/8" **No. 45TX**: E5; E6; E7; E8; E10; E12; E14

Product no.	■ "	Content pcs.	g
96022702	3/8	7	219

49TX/8



TORX® screwdriver socket set
— for recessed TORX® screws
— precisely fitting foam inlay
— in cardboard packaging
Contains 8-pieces:
8 screwdriver sockets TORX® 3/8" **No. 49TX**: T9; T10; T15; T20; T25; T27; T30; T40

Product no.	■ "	Content pcs.	g
96021001	3/8	8	456

High Performance Quality (HPQ®)
Our HPQ® tool is made of wear-resistant high-performance steel, yet is thin-walled and lightweight. It withstands high torques and is ideal for work in confined spaces such as turbines.

TCS 49/1049/2049/45TX/49TX



Socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 24-pieces:
6 screwdriver sockets INHEX 3/8" **No. 49**: 4; 5; 6; 7; 8; 10 mm
1 screwdriver socket INHEX 3/8" **No. 1049**: 7 mm
5 screwdriver sockets INHEX 3/8" **No. 2049**: 4; 5; 6; 8; 10 mm
6 screwdriver sockets TORX® 3/8" **No. 45TX**: E5; E6; E7; E8; E10; E12
6 screwdriver sockets TORX® 3/8" **No. 49TX**: T10; T15; T20; T25; T30; T40

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838772	3/8	350	175	40	1/3	24	1188

456/11/4



Socket set
— in a sturdy, stackable ABS plastic box
Contains 15-pieces:
11 sockets with hex 3/8" **No. 456**: 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm
1 ratchet 3/8" **No. 435-2K**: L. 193 mm
2 extensions 3/8" **No. 427**: L. 76; 240 mm
1 universal joint 3/8" **No. 428**: L. 46 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96022133	3/8	325	135	60	15	1458

456/14/5I



Socket set
— in a sturdy, stackable ABS plastic box
Contains 19-pieces:
14 sockets with hex 3/8" **No. 456**: 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22 mm
1 ratchet 3/8" **No. 435-2K**: L. 193 mm
2 extensions 3/8" **No. 427**: L. 76; 240 mm
1 T-handle 3/8" **No. 425**: L. 165 mm
1 universal joint 3/8" **No. 428**: L. 46 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96023132	3/8	325	135	60	19	1758

TCS 456/31/8

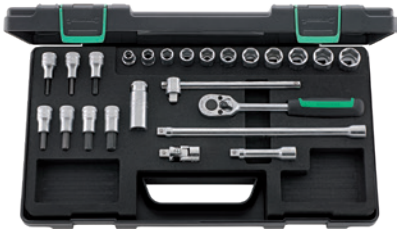




Socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 39-pieces:
16 sockets with hex 3/8" **No. 456**: 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
4 sockets with bi-hex 3/8" **No. 46**: 10; 11; 12; 13 mm
7 uniflex sockets with bi-hex 3/8" **No. 47**: 10; 11; 12; 13; 14; 15; 16 mm
1 screwdriver socket INHEX 3/8" **No. 1049**: 9 mm
3 screwdriver sockets XZN® 3/8" **No. 49X**: M6; M8; M10
3 extensions 3/8" **No. 427**: L. 76; 125; 240 mm
1 universal joint 3/8" **No. 428**: L. 46 mm
1 square drive adaptor **No. 431**: 3/8 to 1/4"
1 square drive adaptor **No. 432**: 3/8 to 1/2"
1 ratchet 3/8" **No. 435-2K**: L. 193 mm
1 QuickRelease fine-tooth flexible ratchet 3/8" **No. 452QR**: L. 300 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830602	3/8	350	350	32	2/3	39	2701

456/49/19/5



Socket set
— in a sturdy, stackable ABS plastic box
Contains 24-pieces:
11 sockets with hex 3/8" **No. 456**: 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm
1 socket long, with bi-hex and rubber insert 3/8" **No. 4600**: 16 mm-5/8"
7 screwdriver sockets INHEX 3/8" **No. 49**: 3; 4; 5; 6; 7; 8; 10 mm
1 ratchet 3/8" **No. 435-2K**: L. 193 mm
2 extensions 3/8" **No. 427**: L. 76; 240 mm
1 T-handle 3/8" **No. 425**: L. 165 mm
1 universal joint 3/8" **No. 428**: L. 46 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96021236	3/8	417	230	60	24	2456

TCS 456/16/6





Socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 22-pieces:
16 sockets with hex 3/8" **No. 456**: 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
1 T-handle 3/8" **No. 425**: L. 165 mm
3 extensions 3/8" **No. 427**: L. 76; 160; 240 mm
1 universal joint 3/8" **No. 428**: L. 46 mm
1 ratchet 3/8" **No. 435-2K**: L. 193 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838752	3/8	350	175	40	1/3	22	1465

TCS 456/16/6QR



QuickRelease socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 22-pieces:
16 sockets with hex 3/8" **No. 456**: 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
1 QuickRelease T-handle 3/8" **No. 425QR**: L. 165 mm
3 QuickRelease extensions 3/8" **No. 427QR**: L. 76; 160; 240 mm
1 QuickRelease universal joint 3/8" **No. 428QR**: L. 46 mm
1 QuickRelease fine-tooth ratchet 3/8" **No. 435QR N**: L. 193 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830367	3/8	350	175	40	1/3	22	1465

TCS 456/16/7QR



QuickRelease socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 23-pieces:
16 sockets with hex 3/8" **No. 456**: 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
3 QuickRelease extensions 3/8" **No. 427QR**: L. 76; 160; 240 mm
1 QuickRelease universal joint 3/8" **No. 428QR**: L. 46 mm
1 square drive adaptor **No. 431**: 3/8 to 1/4"
1 square drive adaptor **No. 432**: 3/8 to 1/2"
1 QuickRelease fine-tooth ratchet 3/8" **No. 435QR N**: L. 193 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830370	3/8	350	175	40	1/3	23	1400

TCS 456/16/7



Socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 23-pieces:
16 sockets with hex 3/8" **No. 456**: 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
3 extensions 3/8" **No. 427**: L. 76; 125; 240 mm
1 universal joint 3/8" **No. 428**: L. 46 mm
1 square drive adaptor **No. 431**: 3/8 to 1/4"
1 square drive adaptor **No. 432**: 3/8 to 1/2"
1 ratchet 3/8" **No. 435-2K**: L. 193 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830218	3/8	350	175	40	1/3	23	1400

TCS 456/16/4 MF



Socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 20-pieces:
16 sockets with hex 3/8" **No. 456**: 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm
2 extensions 3/8" **No. 427**: L. 125; 240 mm
1 universal joint 3/8" **No. 428**: L. 46 mm
1 ratchet 3/8" **No. 435-2K**: L. 193 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830357	3/8	350	175	45	1/3	20	1123

TCS 456/16/4QR MF



QuickRelease socket set

— safely integrated in the modular Tool Control System (TCS)

Contains 20-pieces:

16 sockets with hex 3/8" **No. 456**: 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm

2 QuickRelease extensions 3/8" **No. 427QR**: L. 160; 240 mm

1 QuickRelease universal joint 3/8" **No. 428QR**: L. 46 mm

1 QuickRelease fine-tooth ratchet 3/8" **No. 435QR N**: L. 193 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830371	3/8	350	175	45	1/3	20	1123

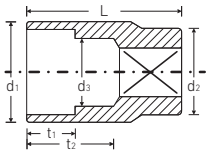


1/2" SOCKETRY.

50



Sockets
- bi-hex with AS-Drive profile
- $^1/_2$" internal square drive
- HPQ® high performance steel, chrome-plated
- DIN 3124 / ISO 2725-1 / DIN EN 3709 / ASME B 107.5 M

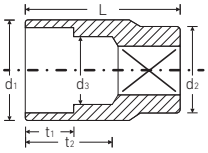


Product no.	mm	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
03010008	8	38	13	22	7	9	22	56
03010009	9	38	13.7	22	8	9	22	57
03010010	10	38	14.5	22	9	9	22	50
03010011	11	38	15.8	22	10	9.5	22	50
03010012	12	38	17	22	11	13	22	58
03010013	13	38	18.3	22	12	13	22	50
03010014	14	38	19.9	22.7	13	13	20.5	60
03010015	15	38	21.2	22.7	14	13.5	20.2	62
03010016	16	38	22.4	23.7	15	13.5	19.6	63
03010017	17	38	24	23.7	15.2	15	19.6	66
03010018	18	38	24.7	23.7	17	15.5	19.1	71
03010019	19	38	26.2	25	18	16	21.7	78
03010020	20	42	27.2	25	19	15	25.5	89
03010021	21	42	28.7	26	20	16	25.2	100
03010022	22	42	29.7	26	21	16.5	24.9	113
03010023	23	42	30.7	26	20	18	25.4	114
03010024	24	42	32	26	21	18.5	24.9	117
03010025	25	42	33.2	25	22	18.5	24.6	119
03010026	26	42	34.4	25	23	18.5	24.3	122
03010027	27	45	36.2	26	24	19.5	27	150
03010028	28	45	37.4	27	25	19.5	26.7	158
03010030	30	45	39.7	28	27	20.5	26.1	171
03010031	31	47	42.2	28	28	22	27.9	215
03010032	32	47	42.2	28	29	22	27.6	189
03010034	34	47	45	28	31	22	27	210
03010036	36	52	48	31	34	24	30.9	286

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Sockets
- bi-hex with AS-Drive profile
- $^1/_2$" internal square drive
- HPQ® high performance steel, chrome-plated
- ASME B 107.1 / Fed. Spec. GGG-W-641 / SAE AS 954-E (test values)



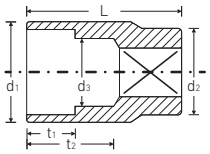
Product no.	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
03410024	$^3/_8$	38	14.3	22	8.3	9	22	51
03410028	$^7/_{16}$	38	16.3	22	9.9	9	22	52
03410032	$^1/_2$	38	18.3	22	11.5	13	22	53
03410034	$^9/_{16}$	38	20.3	22.7	13.1	13	20.2	58
03410035	$^{19}/_{32}$	38	21.3	22.7	13.5	13.5	20.1	61
03410036	$^5/_8$	38	22.4	23.7	15	13.5	19.6	65
03410038	$^{11}/_{16}$	38	24.2	23.7	16.5	15.5	19.2	68
03410040	$^3/_4$	38	26.2	25	18	16	21.7	78
03410041	$^{25}/_{32}$	41	27	25	18.6	16	24.6	90
03410042	$^{13}/_{16}$	41	28.2	25	19.4	16.5	24.3	95
03410044	$^7/_8$	42	29.7	26	21	18	24.9	111
03410046	$^{15}/_{16}$	42	32	26	22.6	18.5	24.4	121
03410048	1	42	33.7	27	24.2	18.5	24	135
03410050	1 $^1/_{16}$	45	36.2	26	25.8	19.5	26.5	155
03410052	1 $^1/_8$	45	38.1	28	27.4	20	26	167
03410054	1 $^3/_{16}$	45	39	28	28	20.5	25.9	178
03410056	1 $^1/_4$	45	40	28	30.5	21	25.1	196
03410058	1 $^5/_{16}$	47	41.8	28	32.1	22	26.7	170
03410060	1 $^3/_8$	50	46	28	33.7	23	29.2	232
03410062	1 $^7/_{16}$	54	49.4	31	34	26	33.1	320
03410064	1 $^1/_2$	54	51	31	35	26	32.8	325

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Sockets

— hex with AS-Drive profile
— $^{1}/_{2}$" internal square drive
— HPQ® high performance steel, chrome-plated
— DIN 3124 / ISO 2725-1 / ASME B 107.5M / DIN EN 3709



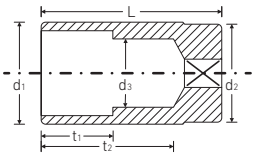
Product no.	mm	L mm	d_1 mm	d_2 mm	d_3 mm	t_1 mm	t_2 mm	g
03030008	8	38	13	22	7	9	22	56
03030009	9	38	13.7	22	8	9	22	56
03030010	10	38	14.5	22	9	9	22	51
03030011	11	38	15.8	22	10	9.5	22	58
03030012	12	38	17	22	11	13	22	52
03030013	13	38	18.3	22	12	13	22	51
03030014	14	38	19.9	22.7	13	13	20.5	59
03030015	15	38	21.2	22.7	14	13.5	20.2	60
03030016	16	38	22.4	23.7	15	13.5	19.6	65
03030017	17	38	24	23.7	15.2	15	19.6	70
03030018	18	38	24.7	23.7	17	15.5	19.1	73
03030019	19	38	26.2	25	18	16	21.7	80
03030020	20	42	27.2	25	19	15	25.5	95
03030021	21	42	28.7	26	20	16	25.2	110
03030022	22	42	29.7	26	21	16.5	24.9	115
03030023	23	42	30.7	26	20	18	25.4	119
03030024	24	42	32	26	21	18.5	24.9	125
03030025	25	42	33.2	26	22	18.5	24.6	128
03030026	26	42	34.4	25	23	18.5	24.3	132
03030027	27	45	36.2	26	24	19.5	27	161
03030028	28	45	37.4	27	25	19.5	26.7	166
03030030	30	45	39.7	28	27	20.5	26.1	186
03030032	32	47	42.2	28	29	22	27.6	200
03030034	34	47	45	28	31	22	27	235
03030036	36	52	48	31	34	24	30.9	305

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Sockets

— long version
— bi-hex with AS-Drive profile
— $^{1}/_{2}$" internal square drive
— size 16 mm-$^{5}/_{8}$", 20.8 mm-$^{13}/_{16}$": with rubber insert for spark plugs
— HPQ® high performance steel, chrome-plated
— DIN 3124 / ISO 2725-1 / DIN EN 3710 / DIN EN 3709 / ASME B 107.5M



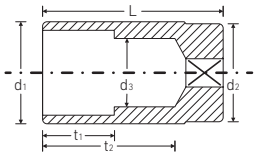
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03020010	10		83	14.5	22	9	19	67	90
03020013	13		83	18.3	22	12	35	67	122
03020014	14		83	19.9	22.7	13	35	65.2	129
03020015	15		83	21.2	22.7	14	35	64.9	125
03020016	16		83	22.4	23.7	15	35	64.6	145
03020216	16	$^{5}/_{8}$	83	22.4	23.7	15.4	19	64.5	137
03020017	17		83	24	23.7	16	35	64.3	145
03020018	18		83	24.7	23.7	17	35	64.1	170
03020019	19		83	26.2	25	18	35	66.7	165
03020208	20.8	$^{13}/_{16}$	83	27.7	26	20	22	66.2	194
03020021	21		83	28.7	26.5	20	35	66.2	231
03020022	22		83	29.7	27.5	21	35	65.5	200
03020024	24		83	32	30	21	35	66.1	251
03020026	26		83	34.4	32.5	23	35	65.3	334
03020027	27		83	36.2	34	27	20	60	280
03020030	30		83	39.7	37.5	30.2	35	65	341
03020032	32		83	42.4	40	29	35	63.9	435

TOOLS THAT
... inspire

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Sockets
- long version
- bi-hex with AS-Drive profile
- 1/2" internal square drive
- HPQ® high performance steel, chrome-plated
- ASME B 107.1 / Fed. Spec. GGG-W-641 / SAE AS 954-E

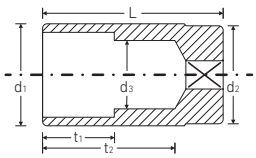


Product no.	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
03420024	3/8	83	14.3	22	8.3	19	67	93
03420028	7/16	83	16.3	22	9.9	19	67	102
03420032	1/2	83	18.3	22	11.5	35	67	122
03420034	9/16	83	20.3	22.7	13.1	35	65.2	131
03420036	5/8	83	22.4	23.7	15	35	64.6	135
03420038	11/16	83	24.2	23.7	16.5	35	64.2	158
03420040	3/4	83	26.2	25	18	35	66.7	188
03420042	13/16	83	27.7	26	19.5	35	66.3	170
03420044	7/8	83	29.7	27.5	21	35	65.9	200
03420046	15/16	83	32	30	22.6	35	65.7	281
03420048	1	83	33.7	32	24.2	35	65	260
03420050	1 1/16	83	36.2	34	25.8	35	64.5	359
03420052	1 1/8	83	38.1	36	27.4	35	64	300
03420054	1 3/16	83	39	37	28	35	63.9	377
03420056	1 1/4	83	40	38	30.5	35	63.1	340
03420058	1 5/16	83	41.8	40	32.1	35	62.7	375
03420060	1 3/8	83	46	44	33.7	35	62.2	506
03420062	1 7/16	83	49.4	47	34	35	62.1	635
03420064	1 1/2	83	51	49	35	35	61.8	675

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Sockets
- long version
- hex with AS-Drive profile
- 1/2" internal square drive
- HPQ® high performance steel, chrome-plated
- size 20.8 mm - 13/16": with rubber insert for spark plugs
- DIN 3124 / ISO 2725-1 / DIN EN 3710 / DIN EN 3709

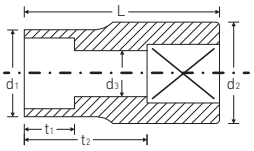


Product no.	mm	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
03240017	17		83	24	23.7	16	35	64.3	157
03240019	19		83	26.2	25	18	35	66.7	190
03240208	20.8	13/16	83	27.7	26	20	22	66.2	196
03240022	22		83	29.7	27.5	21	35	65.9	210

50aPSP



Sockets
- for external Spline-Drive screws
- 1/2" internal square drive
- HPQ® high performance steel, gunmetal finish
- MS-33787

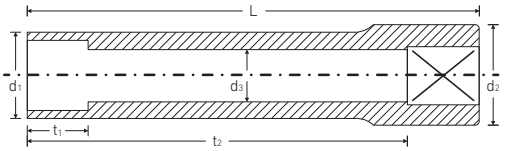


Product no.	Size	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
03012024	12	3/8	38	15.5	22	8.6	9.5	22	55
03012028	14	7/16	38	18	23.7	10.4	11	22	65
03012034	18	9/16	38	22	23.7	13.5	12	20	71

50aPLSP



Socket
- long version, deep drilled
- for external Spline-Drive screws
- 1/2" internal square drive
- HPQ® high performance steel, gunmetal finish
- MS-33787

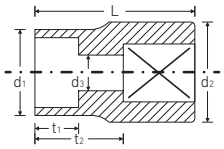


Product no.	Size	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
03013028	14	7/16	50	18	23.7	10.4	11	34	83

50TX



Sockets
- for external TORX® screws
- 1/2" internal square drive
- HPQ® high performance steel, chrome-plated

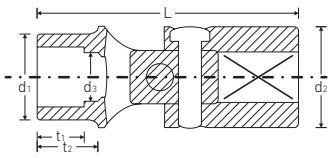


Product no.	Size	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
03270010	E10	38	13	22	5.6	9.5	22	55
03270011	E11	38	14	22	6	9.5	22	55
03270012	E12	38	14.9	22	7.2	9.5	22	60
03270014	E14	38	16.7	22	8	11	22	56
03270016	E16	38	19	22	9.3	12.5	22	60
03270018	E18	38	21	26.5	10.4	13.5	22	92
03270020	E20	38	23.5	26.5	12	15	22	98
03270024	E24	41.2	27.8	26	14.1	17.5	23.6	123

53



Uniflex sockets
- hex with AS-Drive profile
- 1/2" internal square drive
- Chrome Alloy Steel, chrome-plated



Product no.	mm	L mm	d1 mm	d2 mm	d3 mm	t2 mm	g
03040010	10	70	14.7	25	9	20	136
03040013	13	70	18.4	25	12	20	140
03040016	16	69	22.4	25	15	17	141
03040017	17	70	23.5	25	16	18	141
03040018	18	70	25	25	17	18	145
03040019	19	70	26.3	25	18	17.5	148

1062



Socket
- bi-hex with AS-Drive profile
- 1/2" internal square drive
- for injection nozzles on diesel engines

Product no.	mm	L mm	g
03830027	27	83	255

3678



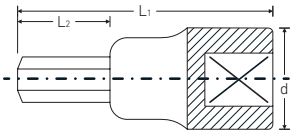
4-pin socket
- with 4 pins
- 1/2" internal square drive
- for removing, mounting or retightening the pressure nut on the injector

Product no.	L mm	g
03810001	72	151

54



INHEX screwdriver sockets
- for hex socket head screws
- 1/2" internal square drive
- Chrome Alloy Steel, chrome-plated
- DIN 7422

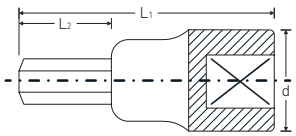


Product no.	mm	L1 mm	L2 mm	∅ (d) mm	g
03050004	4	60	22	22.7	68
03050005	5	60	22	22.7	68
03050006	6	60	22	22.7	71
03050007	7	60	22	22.7	75
03050008	8	60	22	22.7	70
03050010	10	60	22	22.7	97
03050012	12	60	20	23.7	122
03050014	14	60	20	23.7	135
03050017	17	60	20	27.5	186
03050019	19	60	20	31	242

54a



INHEX screwdriver sockets
- for hex socket head screws
- 1/2" internal square drive
- Chrome Alloy Steel, chrome-plated
- DIN 7422

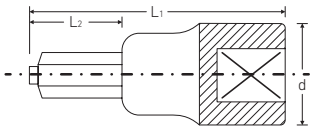


Product no.	◉ "	L1 mm	L2 mm	∅ (d) mm	g
03450014	7/32	60	22	22.7	70
03450016	1/4	60	22	22.7	75
03450020	5/16	60	22	22.7	81
03450024	3/8	60	22	22.7	90
03450028	7/16	60	22	22.7	103
03450032	1/2	60	20	23.7	125
03450034	9/16	60	20	23.7	137
03450036	5/8	60	20	27.5	169
03450040	3/4	60	20	31	244

54IC



INHEX screwdriver sockets
- for hex socket head screws, with pin guide
- 1/2" internal square drive
- Chrome Alloy Steel, chrome-plated

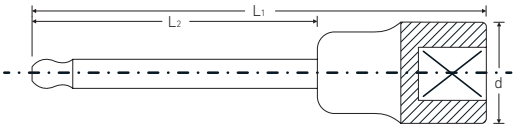


Product no.	◉ mm	L1 mm	L2 mm	∅ (d) mm	g
03070005	5	60	22	22.7	65
03070006	6	60	22	22.7	71
03070008	8	60	22	22.7	80
03070010	10	60	22	22.7	95
03070012	12	60	20	23.7	120
03070014	14	60	20	23.7	131

54KK



INHEX screwdriver sockets
- ball-ended
- for hex socket head screws
- 1/2" internal square drive
- swivel angle up to 25° to each side
- Chrome Alloy Steel, chrome-plated



Product no.	◉ mm	L1 mm	L2 mm	∅ (d) mm	g
03280005	5	100	62	22.7	75
03280006	6	100	62	22.7	80
03280007	7	100	62	22.7	85
03280008	8	100	62	22.7	95
03280010	10	100	62	22.7	120

1054/2054



INHEX screwdriver sockets
- extra long design
- for hex socket head screws
- 1/2" internal square drive
- Chrome Alloy Steel, chrome-plated
- DIN 7422

Product no.	◉ mm	L1 mm	L2 mm	∅ (d) mm	g
03151205	5	120	82	22.7	80
03151206	6	120	82	22.7	84
03151207	7	120	82	22.7	96
03151208	8	120	82	22.7	104
03151410	10	140	102	22.7	150
03151412	12	140	100	23.7	200
03151414	14	140	100	23.7	231

1054/3054



INHEX screwdriver sockets
- extra long design
- special lengths
- for hex socket head screws
- 1/2" internal square drive
- Chrome Alloy Steel, chrome-plated
- DIN 7422

Product no.	mm	L1 mm	L2 mm	∅ (d) mm	g
03151805	5	180	20	22	118
03150706	6	70	32	22.7	72
03151006	6	100	62	22.7	80
03152206	6	220	182	22.7	108
03151007	7	100	62	22.7	87
03150808	8	80	42	22.7	88
03151408	8	140	102	22.7	114
03150713	13	70	25	24	130

1054KK



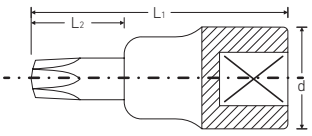
INHEX screwdriver sockets
- special lengths
- ball-ended
- for hex socket head screws
- 1/2" internal square drive
- swivel angle up to 25° to each side
- Chrome Alloy Steel, chrome-plated

Product no.	mm	L1 mm	L2 mm	∅ (d) mm	g
03310005	5	238	200	22.7	145
03310008	8	238	200	22.7	154

54TX



Screwdriver sockets
- for recessed TORX® screws
- 1/2" internal square drive
- Chrome Alloy Steel, chrome-plated

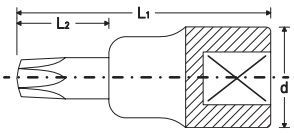


Product no.	Size	L1 mm	L2 mm	∅ (d) mm	g
03100020	T20	55	17	22.7	71
03100025	T25	55	17	22.7	71
03100027	T27	55	17	22.7	72
03100030	T30	55	17	22.7	72
03100040	T40	55	17	22.7	75
03100045	T45	55	17	22.7	74
03100050	T50	55	17	22.7	87
03100055	T55	58	18	23.7	110
03100060	T60	58	18	23.7	113
03100070	T70	60	20	27.5	155

54TXB



Screwdriver sockets
- for recessed TORX® screws
- with hole in the drive tip (TORX® Tamper Resistant)
- 1/2" internal square drive
- Chrome Alloy Steel, chrome-plated

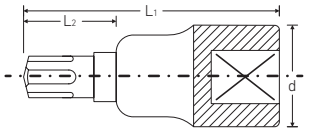


Product no.	Size	L1 mm	L2 mm	∅ (d) mm	g
03110020	T20	55	17	22.7	70
03110025	T25	55	17	22.7	65
03110027	T27	55	17	22.7	71
03110030	T30	55	17	22.7	71
03110040	T40	55	17	22.7	71
03110045	T45	55	17	22.7	72
03110050	T50	55	17	22.7	86
03110055	T55	58	18	23.7	111
03110060	T60	58	18	23.7	113

54CV



Screwdriver sockets
— for spline socket screws RIBE-CV®
— 1/2" internal square drive
— Chrome Alloy Steel, chrome-plated

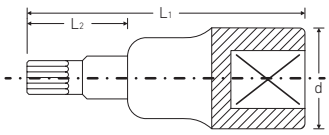


Product no.	Size	L1 mm	L2 mm	∅ (d) mm	g
03090005	M5	60	22	22.7	69
03090006	M6	60	22	22.7	71
03090007	M7	60	22	22.7	70
03090008	M8	60	22	22.7	78
03090010	M10	60	22	22.7	95
03090012	M12	60	20	23.7	119
03090013	M13	60	20	23.7	125
03090014	M14	60	20	23.7	126
03090016	M16	63	23	27.5	163

54X



Screwdriver sockets
— for tri-square socket head screws XZN®
— 1/2" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 2324



Product no.	Size	L1 mm	L2 mm	∅ (d) mm	g
03060005	M5	60	22	22.7	67
03060006	M6	60	22	22.7	74
03060008	M8	60	22	22.7	79
03060010	M10	60	22	22.7	94
03060012	M12	60	20	23.7	120
03060014	M14	60	20	23.7	128
03060016	M16	60	20	27.5	174

1054X/2054X



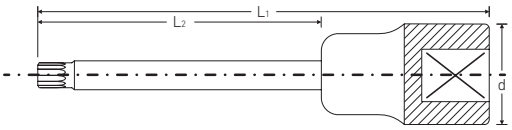
Screwdriver sockets
— special lengths
— for tri-square socket head screws XZN®
— 1/2" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 2324

Product no.	Size	L1 mm	L2 mm	∅ (d) mm	g
03160808	M8	80	42	22.7	86
03161208	M8	120	82	22.7	104
03161110	M10	110	72	22.7	130
03161112	M12	110	70	23.7	168

3054X



Screwdriver sockets
— extra long design
— for tri-square socket head screws XZN®
— 1/2" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 2324

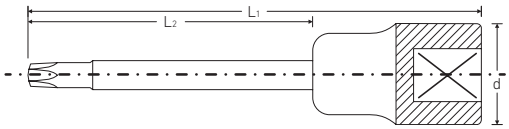


Product no.	Size	L1 mm	L2 mm	∅ (d) mm	g
03261408	M8	140	102	22.7	109
03261410	M10	140	102	22.7	142
03261412	M12	140	102	22.7	160
03261414	M14	140	100	23.7	225

1054TX/2054TX



Screwdriver sockets
— extra long design
— for recessed TORX® screws
— 1/2" internal square drive
— Chrome Alloy Steel, chrome-plated



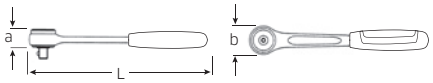
Product no.	Size	L_1 mm	L_2 mm	∅ (d) mm	g
03131070	T70	107	67	23.7	201
03131230	T30	120	82	22.7	99
03131240	T40	120	82	22.7	100
03131245	T45	120	82	22.7	100
03131440	T40	140	102	22.7	110
03131445	T45	140	102	22.7	111
03131450	T50	140	102	22.7	140
03131455	T55	140	102	22.7	159
03131460	T60	140	100	23.7	221

3004



Screwdriver socket
— for tri-square socket head screws XZN®
— 1/2" internal square drive

Product no.	Size	L mm	g
03230012	M12	55	71



1/2" drive tools
Explanation of table headings

L = Overall length
a = Head height (excluding square drive)
b = Head width

512-2K



Ratchet
— 1/2" external square drive
— reversible
— 36 teeth
— with 2-component handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠°	g
13111010	1/2	265.5	22.5	41	10 °	600

512QR N80



QuickRelease fine-tooth ratchet
— 1/2" external square drive
— reversible
— 80 teeth
— for working in tight spaces, with a working angle of just 4.5°
— with QuickRelease safety lock
— with 2-component handle
— FOD-preventive due to screwless design
— DBGM (German Federal Utility Model)
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠°	g
13111120	1/2	265.5	23	41	4.5 °	572

512SG-QR N



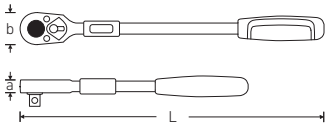
QuickRelease fine-tooth ratchet
— 1/2" external square drive
— reversible
— 80 teeth
— for working in tight spaces, with a working angle of just 4.5°
— with QuickRelease safety lock
— with steel handle
— FOD-preventive due to screwless design
— DBGM (German Federal Utility Model)
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠°	g
13111030	1/2	265.5	22.5	41	4.5 °	654

516



Telescopic ratchet
- — 1/2" external square drive
- — reversible
- — 36 teeth
- — increased torque when the handle is extended
- — can be locked in at any one of five lengths: 410, 465, 520, 575, 630 mm
- — convenient, easy and fast length adjustment via a rocker switch
- — compact size when unextended
- — ideal for mobile tool storage
- — durable thanks to maintenance-free slide bearing and a secure limit stop
- — with 2-component handle
- — a convenient alternative to the wheel brace
- — Chrome Alloy Steel, chrome-plated
- — DIN 3122 / ISO 3315



Product no.	■ "	L mm	a mm	b mm	∠°	g
13160000	1/2	410-630	22.5	40	10 °	1100

515-2K



Fine-tooth ratchet
- — 1/2" external square drive
- — reversible
- — 60 teeth
- — for working in tight spaces, with a working angle of just 6°
- — with 2-component handle
- — Chrome Alloy Steel, chrome-plated
- — DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠°	g
13231011	1/2	265	26.2	40	6 °	515

517QR



QuickRelease fine-tooth flexible ratchet
- — 1/2" external square drive
- — reversible
- — 80 teeth
- — for working in tight spaces, with a working angle of just 4.5°
- — with QuickRelease safety lock
- — handle can be swivelled up and down by approximately 90°, locking in the following positions: straight, 30° up, 60° up, 30° down
- — lock releases at the push of a button
- — with 2-component handle
- — FOD-preventive due to screwless design
- — DBGM (German Federal Utility Model)
- — Chrome Alloy Steel, chrome-plated
- — DIN 3122 / ISO 3315

Product no.	■ "	L mm	a mm	b mm	∠°	g
13261010	1/2	416	22	41	4.5 °	920

522



Ratchet adaptor
- — 1/2" external square drive
- — reversible
- — 20 teeth
- — Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	b mm	∠°	g
13140000	1/2	67.5	40	18 °	316

532-2K



Ratchets
- — 1/2" external square drive
- — reversible
- — 36 teeth
- — with longer lever length for better power transmission
- — simple loosening of jammed screws
- — with 2-component handle
- — Chrome Alloy Steel, chrome-plated
- — DIN 3120 / ISO 1174

Product no.	■ "	L mm	a mm	b mm	∠°	g
13121010	1/2	380	22.5	41	10 °	821
13121020	1/2	497	37.6	41	10 °	980
13121030	1/2	612	37.6	41	10 °	1140

5040

Ratchet spare parts set
— for version with chrome-plated PHILLIPS® screw
Contains 3-pieces:
1 drive piece; 1 screw; 1 spring washer

Product no.	for model	■ "	Content pcs.	g
96190800	504	1/2	3	75

5040N

Ratchet spare parts set
— for version with black, manganese-phosphate TORX® screw
Contains 3-pieces:
1 drive piece; 1 screw; 1 spring washer

Product no.	for model	■ "	Content pcs.	g
96190801	504	1/2	3	80

5120G

Ratchet spare parts set
Contains 8-pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 retaining screws

Product no.	for model	■ "	Content pcs.	g
19040030	512G, 532G	1/2	8	120

5120QR

Ratchet spare parts set
Contains 8-pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 retaining screws

Product no.	for model	■ "	Content pcs.	g
19040020	512QR, 512SG-QR, 725QR/20	1/2	8	118

5120QR N

Ratchet spare parts set
— for ratchet No. 512QR N version with screws
Contains 8-pieces:
1 pinion; 1 pawl; 1 lever with pin; 1 ball; 2 compression springs; 2 retaining screws

Product no.	for model	■ "	Content pcs.	g
19040040	512QR N	1/2	8	140

5120QR N80

Ratchet spare parts set
Contains 9-pieces:
1 pinion; 1 locking disc; 1 switching lever; 1 pin; 1 ball; 1 compression spring; 2 circlips; 1 cover plate

Product no.	for model	■ "	Content pcs.	g
19042020	512QR N80, 512SG-QR N, 517QR	1/2	9	120

504



Flexible handles
— with 2-component handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	Size	■ "	L mm	g
13061015	15	1/2	397	735
13061018	18	1/2	469	831
13061024	24	1/2	610	1051

506



T-handle
— Chrome Alloy Steel, chrome-plated
— DIN 3122 / ISO 3315

Product no.	■ "	L mm	g
13070000	1/2	300	436

506QR



QuickRelease T-handle
— with QuickRelease safety lock
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— patented
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	g
13071000	1/2	300	470

506/1QR



QuickRelease T-handle
- with QuickRelease safety lock
- with **recessed** button
- with ball locking function
- Chrome Alloy Steel, chrome-plated
- DIN 3123 / ISO 3316

Product no.	■ "	L mm	g
13071500	1/2	300	460

501



Speeder brace
- working radius: 105 mm
- Chrome Alloy Steel, chrome-plated
- DIN 3122 / ISO 3315

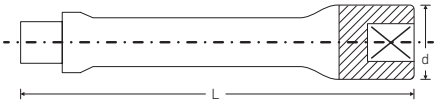
Product no.	■ "	L mm	g
13100010	1/2	456	620

501QR



QuickRelease speeder brace
- with QuickRelease safety lock
- with ball locking function
- with steel handle
- separate palm piece can be attached for greater axial force transmission
- working radius: 105 mm
- Chrome Alloy Steel, chrome-plated
- patented
- DIN 3122 / ISO 3315

Product no.	■ "	L mm	g
13100005	1/2	456	872



1/2" extensions
Explanation of table headings

L = Overall length
d = Diameter of head

503QR



QuickRelease extensions
- with QuickRelease safety lock
- with **recessed** button
- with ball locking function
- Chrome Alloy Steel, chrome-plated
- DIN 3123 / ISO 3316

Product no.	Size	■ "	L mm	∅ (d) mm	g
13011502	2	1/2	51	23	90
13011503	3	1/2	76	23	123
13011505	5	1/2	130	23	187
13011510	10	1/2	255	23	341

509



Extensions
- Chrome Alloy Steel, chrome-plated
- DIN 3123 / ISO 3316 6

Product no.	Size	■ "	L mm	∅ (d) mm	g
13010001	2	1/2	52	23	88
13010004	3	1/2	75	23.2	120
13010002	5	1/2	130	23.2	191
13010003	10	1/2	255	23.2	341

509QR



QuickRelease extensions
- with QuickRelease safety lock
- with ball locking function
- Chrome Alloy Steel, chrome-plated
- DIN 3123 / ISO 3316

Product no.	Size	■ "	L mm	∅ (d) mm	g
13011001	2	1/2	52	23	90
13011004	3	1/2	75	23	123
13011002	5	1/2	130	23	187
13011003	10	1/2	255	23	341

509W



Wobble-Drive extensions
— swivel angle up to 15° to each side
— max. torque: 200 N·m
— Chrome Alloy Steel, chrome-plated

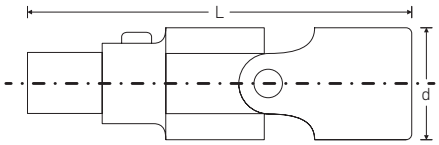
Product no.	Size	■ "	L mm	∅ (d) mm	g
13010005	2	1/2	52	23	80
13010006	3	1/2	75	23.2	120
13010007	5	1/2	130	23.2	191
13010008	10	1/2	255	23.2	341

3505



Special extension
— cranked
— Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	∅ (d) mm	g
13210001	1/2	120	23.2	186



1/2" universal joints
Explanation of table headings

L = Overall length
d = Diameter of head

510



Universal joint
— Chrome Alloy Steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
13020000	1/2	71	25	146

510QR



QuickRelease universal joint
— with QuickRelease safety lock
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— patented
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
13021000	1/2	80	25	155

510/1QR



QuickRelease universal joint
— with QuickRelease safety lock
— with **recessed** button
— with ball locking function
— Chrome Alloy Steel, chrome-plated
— patented
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
13021500	1/2	80	25	158

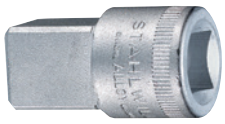
513



Square drive adaptor
— 1/2 to 3/8"
— max. torque: 202 N·m
— HPQ® high performance steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
13030002	3/8	35	22.7	60

514



Square drive adaptor
— 1/2 to 3/4"
— HPQ® high performance steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
13030005	3/4	44	25	110

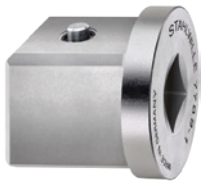
514M



Square drive adaptor
— 1/2 to 3/4"
— Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	g
13030010	3/4	22	40

7789-1



Square drive adaptor
— 1/2 to 1"
— HPQ® high performance steel, chrome-plated

Product no.	■ "	L mm	∅ (d) mm	g
58522089	1	35	36.5	175

50/10-12918



Socket set on clip rail
— bi-hex with AS-Drive profile
— HPQ® high performance steel, chrome-plated
— secure fixing to plastic clips with ball locking function
— can be mounted on a wall or perforated wall/panel
— DIN 3124 / ISO 2725-1 / DIN EN 3709 / ASME B 107.5M

Contains 10-pieces:
10 sockets with bi-hex 1/2" **No. 50**: 10; 13; 14; 17; 19; 22; 24; 27; 30; 32 mm
+ socket clip rail **No. 12918/10**

Product no.	Content pcs.	g
96053010	10	1120

12918/10



Socket clip rail
— for organised and safe storage of sockets and accessories
— secure fixing to plastic clips with ball locking function
— can be mounted on a wall or perforated wall/panel

Product no.	■ "	L mm	Retaining clips	g
80500005	1/2	307	10	80

12916/12917/12918



Socket clip rail set
— for organised and safe storage of sockets and accessories
— secure fixing to plastic clips with ball locking function
— attachments can be combined with each other
— can be mounted on a wall or perforated wall/panel

Contains 3-pieces:
1 socket clip rail 1/4" (6.3 mm)
1 socket clip rail 3/8" (10 mm)
1 socket clip rail 1/2" (12.5 mm)

Product no.	L mm	Retaining clips	Content pcs.	g
96003010	315	30	3	190

50/12/3



Socket set

— in a sturdy, stackable ABS plastic box

Contains 15-pieces:

12 sockets with bi-hex 1/2" **No. 50**: 10; 13; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm

1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm

2 extensions 1/2" **No. 509**: L. 130; 255 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031435	1/2	415	227	67	15	3300

50/16/6



Socket set

— in a sturdy, stackable ABS plastic box

Contains 22-pieces:

16 sockets with bi-hex 1/2" **No. 50**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm

1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm

3 extensions 1/2" **No. 509**: L. 75; 130; 255 mm

1 T-handle 1/2" **No. 506**: L. 300 mm

1 universal joint 1/2" **No. 510**: L. 71 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031447	1/2	458	254	65	22	4502

50/16/6QR



QuickRelease socket set

— in a sturdy, stackable ABS plastic box

Contains 22-pieces:

16 sockets with bi-hex 1/2" **No. 50**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm

1 QuickRelease fine-tooth ratchet 1/2" **No. 512QR N80**: L. 265.5 mm

3 QuickRelease extensions 1/2" **No. 509QR**: L. 75; 130; 255 mm

1 QuickRelease T-handle 1/2" **No. 506QR**: L. 300 mm

1 QuickRelease universal joint 1/2" **No. 510QR**: L. 80 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031446	1/2	458	254	65	22	4502

50a/17/6



Socket set

— in a sturdy, stackable ABS plastic box

Contains 23-pieces:

17 sockets with bi-hex 1/2" **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 1/2" **No. 512-2K**: L. 265.5 mm

3 extensions 1/2" **No. 509**: L. 52; 130; 255 mm

1 T-handle 1/2" **No. 506**: L. 300 mm

1 universal joint 1/2" **No. 510**: L. 71 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96035125	1/2	458	254	65	23	4640

50/22/6



Socket set

— in a sturdy, stackable ABS plastic box

Contains 28-pieces:

22 sockets with bi-hex 1/2" **No. 50**: 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 26; 27; 28; 30; 32 mm

1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm

3 extensions 1/2" **No. 509**: L. 75; 130; 255 mm

1 T-handle 1/2" **No. 506**: L. 300 mm

1 universal joint 1/2" **No. 510**: L. 71 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031407	1/2	458	254	65	28	5076

50ma/39/6N



Socket set

— in a sturdy steel case

Contains 45-pieces:

22 sockets with bi-hex 1/2" **No. 50**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 30; 32; 34 mm

17 sockets with bi-hex 1/2" **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 1/2" **No. 512-2K**: L. 265.5 mm

3 extensions 1/2" **No. 509**: L. 75; 130; 255 mm

1 T-handle 1/2" **No. 506**: L. 300 mm

1 universal joint 1/2" **No. 510**: L. 71 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96030140	1/2	540	292	53	45	9020

50ma/39/6QR



QuickRelease socket set

— in a sturdy steel case

Contains 45-pieces:

22 sockets with bi-hex 1/2" **No. 50**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 30; 32; 34 mm

17 sockets with bi-hex 1/2" **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 QuickRelease fine-tooth ratchet 1/2" **No. 512QR N80**: L. 265.5 mm

3 QuickRelease extensions 1/2" **No. 509QR**: L. 75; 130; 255 mm

1 QuickRelease T-handle 1/2" **No. 506QR**: L. 300 mm

1 QuickRelease universal joint 1/2" **No. 510QR**: L. 80 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96030107	1/2	540	290	55	45	8890

50/43/7N



Socket set

— in a sturdy steel case

Contains 50-pieces:

23 sockets with bi-hex 1/2" **No. 50**: 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 30; 32; 34 mm

7 sockets long, with bi-hex 1/2" **No. 51**: 13; 17; 18; 19; 22; 24; 27 mm

2 sockets long, with bi-hex and rubber insert 1/2" **No. 51**: 16 mm-5/8"; 20.8 mm-13/16"

6 uniflex sockets with hex 1/2" **No. 53**: 10; 13; 16; 17; 18; 19 mm

5 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 8; 10 mm

1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm

3 extensions 1/2" **No. 509**: L. 75; 130; 255 mm

1 flexible handle 1/2" **No. 504**: L. 397 mm

1 T-handle 1/2" **No. 506**: L. 300 mm

1 universal joint 1/2" **No. 510**: L. 71 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031136	1/2	540	290	53	50	11000

50/43/7QR



QuickRelease socket set
— in a sturdy steel case
Contains 50-pieces:
23 sockets with bi-hex 1/2" **No. 50**: 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 30; 32; 34 mm
7 sockets long, with bi-hex 1/2" **No. 51**: 13; 17; 18; 19; 22; 24; 27 mm
2 sockets long, with bi-hex and rubber insert 1/2" **No. 51**: 16 mm-5/8"; 20.8 mm-3/16"
6 uniflex sockets with hex 1/2" **No. 53**: 10; 13; 16; 17; 18; 19 mm
5 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 8; 10 mm
1 QuickRelease fine-tooth ratchet 1/2" **No. 512QR N80**: L. 265.5 mm
3 QuickRelease extensions 1/2" **No. 509QR**: L. 75; 130; 255 mm
1 flexible handle 1/2" **No. 504**: L. 397 mm
1 QuickRelease T-handle 1/2" **No. 506QR**: L. 300 mm
1 QuickRelease universal joint 1/2" **No. 510QR**: L. 80 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031236	1/2	540	292	53	50	11115

50/54/25/6



Socket set
— in a sturdy, stackable ABS plastic box
Contains 31-pieces:
17 sockets with bi-hex 1/2" **No. 50**: 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm
8 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 7; 8; 10; 12; 14 mm
1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm
3 extensions 1/2" **No. 509**: L. 75; 130; 255 mm
1 T-handle 1/2" **No. 506**: L. 300 mm
1 universal joint 1/2" **No. 510**: L. 71 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031439	1/2	458	254	65	31	5270

50/54/25/6QR



QuickRelease socket set
— in a sturdy, stackable ABS plastic box
Contains 31-pieces:
17 sockets with bi-hex 1/2" **No. 50**: 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm
8 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 7; 8; 10; 12; 14 mm
1 QuickRelease fine-tooth ratchet 1/2" **No. 512QR N80**: L. 265.5 mm
3 QuickRelease extensions 1/2" **No. 509QR**: L. 75; 130; 255 mm
1 QuickRelease T-handle 1/2" **No. 506QR**: L. 300 mm
1 QuickRelease universal joint 1/2" **No. 510QR**: L. 80 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031440	1/2	458	254	65	31	5270

52/12/3



Socket set
— in a sturdy, stackable ABS plastic box
Contains 15-pieces:
12 sockets with hex 1/2" **No. 52**: 10; 13; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm
1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm
2 extensions 1/2" **No. 509**: L. 130; 255 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031436	1/2	415	227	67	15	3412

52/16/6



Socket set

— in a sturdy, stackable ABS plastic box

Contains 22-pieces:

16 sockets with hex 1/2" **No. 52**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm

1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm

3 extensions 1/2" **No. 509**: L. 75; 130; 255 mm

1 T-handle 1/2" **No. 506**: L. 300 mm

1 universal joint 1/2" **No. 510**: L. 71 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031448	1/2	458	254	65	22	4586

52/22/6



Socket set

— in a sturdy, stackable ABS plastic box

Contains 28-pieces:

22 sockets with hex 1/2" **No. 52**: 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 26; 27; 28; 30; 32 mm

1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm

3 extensions 1/2" **No. 509**: L. 75; 130; 255 mm

1 T-handle 1/2" **No. 506**: L. 300 mm

1 universal joint 1/2" **No. 510**: L. 71 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031409	1/2	458	254	65	28	5138

52/16/6QR



QuickRelease socket set

— in a sturdy, stackable ABS plastic box

Contains 22-pieces:

16 sockets with hex 1/2" **No. 52**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm

1 QuickRelease fine-tooth ratchet 1/2" **No. 512QR N80**: L. 265.5 mm

3 QuickRelease extensions 1/2" **No. 509QR**: L. 75; 130; 255 mm

1 QuickRelease T-handle 1/2" **No. 506QR**: L. 300 mm

1 QuickRelease universal joint 1/2" **No. 510QR**: L. 80 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031480	1/2	458	254	65	22	4606

52/54/25/6



Socket set

— in a sturdy, stackable ABS plastic box

Contains 31-pieces:

17 sockets with hex 1/2" **No. 52**: 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm

8 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 7; 8; 10; 12; 14 mm

1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm

3 extensions 1/2" **No. 509**: L. 75; 130; 255 mm

1 T-handle 1/2" **No. 506**: L. 300 mm

1 universal joint 1/2" **No. 510**: L. 71mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031239	1/2	458	254	65	31	5306

52/54/25/6QR



QuickRelease socket set

— in a sturdy, stackable ABS plastic box

Contains 31-pieces:

17 sockets with hex 1/2" **No. 52**: 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm

8 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 7; 8; 10; 12; 14 mm

1 QuickRelease fine-tooth ratchet 1/2" **No. 512QR N80**: L. 265.5 mm

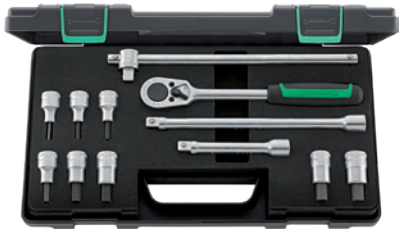
3 QuickRelease extensions 1/2" **No. 509QR**: L. 75; 130; 255 mm

1 QuickRelease T-handle 1/2" **No. 506QR**: L. 300 mm

1 QuickRelease universal joint 1/2" **No. 510QR**: L. 80 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031240	1/2	458	254	65	31	5306

54/8/4



Socket set

— in a sturdy, stackable ABS plastic box

Contains 12-pieces:

8 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 8; 10; 12; 14; 17 mm

1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm

2 extensions 1/2" **No. 509**: L. 130; 255 mm

1 T-handle 1/2" **No. 506**: L. 300 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031501	1/2	417	230	60	12	3370

876



Socket set

— in a sturdy, stackable ABS plastic box

Contains 47-pieces:

19 sockets with hex 1/2" **No. 52**: 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32; 34 mm

13 combination spanners **No. 13**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24 mm

2 sockets long, with bi-hex and rubber insert 1/2" **No. 51**: 16 mm-5/8"; 20.8 mm-13/16"

7 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 7; 8; 10; 12 mm

1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm

3 extensions 1/2" **No. 509**: L. 75; 130; 255 mm

1 T-handle 1/2" **No. 506**: L. 300 mm

1 universal joint 1/2" **No. 510**: L. 71 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96032301	1/2	483	289	83	47	7600

876TX



Socket set

— in a sturdy, stackable ABS plastic box

Contains 39-pieces:

12 sockets with hex 1/2" **No. 52**: 8; 10; 13; 16; 17; 18; 19; 21; 22; 24; 27; 30 mm

6 screwdriver sockets INHEX 1/2" **No. 54**: 5; 6; 8; 10; 12; 14 mm

7 sockets TORX® 1/2" **No. 50TX**: E10; E12; E14; E16; E18; E20; E24

9 screwdriver sockets TORX® 1/2" **No. 54TX**: T20; T25; T27; T30; T40; T45; T50; T55; T60

1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm

2 extensions 1/2" **No. 509**: L. 130; 255 mm

1 T-handle 1/2" **No. 506**: L. 300 mm

1 universal joint 1/2" **No. 510**: L. 71 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
98811909	1/2	483	289	83	39	6255

50TX/8



TORX® socket set
— for external TORX® screws
— in a sturdy, stackable ABS plastic box
Contains 8-pieces:
8 sockets TORX® 1/2" **No. 50TX**: E10; E11; E12; E14; E16; E18; E20; E24

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96033704	1/2	230	130	60	8	980

50TX/7



TORX® socket set
— for external TORX® screws
— precisely fitting foam inlay
— in cardboard packaging
Contains 7-pieces:
7 sockets TORX® 1/2" **No. 50TX**: E10; E12; E14; E16; E18; E20; E24

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96032703	1/2	307	84	40	7	623

51/8



Socket set
— in soft case with hard foam inlay
Contains 8-pieces:
8 sockets long, with bi-hex 1/2" **No. 51**: 13; 17; 19; 22; 24; 27; 30; 32 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96030212	1/2	345	190	55	8	2378

54TX/9



TORX® screwdriver socket set
— for recessed TORX® screws
— precisely fitting foam inlay
— in cardboard packaging
Contains 9-pieces:
9 screwdriver sockets TORX® 1/2" **No. 54TX**: T20; T25; T27; T30; T40; T45; T50; T55; T60

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031004	1/2	308	85	40	9	820

54TX/10



TORX® screwdriver socket set
— for recessed TORX® screws
— in a sturdy, stackable ABS plastic box
Contains 10-pieces:
10 screwdriver sockets TORX® 1/2" **No. 54TX**: T20; T25; T27; T30; T40 (2x); T45; T50; T55; T60

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96032005	1/2	230	130	60	10	1170

54/10



INHEX screwdriver socket set
— for hex socket head screws
— in a sturdy, stackable ABS plastic box
Contains 10-pieces:
10 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 7; 8; 10; 12; 14; 17; 19 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031508	1/2	230	130	60	10	1525

54/12



INHEX screwdriver socket set
— for hex socket head screws
— in a sturdy, stackable ABS plastic box
Contains 12-pieces:
10 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 7; 8; 10; 12; 14; 17; 19 mm
1 screwdriver socket INHEX 1/2" **No. 3054**: 8 mm
1 screwdriver socket INHEX 1/2" **No. 1054**: 10 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96031503	1/2 "	327	135	60	12	1894

3054X/54X/8



Screwdriver socket set
— for tri-square socket head screws XZN®
— in a sturdy, stackable ABS plastic box
Contains 8-pieces:
3 screwdriver sockets XZN® 1/2" **No. 3054X**: M8; M10; M12
5 screwdriver sockets XZN® 1/2" **No. 54X**: M6; M8; M10; M12; M14

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96033606	1/2	230	130	60	8	1288

TCS 1054/2054



INHEX screwdriver socket set
— for hex socket head screws
— safely integrated in the modular Tool Control System (TCS)
Contains 6-pieces:
3 screwdriver sockets INHEX 1/2" **No. 1054**: 8; 10; 12 mm
3 screwdriver sockets INHEX 1/2" **No. 2054**: 5; 6; 14 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838117	1/2	175	175	30	1/6	6	900

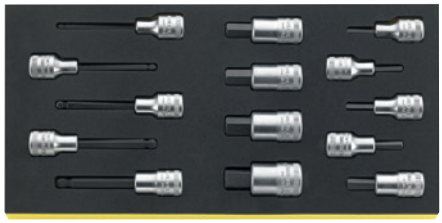
TCS 54KK/5



INHEX screwdriver socket set
— ball-ended
— for hex socket head screws
— swivel angle up to 25° to each side
— safely integrated in the modular Tool Control System (TCS)
Contains 5-pieces:
5 screwdriver sockets INHEX 1/2" **No. 54KK**: 5; 6; 7; 8; 10 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838116	1/2	175	175	30	1/6	5	505

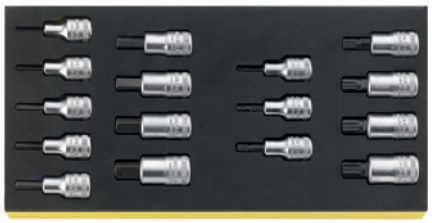
TCS 54/54KK/14



INHEX screwdriver socket set
— for hex socket head screws
— safely integrated in the modular Tool Control System (TCS)
Contains 14-pieces:
10 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 7; 8; 10; 12; 14; 17; 19 mm
4 screwdriver sockets INHEX 1/2" **No. 54KK**: 5; 6; 8; 10 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830877	1/2	350	175	30	1/3	14	1561

TCS 54/54X/16



Screwdriver socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 16-pieces:
9 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 7; 8; 10; 12; 14; 17 mm
7 screwdriver sockets XZN® 1/2" **No. 54X**: M5; M6; M8; M10; M12; M14; M16

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838762	1/2	350	175	35	1/3	16	1745

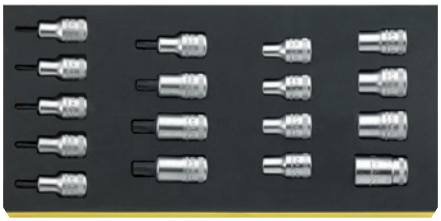
TCS 54/2309K/12506



INHEX wheel nut socket, nut spinner set
— safely integrated in the modular Tool Control System (TCS)
Contains 13-pieces:
9 screwdriver sockets INHEX 1/2" **No. 54**: 5; 6; 7; 8; 10; 12; 14; 17; 19 mm
2 IMPACT wheel nut sockets with hex 1/2" **No. 2309IMP K**: 17; 19 mm
2 nut spinners **No. 12506**: 6; 7 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830163	1/2	350	175	40	1/3	13	1830

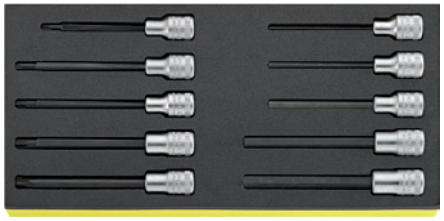
TCS 50TX/54TX/17



TORX® socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 17-pieces:
8 sockets TORX® 1/2" **No. 50TX**: E10; E11; E12; E14; E16; E18; E20; E24
9 screwdriver sockets TORX® 1/2" **No. 54TX**: T20; T25; T27; T30; T40; T45; T50; T55; T60

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838763	1/2	350	175	40	1/3	17	1415

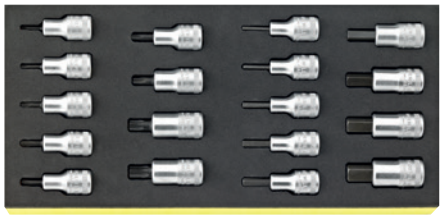
TCS 1054/2054/10



Screwdriver socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 10-pieces:
3 screwdriver sockets INHEX 1/2" **No. 1054**: 8; 10; 12 mm
2 screwdriver sockets INHEX 1/2" **No. 2054**: 5; 6 mm
3 screwdriver sockets TORX® 1/2" **No. 1054TX**: T30; T50; T55
2 screwdriver sockets TORX® 1/2" **No. 2054TX**: T40; T45

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838760	1/2	350	175	40	1/3	10	1272

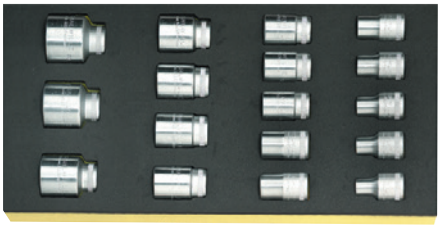
TCS 54/54TX/18



Screwdriver socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 18-pieces:
9 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 7; 8; 10; 12; 14; 17 mm
9 screwdriver sockets TORX® 1/2" **No. 54TX**: T20; T25; T27; T30; T40; T45; T50; T55; T60

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838782	1/2	350	175	40	1/3	18	1665

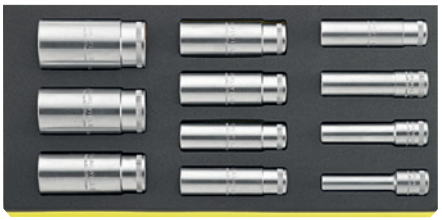
TCS 52/17



Socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 17-pieces:
17 sockets with hex 1/2" **No. 52**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838177	1/2	350	175	40	1/3	17	1605

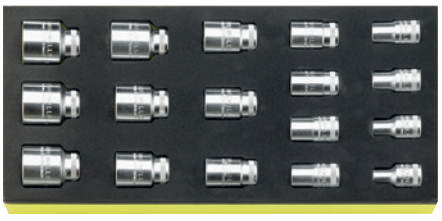
TCS 51/11



Socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 11-pieces:
11 sockets long, with bi-hex 1/2" **No. 51**: 10; 13; 15; 17; 18; 19; 22; 24; 27; 30; 32 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838776	1/2	350	175	50	1/3	11	2345

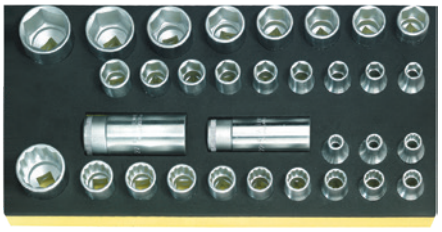
TCS 50a/17



Socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 17-pieces:
17 sockets with bi-hex 1/2" **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"

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838780	1/2	350	175	40	1/3	17	1685

TCS 50/51/52/32



Socket set

— safely integrated in the modular Tool Control System (TCS)

Contains 32-pieces:

13 sockets with bi-hex 1/2" **No. 50**: 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 30 mm

2 sockets long, with bi-hex 1/2" **No. 51**: 22; 27 mm

17 sockets with hex 1/2" **No. 52**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838191	1/2	350	175	50	1/3	32	2950

TCS 52/14/4QR



QuickRelease socket set

— safely integrated in the modular Tool Control System (TCS)

Contains 18-pieces:

14 sockets with hex 1/2" **No. 52**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 22; 24; 27; 30 mm

2 QuickRelease extensions 1/2" **No. 509QR**: L. 130; 255 mm

1 QuickRelease universal joint 1/2" **No. 510QR**: L. 80 mm

1 QuickRelease fine-tooth ratchet 1/2" **No. 512QR N80**: L. 265.5 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830352	1/2	350	175	50	1/3	18	2510

TCS 50/52/30/6QR



QuickRelease socket set

— safely integrated in the modular Tool Control System (TCS)

Contains 36-pieces:

11 sockets with bi-hex 1/2" **No. 50**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 30 mm

13 sockets with hex 1/2" **No. 52**: 12; 13; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32; 34 mm

6 screwdriver sockets INHEX 1/2" **No. 54**: 5; 6; 7; 8; 10; 12 mm

1 QuickRelease T-handle 1/2" **No. 506QR**: L. 300 mm

2 QuickRelease extensions 1/2" **No. 509QR**: L. 130; 255 mm

1 QuickRelease universal joint 1/2" **No. 510QR**: L. 71 mm

1 QuickRelease fine-tooth ratchet 1/2" **No. 512QR N80**: L. 265.5 mm

1 square drive adaptor **No. 513**: 1/2 to 3/8"

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830360	1/2	350	350	70	2/3	36	4604

TCS 50/52/30/6 MF



Socket set

— safely integrated in the modular Tool Control System (TCS)

Contains 36-pieces:

11 sockets with bi-hex 1/2" **No. 50**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 30 mm

13 sockets with hex 1/2" **No. 52**: 12; 13; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32; 34 mm

6 screwdriver sockets INHEX 1/2" **No. 54**: 5; 6; 7; 8; 10; 12 mm

1 T-handle 1/2" **No. 506**: L. 300 mm

2 extensions 1/2" **No. 509**: L. 130; 255 mm

1 universal joint 1/2" **No. 510**: L. 71 mm

1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm

1 square drive adaptor **No. 513**: 1/2 to 3/8"

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830354	1/2	350	350	70	2/3	36	4604

TCS 52/14/4



Socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 18-pieces:
14 sockets with hex 1/2" **No. 52**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 22; 24; 27; 30 mm
2 extensions 1/2" **No. 509**: L. 130; 255 mm
1 universal joint 1/2" **No. 510**: L. 71 mm
1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838781	1/2	350	175	50	1/3	18	2510

TCS 512/6



Socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 6-pieces:
1 T-handle 1/2" **No. 506**: L. 300 mm
3 extensions 1/2" **No. 509**: L. 52; 130; 255 mm
1 universal joint 1/2" **No. 510**: L. 71 mm
1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96838175	1/2	350	175	35	1/3	6	1845

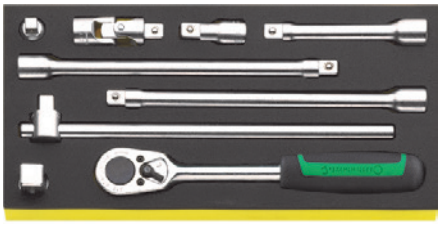
TCS 512/6QR



QuickRelease socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 6-pieces:
1 QuickRelease T-handle 1/2" **No. 506QR**: L. 300 mm
3 QuickRelease extensions 1/2" **No. 509QR**: L. 52; 130; 255 mm
1 QuickRelease universal joint 1/2" **No. 510QR**: L. 80 mm
1 QuickRelease fine-tooth ratchet 1/2" **No. 512QR N80**: L. 265.5 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830362	1/2	350	175	35	1/3	6	1845

TCS 512/9



Socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 9-pieces:
1 T-handle 1/2" **No. 506**: L. 300 mm
4 extensions 1/2" **No. 509**: L. 52; 130; 255 (2x) mm
1 universal joint 1/2" **No. 510**: L. 71 mm
1 ratchet 1/2" **No. 512-2K**: L. 265.5 mm
1 square drive adaptor **No. 513**: 1/2 to 3/8"
1 square drive adaptor **No. 514**: 1/2 to 3/4"

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830603	1/2	350	175	40	1/3	9	2364

TCS 512/9QR



QuickRelease socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 9-pieces:
1 QuickRelease T-handle 1/2" **No. 506QR**: L. 300 mm
4 QuickRelease extensions 1/2" **No. 509QR**: L. 52; 130; 255 (2x) mm
1 QuickRelease universal joint 1/2" **No. 510QR**: L. 80 mm
1 QuickRelease fine-tooth ratchet 1/2" **No. 512QR N80**: L. 265.5 mm
1 square drive adaptor **No. 513**: 1/2 to 3/8"
1 square drive adaptor **No. 514**: 1/2 to 3/4"

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830363	1/2	350	175	40	1/3	9	2364

TCS 40/52/6QR



QuickRelease socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 38-pieces:
11 sockets with hex 1/4" **No. 40**: 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
17 sockets with hex 1/2" **No. 52**: 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm
2 QuickRelease extensions 1/4" **No. 405QR**: L. 54; 150 mm
1 QuickRelease fine-tooth ratchet 1/4" **No. 415QR N**: L. 117 mm
1 adaptor, hand-operated 1/4" **No. 3116**: L. 25 mm
2 QuickRelease extensions 1/2" **No. 509QR**: L. 130; 255 mm
1 QuickRelease fine-tooth ratchet 1/2" **No. 512QR N80**: L. 265.5 mm
1 square drive adaptor **No. 410**: 1/4 to 1/2"
1 square drive adaptor **No. 513**: 1/2 to 3/8"
1 bit holder 1/4" **No. 412**: L. 25 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830264	1/4, 1/2	350	350	55	2/3	38	3890

TCS 54/54TX/44/44K/44KTX/40



Screwdriver socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 40-pieces:
9 screwdriver sockets TORX® 1/2" **No. 54TX**: T20; T25; T27; T30; T40; T45; T50; T55; T60
10 screwdriver sockets INHEX 1/2" **No. 54**: 4; 5; 6; 7; 8; 10; 12; 14; 17; 19 mm
2 screwdriver sockets TORX® 1/2" **No. 1054TX**: T30; T50
2 screwdriver sockets INHEX 1/2" **No. 1054/2054**: 6; 8 mm
4 screwdriver sockets INHEX 1/4" **No. 44**: 3; 4; 5; 6 mm
8 screwdriver sockets TORX® 1/4" **No. 44KTX**: T8; T10; T15; T20; T25; T27; T30; T40
5 screwdriver sockets INHEX 1/4" **No. 44K**: 3; 4; 5; 6; 8 mm

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830274	1/4, 1/2	350	350	50	2/3	40	3340

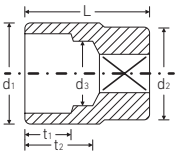
QuickRelease
The QuickRelease safety lock prevents unintentional loss of insert tools. These click securely into place, and are only released again at the push of a button for a quick tool change.

3/4" SOCKETRY.

55



Sockets
- hex with AS-Drive profile
- 3/4" internal square drive
- HPQ® high performance steel, chrome-plated
- DIN 3124 / ISO 2725-1 / ASME B 107.5 M



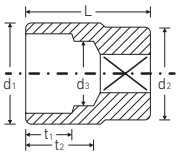
Product no.	mm	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
05010019	19	50	28.5	34.7	17	16	26	183
05010021	21	50	31	34.7	18	16	26	190
05010022	22	51	32	34.7	19	17	25.2	199
05010024	24	51	34	34.7	21	18.5	24.6	200
05010027	27	54	38.5	38	24	20	26.8	263
05010030	30	58	42	38	27	21	33.6	313
05010032	32	58	44.5	38	29	22	33	326
05010033	33	60	46	40	30	22	34.7	372
05010034	34	60	47	40	31	24	34.4	363
05010036	36	60	49.5	40	33	24	33.9	386
05010038	38	64	52	40	35	30	37.3	429
05010041 *	41	67	55.5	40	33	30	37.5	510
05010046 *	46	73	61	40	33	34	43.5	600
05010050 *	50	80	66	40	33	34	48.5	769
05010055 *	55	80	72	45	33	36	49.5	970
05010060 *	60	80	78	45	33	40	50.5	1025

* AS-Drive and HPQ® high performance steel up to 38 mm, chrome-plated

55a



Sockets
- bi-hex with AS-Drive profile
- 3/4" internal square drive
- HPQ® high performance steel, chrome-plated
- SAE AS 954-E (test values) / ASME B 107.1



Product no.	"	L mm	d1 mm	d2 mm	d3 mm	t1 mm	t2 mm	g
05410040	3/4	50	28.5	34.7	18.6	16	26	176
05410042	13/16	51	31	34.7	19.4	16.5	25.1	190
05410044	7/8	51	33	34.7	21	18	24.5	240
05410046	15/16	51	34	34.7	22.5	18.5	24.2	248
05410048	1	52	37	38	24	20	24.8	251
05410050	1 1/16	54	38.5	38	26	20	26.2	265
05410052	1 1/8	57	41	38	27.5	20	32.5	297
05410056	1 1/4	58	44.5	38	30.5	22	32.6	339
05410058	1 5/16	59	46.5	40	32.1	24	33.1	348
05410060	1 3/8	59	48.5	40	33.7	24	32.7	375
05410062	1 7/16	60	50	40	35.3	27	33.2	395
05410064	1 1/2	64	52	40.5	36.8	30	36.8	415
05410066 *	1 5/8	67	56	40	33	30	37.5	469
05410067 *	1 11/16	70	58	40	33	32	40.5	524
05410068 *	1 3/4	70	59.5	40	33	32	40.5	524
05410069 *	1 13/16	73	61.5	40	33	34	43.5	605
05410070 *	1 7/8	76	63.5	40	33	34	45	660
05410072 *	2	80	67	40	33	34	48.5	757

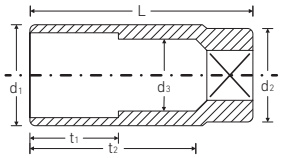
* AS-Drive and HPQ® high performance steel up to 1 1/2", chrome-plated



56



Sockets
- long version
- hex with AS-Drive profile
- 3/4" internal square drive
- HPQ® high performance steel, chrome-plated
- DIN 3124 / ISO 2725-1 / ASME B 107.5 M



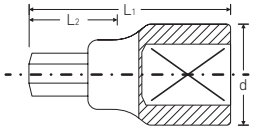
Product no.	mm	L mm	d_1 mm	d_2 mm	d_3 mm	t_1 mm	t_2 mm	g
05020022	22	90	32	34.7	19	40	64.2	374
05020024	24	90	34	34.7	21	40	63.6	341
05020027	27	90	38.5	38	24	40	62.8	443
05020030	30	90	42	38	27	40	65.6	477
05020032	32	90	44.5	38	29	40	65	526
05020034	34	90	47	40	31	40	64.4	562
05020036	36	90	49.5	40	33	40	63.9	570
05020041 *	41	90	55.5	40	38	40	58.5	714

* AS-Drive and HPQ® high performance steel up to 36 mm, chrome-plated

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INHEX screwdriver sockets
- for hex socket head screws
- 3/4" internal square drive
- Chrome Alloy Steel, chrome-plated
- DIN 7422

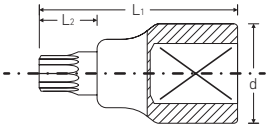


Product no.	mm	L_1 mm	L_2 mm	∅ (d) mm	g
05050014	14	80	25	34.7	272
05050017	17	80	25	34.7	311
05050019	19	80	25	34.7	346
05050022	22	80	25	40	510

59X



Screwdriver sockets
- for tri-square socket head screws XZN®
- 3/4" internal square drive
- Chrome Alloy Steel, chrome-plated

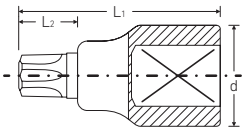


Product no.	Size	L_1 mm	L_2 mm	∅ (d) mm	g
05060014	M14	90	35	34.7	281
05060016	M16	80	25	34.7	302
05060018	M18	100	45	34.7	375

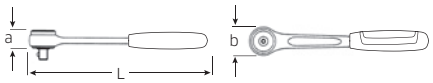
59TX



Screwdriver sockets
- for recessed TORX® screws
- 3/4" internal square drive
- Chrome Alloy Steel, chrome-plated



Product no.	Size	L_1 mm	L_2 mm	∅ (d) mm	g
05100060	T60	80	25	34.7	260
05100070	T70	80	25	34.7	285
05100080	T80	80	25	34.7	300
05100090	T90	80	25	34.7	331
05100100	T100	80	25	40	474



3/4" drive tools

Explanation of table headings

L = Overall length
a = Head height (excluding square drive)
b = Head width

552



Ratchet head

— 3/4" external square drive
— reversible
— 36 teeth
— with QuickRelease safety lock
— to be used with handle No. 558
— Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	a mm	b mm	∠°	g
15110000	3/4	165	55	70	10 °	1670

563



Ratchet adaptor

— 3/4" external square drive
— reversible
— 44 teeth
— Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	b mm	∠°	g
15140000	3/4	105.5	63	8.2 °	1257

5520

Ratchet spare parts set

Contains 7-pieces:

1 pinion; 1 locking disc; 1 switching lever; 1 ball; 1 compression spring; 2 retaining screws

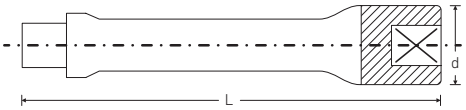
Product no.	for model	■ "	Content pcs.	g
19050000	552	3/4	7	536

559



Extensions

— Chrome Alloy Steel, chrome-plated
— DIN 3123 / ISO 3316



Product no.	Size	■ "	L mm	∅ (d) mm	g
15010003	4	3/4	95	35	369
15010001	8	3/4	200	35	705
15010002	16	3/4	400	35	1255

554



Flexible head

— with QuickRelease safety lock
— to be used with handle No. 558
— Chrome Alloy Steel, chrome-plated

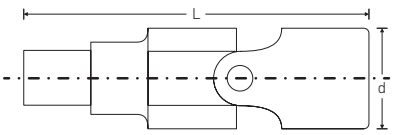
Product no.	■ "	L mm	∅ (d) mm	g
15060000	3/4	132	40	795

561



Universal joint

— Chrome Alloy Steel, chrome-plated
— DIN 3123 / ISO 3316



Product no.	■ "	L mm	∅ (d) mm	g
15020000	3/4	109	40	566

556



Sliding head
— can be used as a T-handle in combination with handle No. 558
— Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	g
15070000	3/4	61.5	318

558

Handle
— can be used as a T-handle in combination with sliding head No. 556
— Chrome Alloy Steel, chrome-plated

Product no.	for model	L mm	∅ (d) mm	g
15170000	552; 554; 556	510	20	1259

568



Square drive adaptor
— 3/4 to 1/2"
— max. torque: 512 N·m
— HPQ® high performance steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
15030003	1/2	55	34.7	203

569



Square drive adaptor
— 3/4 to 1"
— HPQ® high performance steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
15030006	1	61	34.7	315

55/9/6N



Socket set
— in a sturdy steel case
Contains 15-pieces:
9 sockets with hex 3/4" **No. 55**: 32; 34; 36; 38; 41; 46; 50; 55; 60 mm
1 ratchet head 3/4" **No. 552**: L. 165 mm
2 extensions 3/4" **No. 559**: L. 200; 400 mm
1 flexible head 3/4" **No. 554**: L. 132 mm
1 sliding head 3/4" **No. 556**: L. 61.5 mm
1 handle 3/4" **No. 558**: L. 510 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96050103	3/4	584	240	90	15	15731

55/10/6



Socket set
— in a sturdy steel case
Contains 16-pieces:
10 sockets with hex 3/4" **No. 55**: 22; 24; 27; 30; 32; 34; 36; 41; 46; 50 mm
1 ratchet head 3/4" **No. 552**: L. 165 mm
2 extensions 3/4" **No. 559**: L. 200; 400 mm
1 flexible head 3/4" **No. 554**: L. 132 mm
1 sliding head 3/4" **No. 556**: L. 61.5 mm
1 handle 3/4" **No. 558**: L. 510 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96050104	3/4	580	245	90	16	13965

55a/10/5



Socket set
— in a sturdy steel case
Contains 15-pieces:
10 sockets with bi-hex 3/4" **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 head 3/4" **No. 552**: L. 165 mm
2 extensions 3/4" **No. 559**: L. 200; 400 mm
1 sliding head 3/4" **No. 556**: L. 61.5 mm
1 handle 3/4" **No. 558**: L. 510 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96054101	3/4	540	190	90	15	12620

55a/16/6



Socket set
— in a sturdy steel case
Contains 22-pieces:
16 sockets with bi-hex 3/4" **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 head 3/4" **No. 552**: L. 165 mm
2 extensions 3/4" **No. 559**: L. 200; 400 mm
1 flexible head 3/4" **No. 554**: L. 132 mm
1 sliding head 3/4" **No. 556**: L. 61.5 mm
1 handle 3/4" **No. 558**: L. 510 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96054103	3/4	538	243	93	22	16750

TCS 55/11/6



Socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 17-pieces:
11 sockets with hex 3/4" **No. 55**: 22; 24; 27; 30; 32; 34; 36; 38; 41; 46; 50 mm
1 ratchet head 3/4" **No. 552**: L. 165 mm
1 sliding head 3/4" **No. 556**: L. 61.5 mm
1 handle 3/4" **No. 558**: L. 510 mm
2 extensions 3/4" **No. 559**: L. 200; 400 mm
1 square drive adaptor **No. 568**: 3/4 to 1/2"

Product no.	■ "	L mm	W mm	H mm	Size	Content pcs.	g
96830221	3/4	350	530	60	3/3	17	10100



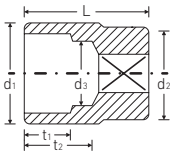
Anti-Slip-Drive
The special AS-Drive profile makes high force transmission to the flats of screws and bolts possible without damaging them. This also prevents stripping of the screw head.

1" SOCKETRY.

60



Sockets
— bi-hex with AS-Drive profile
— 1" internal square drive
— HPQ® high performance steel, chrome-plated
— DIN 3124 / ISO 2725-1



Product no.	⌀ mm	L mm	d_1 mm	d_2 mm	d_3 mm	t_1 mm	t_2 mm	g
06010030	30	65	42.5	43	27	20	33.1	371
06010032	32	67	45	43	29	24	34.6	374
06010034	34	67	47	43	31	24	34	398
06010036	36	67	49.5	48	33	24	33.4	493
06010041 *	41	70	55.5	48	36	30	37.5	530
06010046 *	46	75	61	49	40	32	43.5	622
06010050 *	50	80	66	48	43	34	47.5	707
06010055 *	55	85	72	48	49	36	49.5	920
06010060 *	60	90	78	48	53	40	56.5	992

* AS-Drive and HPQ® high performance steel up to 36 mm, chrome-plated

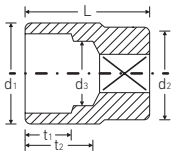
MADE IN CRONENBERG
MADE IN GERMANY

For more than 160 years, the STAHLWILLE brand has been synonymous with premium tools. From its foundation by Eduard Wille to the present day, our goal has always been the same: to manufacture tools that set the standard and that are 'Made in Germany'.

60



Sockets
— hex
— 1" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 3124

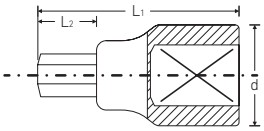


Product no.	⌀ mm	L mm	d_1 mm	d_2 mm	d_3 mm	t_1 mm	t_2 mm	g
06010065	65	105	87	60	58	40	68.5	1917
06010070	70	110	94	60	63	42	72.5	2210
06010075	75	115	101	60	68	45	78.5	2525
06010080	80	120	108	60	73	48	83.5	2865

64



INHEX screwdriver sockets
— for hex socket head screws
— 1" internal square drive
— Chrome Alloy Steel, chrome-plated
— DIN 7422



Product no.	◉ mm	L_1 mm	L_2 mm	∅ (d) mm	g
06050014	14	85	25	43	390
06050017	17	85	25	43	417
06050019	19	85	25	43	445
06050022	22	90	25	48	661
06050024	24	90	25	48	719
06050027	27	90	25	49	827

884



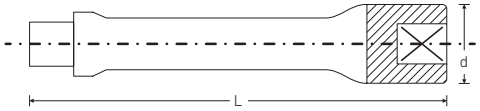
Flexible head
— with QuickRelease safety lock
— to be used with handle No. 888
— Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	∅ (d) mm	g
16060000	1	195	48	1848

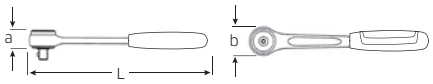
859



Extensions
— Chrome Alloy Steel, chrome-plated
— DIN 3123 / ISO 3316



Product no.	Size	■ "	L mm	∅ (d) mm	g
16010001	8	1	200	43	1004
16010002	16	1	410	43	1794



1" drive tools
Explanation of table headings

L = Overall length
a = Head height (excluding square drive)
b = Head width

882



Ratchet head
— 1" external square drive
— reversible
— 36 teeth
— with QuickRelease safety lock
— to be used with handle No. 888
— Chrome Alloy Steel, chrome-plated



Product no.	■ "	L mm	a mm	b mm	∠ °	g
16110000	1	185	60	70	10 °	1984

888



Handle
— can be used as a T-handle in combination with sliding head No. 886
— Chrome Alloy Steel, chrome-plated

Product no.	for model	■ "	L mm	∅ (d) mm	g
16170000	882; 884; 886	1	700	28	3337

8820

Ratchet spare parts set
Contains 7-pieces:
1 pinion; 1 locking disc; 1 switching lever; 1 ball; 1 compression spring; 2 retaining screws

Product no.	for model	■ "	Content pcs.	g
19070000	882	1	7	609

866



Square drive adaptor
— 1 to $^3/_4$"
— max. torque: 1.412 N·m
— HPQ® high performance steel, chrome-plated
— DIN 3123 / ISO 3316

Product no.	■ "	L mm	∅ (d) mm	g
16030005	$^3/_4$	70	43	347

886



Sliding head
— can be used as a T-handle in combination with handle No. 888
— Chrome Alloy Steel, chrome-plated

Product no.	■ "	L mm	g
16070000	1	80	616

60/6/6/882



Socket set
— in a sturdy steel case
Contains 12-pieces:
6 sockets with bi-hex 1" **No. 60**: 36; 41; 46; 50; 55; 60 mm
1 ratchet head 1" **No. 882**: L. 185 mm
2 extensions 1" **No. 859**: L. 200; 410 mm
1 flexible head 1" **No. 884**: L. 195 mm
1 sliding head 1" **No. 886**: L. 80 mm
1 handle 1" **No. 888**: L. 700 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96060101	1	810	193	95	12	19720

60/8/6/882



Socket set
— in a sturdy steel case
Contains 14-pieces:
4 sockets with bi-hex 1" **No. 60**: 46; 50; 55; 60 mm
4 sockets with hex 1" **No. 60**: 65; 70; 75; 80 mm
1 ratchet head 1" **No. 882**: L. 185 mm
2 extensions 1" **No. 859**: L. 200; 410 mm
1 flexible head 1" **No. 884**: L. 195 mm
1 sliding head 1" **No. 886**: L. 80 mm
1 handle 1" **No. 888**: L. 700 mm

Product no.	■ "	L mm	W mm	H mm	Content pcs.	g
96060103	1	830	222	127	14	30000

ADAPTOR SETS.

5513



Square drive adaptor set
— in a sturdy, stackable ABS plastic box
Contains 5-pieces:
1 square drive adaptor **No. 409**: 1/4 to 3/8"
1 square drive adaptor **No. 431**: 3/8 to 1/4"
1 square drive adaptor **No. 432**: 3/8 to 1/2"
1 square drive adaptor **No. 513**: 1/2 to 3/8"
1 square drive adaptor **No. 514**: 1/2 to 3/4"

Product no.	Content pcs.	g
96121003	5	648

409M/432M/514M/3



Square drive adaptor set
Contains 3-pieces:
1 square drive adaptor **No. 409M**: 1/4 to 3/8"
1 square drive adaptor **No. 432M**: 3/8 to 1/2"
1 square drive adaptor **No. 514M**: 1/2 to 3/4"

Product no.	Content pcs.	g
96121002	3	120

SOCKET ACCESSORIES.

5100



Rubber insert
— for 20.8 mm (No. 46; 51; 51S)

Product no.	L mm	Internal diameter mm	External diameter mm	Hardness	g
09010001	25	11	20	30 Shore	6

12916/10, 12917/10, 12918/10



Socket clip rails

— for organised and safe storage of sockets and accessories
— secure fixing to plastic clips with ball locking function
— can be mounted on a wall or perforated wall/panel

Product no.	■ "	L mm	Retaining clips	g
80400003	1/4	255	10	46
80450003	3/8	255	10	54
80500005	1/2	307	10	80

12916/12917/12918



Socket clip rail set

— for organised and safe storage of sockets and accessories
— secure fixing to plastic clips with ball locking function
— attachments can be combined with each other
— can be mounted on a wall or perforated wall/panel

Contains 3-pieces:

1 socket clip rail 1/4" (6.3 mm)
1 socket clip rail 3/8" (10 mm)
1 socket clip rail 1/2" (12.5 mm)

Product no.	L mm	Retaining clips	Content pcs.	g
96003010	315	30	3	190



CONTROL CABINET KEYS.

172

VBW



Profi-Key

— universal keys for all shut-off and locking systems, including new buildings, utility locks and heating ventilation
— can also be used for door handle and window handle mounts
— functions: stepped square drive 6-10 mm; internal square drive 7-8 mm; internal triangle drive 9, 10 mm; ventilation square drive 5 mm
— also for PH size 2 and slot 7 mm
— with chain and bit adaptor 6.3 mm (1/4")
— made from diecast zinc
— supplied in clear packaging with enclosed description

Product no.		g
87172190		93

172

VBW



Control cabinet key SuBMaster 9 in 1

— universal key for all locking systems in electrical engineering, gas and water supplies, air conditioning and ventilation technology, industry and much more
— functions: internal square drive 5, 6, 7-8, 9-10 mm; internal triangle drive 7, 8-9, 10-11 mm; deadlock 3-5 mm; crescent 6 mm
— with carabiner on the chain and 6.3 mm (1/4") bit adaptor
— made from diecast zinc
— supplied in clear packaging with enclosed description

Product no.		g
87172100		175

173

VBW



Control cabinet key

— universal key for all locking systems in electrical engineering, gas and water supplies, air conditioning and ventilation technology, industry and much more
— functions: internal square drive 5, 6, 7-8 mm; internal triangle drive 7, 9 mm; double cam 3-5 mm
— also for PH size 2 and slot 7 mm
— with chain and bit adaptor 6.3 mm (1/4")
— made from diecast zinc
— supplied in clear packaging with enclosed description

Product no.		g
87173071		87

EMPTY BOXES AND INLAYS.

■ "	Product no.	Model	L	B	H	Case	Inlays
1/4	**96010120**	40D/40TX/44KTX/32/6QR	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 40D/40TX/44KTX/32/6QR 83828793 Inlay 40D/40TX/44KTX/32/6 QR 83820024
1/4, 3/8, 1/2	**98811908**	89TX	417	230	60	Case 40/7 KN 81251014	Soft foam inlay for lid 89TX KN 83828870 Inlay 89TX KN 83092013
1/4	**98819801**	88TX	325	135	60	Case 45/1 KN 81261011	Soft foam inlay for lid 88 TX KN 83828847 Inlay 88TX KN 83022017
1/4, 1/2	**96013702**	86TX	483	289	83	Case 50/6 KN 81271019	Soft foam inlay for lid 86TX KN 83828896 Inlay 86TX KN 83012002
1/4	**96010107**	40ma/25/8QR	325	135	55	Case 45/1 KN 81261011	Soft foam inlay for lid 40MA/25/8QR KN 83828901 Inlay 40MA/25/8QR KN 83012006
1/4	**96011162**	40ma/25/8	325	135	60	Case 45/1 KN 81261011	Soft foam inlay for lid 40MA/25/8 KN 83828832
1/4	**96015205**	40aD/30/7QR	420	230	60	Case 40/7 KN 81251014	Soft foam inlay for lid 40AD/30/7QR KN SG 83828854 Inlay 40AD/30/7QR KN SG 83012112
1/4	**96015208**	40aD/12/7QR	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 40AD/12/7QR KN SG 83828807 Inlay 40AD/12/7QR KN SG 83012116
1/4	**96016302**	40aD/9/4	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 40AD/9/4 KN 83828808 Inlay 40A/9/4 KN 83012013
1/4	**96015107**	40a/9/4	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 40/A/9/4 KN 83828806 Inlay 40A/9/4 KN 83012013
1/4	**96011181**	40/44/17/5QR	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 40/44/17/5 QR KN 83828801 Inlay 40/44/17/5QR KN 83022084
1/4	**96011113**	40/44/17/5	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 40/44/17/5 KN 83828795 Inlay 40/44/17/5 KN 83012081
1/4	**96011182**	40/24/6QR	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 40/24/6 QR KN 83828802 Inlay 40/24/6QR KN 83012083
1/4	**96011138**	40/24/6	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 40/24/6 KN 83828799 Inlay 40/24/6 KN 83012082
1/4	**96011134**	40/23/7	325	135	60	Case 45/1 KN 81261011	Soft foam inlay for lid 40/23/7 KN 83828961 Inlay 40/23/7 KN 83012017
1/4	**96011137**	40/23/6QR	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 40/23/6QR KN 83828959 Inlay 40/23/6QR KN 83011015
1/4	**96011136**	40/23/6	230	130	60	Case 40/9 KN 81251019	Inlay 40/23/6 KN 83012014
1/4	**96011180**	40/13/6QR	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 40/13/6 QR KN 83828800 Inlay 40/13/6QR KN 83012182
1/4	**96011124**	40/13/6	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 40/13/6 KN 83828797 Inlay 40/13/6 KN 83012080

■ "	Product no.	Model	L	B	H	Case	Inlays
1/4	**96011119**	40/9/4	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 40/9/4 KN 83828796 Inlay 40/9/4 KN 83013012
1/4	**96016304**	40a/40aD/16/2	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 40A/40AD/16/2 83828969 Inlay 40A/40AD/16/2 61010562
1/4, 3/8	**96012047**	40/45/36/12	420	230	60	Case 40/7 KN 81251014	Soft foam inlay for lid 40/45/36/12 KN 83828853 Inlay 40/45/36/12 KN 83012010
1/4, 1/2	**96011160**	40/52/27/11	458	254	65	Case 50/4 KN 81271034	Soft foam inlay for lid 40/52/27/11 KN 83828872 Inlay 40/52/27/11/1 KN 83012005
1/4, 1/2	**91222607**	40/52/45/12QR	290	480	85	Case 50/6 KN 81271019	Soft foam inlay for lid 40/52/45/12 KN 83828976 Inlay 40/52/45/12 61008439
3/8	**96021236**	456/49/19/5	417	230	60	Case 40/7 KN 81251014	Soft foam inlay for lid 456/49/19/5 KN 83828858 Inlay 45/49/19/5 KN 83022021
3/8	**96023132**	456/14/5I	325	135	60	Case 45/1 KN 81261011	Soft foam inlay for lid 456/14/5 I KN 83828841 Inlay 45/14/5I KN 83022080
3/8	**96022133**	456/11/4	325	135	60	Case 45/1 KN 81261011	Soft foam inlay for lid 456/11/4 KN 83828842 Inlay 45/11/4 KN 83022013
3/8	**96020107**	45ma/28/5QR	415	230	60	Case 40/7 KN 81251014	Soft foam inlay for lid 45MA/28/5QR KN 83828955 Inlay 45MA/28/5QR KN 83022007
3/8	**96021122**	45ma/28/5	417	230	60	Case 40/7 KN 81251014	Soft foam inlay for lid 45MA/28/5 KN 83828856 Inlay 45MA/28/5 KN 83022027
3/8	**96025207**	45a/22/8QR	458	257	65	Case 50/4 KN 81271034	Soft foam inlay for lid 45A/22/8QR KN SG 83828874 Inlay 45A/22/8QR KN SG 83022112
3/8	**96025204**	45a/12/5	325	135	60	Case 45/1 KN 81261011	Soft foam inlay for lid 45A/12/5 KN 83828843 Inlay 45A/12/5 KN 83022006
3/8	**96022119**	45/49/32/5TX	417	230	60	Case 40/7 KN 81251014	Soft foam inlay for lid 45/49/32/5 TX KN 83828855 Inlay 45/49/32/5TX KN 83022009
3/8	**96021223**	45/49/19/5	417	230	60	Case 40/7 KN 81251014	Soft foam inlay for lid 45/49/19/5 KN 83828857 Inlay 45/49/19/5 KN 83022021
3/8	**96021180**	45/14/5I QR	325	135	60	Case 45/1 KN 81261011	Soft foam inlay for lid 45/14/5 I QR KN 83828838 Inlay 45/14/5I QR KN 83022081
3/8	**96024132**	45/14/5I	325	135	60	Case 45/1 KN 81261011	Soft foam inlay for lid 45/14/5 I KN 83828837 Inlay 45/14/5I KN 83022080
3/8	**96021109**	45/11/4	325	135	60	Case 45/1 KN 81261011	Soft foam inlay for lid 45/11/4 KN 83828836 Inlay 45/11/4 KN 83022013
1/2	**96031508**	54/10	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 54/10 KN 83828810 Inlay 54/10 KN 83032403

■ "	Product no.	Model	L	B	H	Case	Inlays
1/2	**96031503**	54/12	327	135	60	Case 45/1 KN 81261011	Soft foam inlay for lid 40/21/8 FIN. KN 83828884 Inlay 54/12 KN 83034409
1/2	**96032005**	54TX/10	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 54TX/10 KN 83828812 Inlay 54TX/10 KN 83032402
1/2	**96033606**	3054X/54X/8	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 3054X/54X/8 KN 83828814 Inlay 3054X/54X/8 KN 83033612
1/2	**96031136**	50/43/7N	540	290	53	Case 50/5 empty for set 81270005	Inlay 50/43/7 83031511
1/2	**98811909**	876TX	483	289	83	Case 50/6 KN 81271019	Soft foam inlay for lid 876 KN 83828900 Inlay 876TX KN 83092011
1/2	**96032301**	876	483	289	83	Case 50/6 KN 81271019	Inlay-2, 876KN top spanners 83093211 Inlay-1, 876KN bottom inlay 83093111
1/2	**96031501**	54/8/4	417	230	60	Case 40/7 KN 81251014	Soft foam inlay for lid 54/8/4 KN 83828868 Inlay 54/8/4 KN 83033413
1/2	**96031240**	52/54/25/6QR	458	254	65	Case 50/4 KN 81271034	Soft foam inlay for lid 52/54/25/6QR KN 83828958 Inlay 50/54/25/6QR KN 83032400
1/2	**96031440**	50/54/25/6QR	458	254	65	Case 50/4 KN 81271034	Soft foam inlay for lid 50/54/25/6QR KN 83828957 Inlay 50/54/25/6QR KN 83032400
1/2	**96031239**	52/54/25/6	458	254	65	Case 50/4 KN 81271034	Soft foam inlay for lid 52/54/25/6 KN 83828894 Inlay 52/54/25/6 KN 83032417
1/2	**96031439**	50/54/25/6	458	254	65	Case 50/4 KN 81271034	Soft foam inlay for lid 50/54/25/6 KN 83828895 Inlay 52/54/25/6 KN 83032417
1/2	**96031409**	52/22/6	458	254	65	Case 50/4 KN 81271034	Soft foam inlay for lid 52/22/6 KN 83828877 Inlay 50/22/6 KN 83031407
1/2	**96031480**	52/16/6QR	458	254	65	Case 50/4 KN 81271034	Soft foam inlay for lid 52/16/6QR KN 83828880 Inlay 52/16/6QR KN 83032481
1/2	**96031448**	52/16/6	458	254	65	Case 50/4 KN 81271034	Soft foam inlay for lid 52/16/6 KN 83828879 Inlay 52/16/6 KN 83032480
1/2	**96031436**	52/12/3	415	227	67	Case 50/3 KN 81271013	Soft foam inlay for lid 52/12/3 KN 83828867 Inlay 50/12/3 KN 83031412
1/2	**96030107**	50ma/39/6QR	540	290	55	Case 50/5 empty for set 81270005	Inlay 50MA/39/6QR 83031405
1/2	**96030140**	50ma/39/6N	540	292	53	Case 50/5 empty for set 81270005	Inlay 50MA/39/6 S 83031426
1/2	**96035125**	50a/17/6	458	254	65	Case 50/4 KN 81271034	Soft foam inlay for lid 50A/17/6 KN 83828882 Inlay 50A/17/6 KN 83031441
1/2	**96031236**	50/43/7QR	540	292	53	Case 50/5 empty for set 81270005	Inlay 50/43/7 83031511
1/2	**96031407**	50/22/6	458	254	65	Case 50/4 KN 81271034	Soft foam inlay for lid 50/22/6 KN 83828876 Inlay 50/22/6 KN 83031407

■ "	Product no.	Model	L	B	H	Case	Inlays
1/2	**96031446**	50/16/6QR	458	254	65	Case 50/4 KN 81271034	Soft foam inlay for lid 50/16/6QR KN 83828956
1/2	**96031447**	50/16/6	458	254	65	Case 50/4 KN 81271034	Soft foam inlay for lid 50/16/6 KN 83828878 Inlay 52/16/6 KN 83032480
1/2	**96031435**	50/12/3	415	227	67	Case 50/3 KN 81271013	Soft foam inlay for lid 50/12/3 KN 83828866 Inlay 50/12/3 KN 83031412
	96033704	50TX/8	230	130	60	Case 40/9 KN 81251019	Soft foam inlay for lid 50TX/8 KN 83828815 Inlay 50TX/8 KN 83033411
3/4	**96054103**	55a/16/6	538	243	93	Case 55/7 empty for set 81290008	Inlay 55A/16/6 PC-Inlay for socket set 83040004
3/4	**96054101**	55a/10/5	540	190	90	Case 55/6 empty for set 81290007	Inlay 55A/10/5 PC-Inlay for socket set 83040003
3/4	**96050104**	55/10/6	580	245	90	Case 55/7 empty for set 81290008	Inlay 55/10/6 PC-Inlay for socket set 83040002
3/4	**96050103**	55/9/6N	584	240	90	Case 55/7 empty for set 81290008	Inlay 55/9/6N PC-Inlay for socket set 83040001
1	**96060101**	60/6/6/882	810	193	95	Case 60/1 empty for set 81300001	
1	**96060103**	60/8/6/882	830	222	127	Case 60/2 empty for set 81300002	


STAHLWILLE
CHROME ALLOY
GERMANY

4 IMPACT tools

230 1/2" IMPACT tools

234 3/4" IMPACT tools

236 1" IMPACT tools

237 Bit adaptors, machine-operated

STAHLWILLE IMPACT TOOLS –
Concentrated power under control.

The tools in the IMPACT product range are designed for particularly heavy-duty use with IMPACT wrenches and are characterised by maximum load capacities and a long service life. The name IMPACT stands for top quality from professionals for professionals in all areas of industry and trades.

SOLID





Resilient.

IMPACT sockets are made of high quality Chrome Alloy Steel. They are stress and distortion-free and hardened in an oil bath, resulting in extremely tight tolerances.

Exact.

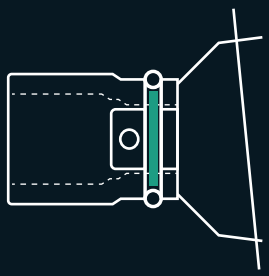
The precise dimensional accuracy due to extremely tight tolerances guarantees optimal, clearance-free transmission of forces from the IMPACT wrench to the socket as well as significantly increased durability.

Gentle.

The special IMPACT sockets with plastic sleeve enable quick wheel changes and protect sensitive alloy wheels.

Individual.

IMPACT sets in TCS inlays – for individual storage solutions, e.g. in our tool boxes, tool trolleys or workbenches.



Reliable.

All IMPACT sockets have a straight-through hole for the locking pin and a deep groove for the rubber ring. The locking pin is not under load during use.



Varied.

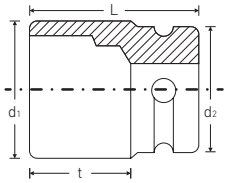
IMPACT quality is available individually or as a set. No matter what specialists choose: Extensions, bit adaptors, universal joints and sockets always fit together perfectly. Simply combine individually, connect together – and you're done.

1/2" IMPACT TOOLS.

50IMP



IMPACT sockets
— with hex
— 1/2" internal square drive
— DIN 3129 / ISO 1711-2
— Chrome Alloy Steel, gunmetal finish



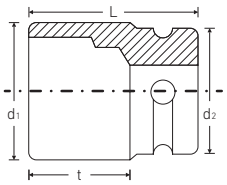
Product no.	mm	"	d_1 mm	d_2 mm	L mm	t mm	g
23010008	8	1/2	14.3	25	38	21.5	86
23010010	10	1/2	16.8	25	38	21.5	89
23010011	11	1/2	18.1	25	38	21.5	88
23010012	12	1/2	19.5	25	38	21.5	88
23010013	13	1/2	20.8	25	38	21.5	85
23010014	14	1/2	22.1	25	38	21.5	86
23010015	15	1/2	23.5	30	38	23	132
23010016	16	1/2	24.8	30	38	23	130
23010017	17	1/2	26.2	30	38	22.9	132
23010018	18	1/2	27.5	30	38	22.6	130
23010019	19	1/2	28.8	30	40	24.6	133
23010021	21	1/2	31.3	30	40	23	135
23010022	22	1/2	32.5	30	42	25	141
23010023	23	1/2	33.8	30	40	24.5	144
23010024	24	1/2	35	30	44	28	164
23010025	25	1/2	36.3	30	44	25	167
23010027	27	1/2	38.8	30	45	29	190
23010030	30	1/2	42	30	50	34	199
23010032	32	1/2	44	30	50	34	210



50D IMP



IMPACT sockets
— with bi-hex
— 1/2" internal square drive
— Chrome Alloy Steel, gunmetal finish

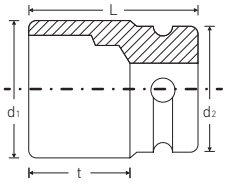


Product no.	mm	"	d_1 mm	d_2 mm	L mm	g
23011032	32	1/2	50	30	43	251
23011036	36	1/2	49	30	50	313

51IMP



IMPACT sockets
— deep version
— with hex
— 1/2" internal square drive
— Chrome Alloy Steel, gunmetal finish
— DIN 3129 / ISO 1711-2

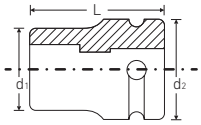


Product no.	mm	"	d_1 mm	d_2 mm	L mm	t mm	g
23020013	13	1/2	20.8	25	85	68.5	222
23020015	15	1/2	23.5	30	85	68	340
23020016	16	1/2	24.8	30	85	68	338
23020017	17	1/2	26.2	30	85	68	318
23020018	18	1/2	27.5	30	85	68	309
23020019	19	1/2	28.8	30	85	67.5	292
23020021	21	1/2	31.3	30	85	66.5	291
23020022	22	1/2	32.5	30	85	66.5	323
23020024	24	1/2	35	30	85	66	340
23020027	27	1/2	38.8	30	85	65	385

2308TX



IMPACT sockets
— for external TORX® screws
— 1/2" internal square drive
— Chrome Alloy Steel, gunmetal finish

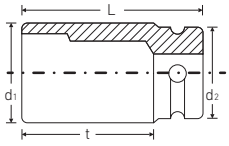


Product no.		mm	"	d_1 mm	d_2 mm	L mm	g
23080010	E10	9.4	1/2	14	25	38	67
23080012	E12	11.1	1/2	15.9	25	38	73
23080014	E14	12.9	1/2	17.7	25	38	73
23080016	E16	14.7	1/2	20	25	38	77
23080018	E18	16.6	1/2	22	30	38	115
23080020	E20	18.4	1/2	24.5	30	38	120
23080024	E24	22.1	1/2	30	30	41.2	149

2309



IMPACT sockets
— deep version, with reduced diameter
— with hex
— 1/2" internal square drive
— Chrome Alloy Steel, gunmetal finish



Product no.	mm	"	d_1 mm	d_2 mm	L mm	t mm	g
23090017	17	1/2	25.7	30	85	68	242
23090019	19	1/2	28.2	30	85	67.5	257
23090221	21	1/2	30.7	30	85	66.5	272
23090022	22	1/2	32	30	85	66.5	311

2309IMP K



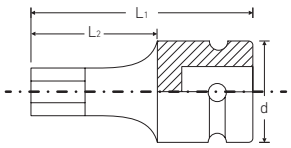
IMPACT wheel nut sockets
— with hex
— 1/2" internal square drive
— protruding plastic sleeve protects alloy wheels from accidental damage
— Chrome Alloy Steel, gunmetal finish
— DIN 3129 / ISO 1711-2

Product no.	mm	"	d mm	L mm	g
23091017	17	1/2	27	86	235
23091019	19	1/2	29	86	250
23091221	21	1/2	31	86	265

54IMP



IMPACT INHEX screwdriver sockets
— for hex socket screws
— 1/2" internal square drive
— Chrome Alloy Steel, gunmetal finish

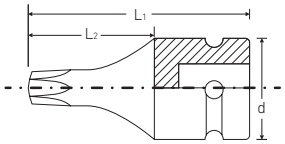


Product no.	mm	"	d mm	L_1 mm	L_2 mm	g
23050005	5	1/2	25	40	20	58
23050006	6	1/2	25	40	20	59
23050007	7	1/2	25	40	20	60
23050008	8	1/2	25	40	20	60
23050010	10	1/2	25	40	20	70
23050012	12	1/2	25	40	20	111
23050014	14	1/2	25	40	20	118
23050017	17	1/2	25	40	20	134
23050019	19	1/2	25	40	20	164

2307TX



IMPACT screwdriver sockets
— for recessed TORX® screws
— 1/2" internal square drive
— Chrome Alloy Steel, gunmetal finish

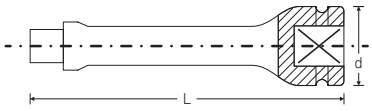


Product no.		mm	"	d mm	L_1 mm	L_2 mm	g
23070030	T30	5.5	1/2	25	40	21	57
23070040	T40	6.6	1/2	25	40	21	58
23070045	T45	7.8	1/2	25	40	21	59
23070050	T50	8.8	1/2	25	40	22	57
23070055	T55	11.2	1/2	25	40	22	61
23070060	T60	13.2	1/2	25	40	22	66

509IMP



IMPACT extensions
— 1/2" square drive
— Chrome Alloy Steel, gunmetal finish



Product no.	Size	■ "	○ "	d mm	L mm	g
33010001	2	1/2	1/2	30	52	155
33010002	5	1/2	1/2	30	130	271
33010003	10	1/2	1/2	30	255	452

510IMP



IMPACT universal joint
— 1/2" square drive
— Chrome Alloy Steel, gunmetal finish

Product no.	■ "	○ "	d mm	L mm	g
33020000	1/2	1/2	28	60	228

513IMP



IMPACT square drive adaptor
— 1/2" internal square drive
— 1/2 to 3/8"
— Chrome Alloy Steel, gunmetal finish

Product no.	■ "	○ "	d mm	L mm	g
33030002	3/8	1/2	30	37	109

514IMP



IMPACT square drive adaptor
— 1/2" internal square drive
— 1/2 to 3/4"
— Chrome Alloy Steel, gunmetal finish

Product no.	■ "	○ "	d mm	L mm	g
33030005	3/4	1/2	30	49	174

5091IMP



IMPACT rubber rings
— for IMPACT socket tools

Product no.	Size	suitable for	○ "	g
39011940	1IMP	8-14 mm; E10-E16; T30-T60	1/2	1
39012440	2IMP	15-36 mm; E18-E 24	1/2	2

5092IMP



IMPACT locking pins
— for IMPACT socket tools

Product no.	Size	suitable for	○ "	g
39022030	1IMP	8-14 mm, E10-E16, T30-T60	1/2	1
39022530	2IMP	15-36 mm, E18-E24	1/2	2

50IMP/6/2



IMPACT tool set
— in a sturdy, stackable ABS plastic box
Contains 12-pieces:
6 IMPACT sockets with hex 1/2" **No. 50IMP**: 13; 17; 19; 21; 22; 24 mm
1 IMPACT extension 1/2" **No. 509/5IMP**: L. 125 mm
1 IMPACT universal joint 1/2" **No. 510IMP**: L. 60 mm
1 IMPACT rubber ring each 1/2" **No. 5091/1IMP, 5091/2IMP**
1 IMPACT locking pin each 1/2" **No. 5092/1IMP, 5092/2IMP**

Product no.	"	Content pcs.	g
96231101	1/2	12	1810

TCS 50IMP/19/2



IMPACT tool set
— safely integrated in the modular Tool Control System (TCS)
Contains 21-pieces:
19 IMPACT sockets with hex **No. 50IMP**: 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 23; 24; 25; 27; 30; 32 mm
1 IMPACT extension 1/2" **No. 509/5IMP**: L. 125 mm
1 IMPACT universal joint 1/2" **No. 510IMP**: L. 68 mm

Product no.	"	L mm	W mm	H mm	Module size	Content pcs.	g
96838791	1/2	350	175	50	1/3	21	3055

54IMP/9



IMPACT INHEX screwdriver socket set
— in a sturdy, stackable ABS plastic box
Contains 13-pieces:
9 IMPACT screwdriver sockets INHEX 1/2" **No. 54IMP**: 5; 6; 7; 8; 10; 12; 14; 17; 19 mm
1 IMPACT rubber ring each 1/2" **No. 5091/1IMP, 5091/2IMP**
1 IMPACT locking pin each 1/2" **No. 5092/1IMP**, **5092/2IMP**

Product no.	"	Content pcs.	g
96231501	1/2	13	1208

TCS 50IMP/51IMP/19

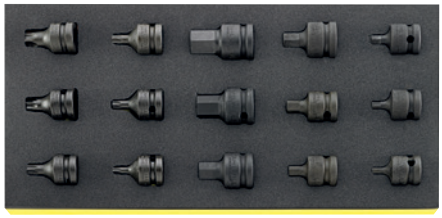


IMPACT socket set
— safely integrated in the modular Tool Control System (TCS)
Contains 19-pieces:
11 IMPACT sockets with hex 1/2" **No. 50IMP**: 10; 13; 15; 16; 17; 18; 19; 21; 22; 24; 27 mm
8 IMPACT sockets, deep, with hex 1/2" **No. 51IMP**: 13; 15; 17; 18; 19; 21; 22; 24 mm

Product no.	"	L mm	W mm	H mm	Module size	Content pcs.	g
96838777	1/2	350	175	50	1/3	19	3960



TCS 54IMP/2307TX/15



IMPACT screwdriver socket set

— safely integrated in the modular Tool Control System (TCS)

Contains 15-pieces:

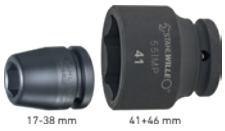
9 IMPACT screwdriver sockets INHEX 1/2" **No. 54IMP**: 5; 6; 7; 8; 10; 12; 14; 17; 19 mm

6 IMPACT screwdriver sockets TORX® 1/2" **No. 2307TX**: T30; T40; T45; T50; T55; T60

Product no.	"	L mm	W mm	H mm	Module size	Content pcs.	g
96838792	1/2	350	175	40	1/3	15	1285

3/4" IMPACT TOOLS.

55IMP



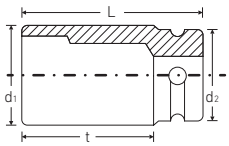
IMPACT sockets

— with hex

— 3/4" internal square drive

— Chrome Alloy Steel, gunmetal finish

— DIN 3129 / ISO 1711-2



Product no.	mm	"	d_1 mm	d_2 mm	L mm	t mm	g
25010017	17	3/4	29	44	48	23	365
25010018	18	3/4	30.5	44	48	23	345
25010019	19	3/4	32	44	48	23	359
25010021	21	3/4	35	44	50	25	375
25010022	22	3/4	36.5	44	50	25	377
25010024	24	3/4	39.5	44	50	24.5	382
25010027	27	3/4	43.5	44	51	24.5	387
25010028	28	3/4	45	44	54	27	417
25010029	29	3/4	46	44	54	26.5	425
25010030	30	3/4	47.4	44	54	26.5	438
25010032	32	3/4	49.9	44	54	26	456
25010033	33	3/4	51.5	44	54	25.5	477
25010034	34	3/4	52.4	44	54	29	490
25010036	36	3/4	54.9	44	57	32	545
25010038	38	3/4	58	44	58	33	600
25010041	41	3/4	60	44	58	34.5	500
25010046	46	3/4	67	44	63	36.5	746

56IMP



IMPACT sockets

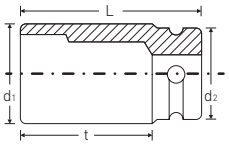
— deep version

— with hex

— 3/4" internal square drive

— Chrome Alloy Steel, gunmetal finish

— DIN 3129 / ISO 1711-2



Product no.	mm	"	d_1 mm	d_2 mm	L mm	t mm	g
25020017	17	3/4	28.2	38	90	75	783
25020019	19	3/4	30	38	90	75	780
25020021	21	3/4	35	44	100	75	895
25020022	22	3/4	36.5	44	100	75	854
25020024	24	3/4	39.5	44	100	74.5	838
25020027	27	3/4	43.5	44	100	72.5	800
25020030	30	3/4	47.4	44	100	72.5	860
25020032	32	3/4	49.9	44	100	72	922
25020034	34	3/4	52.4	44	100	71.5	983
25020036	36	3/4	54.9	44	100	71	1038
25020041	41	3/4	60	44	92	64	899
25020046	46	3/4	67	44	92	64	1340

2509



IMPACT sockets

— deep version, with reduced diameter

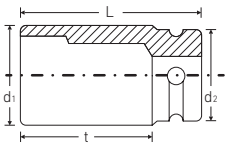
— with hex

— 3/4" internal square drive

— for bolted joints of e.g. TRILEX® wheels

— Chrome Alloy Steel, gunmetal finish

— DIN 3129 / ISO 1711-2

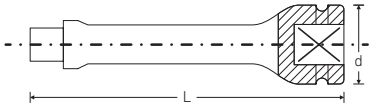


Product no.	mm	"	d_1 mm	d_2 mm	L mm	t mm	g
25090027	27	3/4	40.5	44	100	72.5	672
25090030	30	3/4	44.3	44	100	72.5	728
25090032	32	3/4	46.8	44	100	72	778
25090033	33	3/4	48	44	100	72	803

560IMP



IMPACT extensions
— 3/4" square drive
— Chrome Alloy Steel, gunmetal finish



Product no.	Size	■ "	O "	d mm	L mm	g
35010001	7	3/4	3/4	44	180	805
35010002	10	3/4	3/4	44	250	1050
35010003	13	3/4	3/4	44	330	1305

561IMP



IMPACT universal joint
— 3/4" square drive
— Chrome Alloy Steel, gunmetal finish

Product no.	■ "	O "	d mm	L mm	g
35020000	3/4	3/4	44	99	657

568IMP



IMPACT square drive adaptor
— 3/4" internal square drive
— 3/4 to 1/2"
— Chrome Alloy Steel, gunmetal finish

Product no.	■ "	O "	d mm	L mm	g
35030003	1/2	3/4	44	56	335

569IMP



IMPACT square drive adaptor
— 3/4" internal square drive
— 3/4 to 1"
— Chrome Alloy Steel, gunmetal finish

Product no.	■ "	O "	d mm	L mm	g
35030006	1	3/4	44	65	477

5591IMP



IMPACT rubber ring
— for IMPACT socket tools

Product no.	suitable for	O "	g
39013650	17-46 mm	3/4	3

5592IMP



IMPACT locking pin
— for IMPACT socket tools

Product no.	suitable for	O "	g
39023540	17-46 mm	3/4	3

MADE IN GERMANY

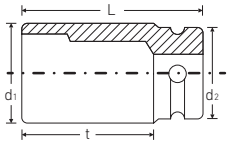
For more than 160 years, the STAHLWILLE brand has been synonymous with premium tools. From its foundation by Eduard Wille to the present day, our goal has always been the same: to manufacture tools that set the standard and that are 'Made in Germany'.

1" IMPACT TOOLS.

60IMP



IMPACT sockets
— with hex
— 1" internal square drive
— DIN 3129 / ISO 1711-2
— Chrome Alloy Steel, gunmetal finish



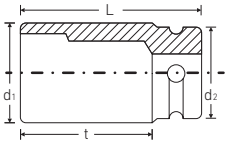
Product no.	mm	"	d_1 mm	d_2 mm	L mm	t mm	g
26010024	24	1	41.5	54	58	28	638
26010027	27	1	45	54	60	30	654
26010030	30	1	49	54	62	32	688
26010032	32	1	51.5	54	63	32	694
26010033	33	1	52.5	54	63	31.5	695
26010036	36	1	56.5	54	67	34.5	754
26010038	38	1	59	54	70	37	836
26010041	41	1	63	54	70	36.5	892
26010042	42	1	64.5	54	73	39	970
26010046	46	1	69.5	54	76	41	1106
26010050	50	1	74.5	54	82	52	1362
26010055	55	1	81	54	87	57	1669
26010060	60	1	87	54	91	61	1960
26010065	65	1	93	54	80	55	1678
26010070	70	1	98	54	85	43	1803
26010075	75	1	104	86	95	50	2674
26010080	80	1	109	86	100	55	2949



66IMP



IMPACT sockets
— deep version
— with hex
— 1" internal square drive
— Chrome Alloy Steel, gunmetal finish
— DIN 3129 / ISO 1711-2

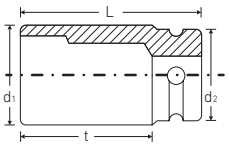


Product no.	mm	"	d_1 mm	d_2 mm	L mm	t mm	g
26020024	24	1	41.5	54	110	80	1431
26020027	27	1	45	54	110	80	1393
26020030	30	1	49	54	110	79.5	1338
26020032	32	1	51.5	54	110	79	1296
26020033	33	1	52.5	54	110	78.5	1274
26020036	36	1	56.5	54	110	78	1312
26020038	38	1	59	54	110	77	1355
26020041	41	1	63	54	110	76	1504
26020046	46	1	69.5	54	110	72	1711

2609



IMPACT sockets
— deep version, with reduced diameter
— with hex
— 1" internal square drive
— for wheel nuts
— Chrome Alloy Steel, gunmetal finish
— DIN 3129 / ISO 1711-2

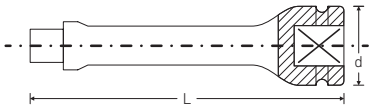


Product no.	mm	"	d_1 mm	d_2 mm	L mm	t mm	g
26090027	27	1	42.3	54	110	80	1001
26090030	30	1	46	54	110	79.5	1047
26090032	32	1	48.5	54	110	79	1015
26090033	33	1	49.8	54	110	78.5	1102

859IMP



IMPACT extensions
— 1" square drive
— Chrome Alloy Steel, gunmetal finish



Product no.	Size	■ "	O "	d mm	L mm	g
36010001	7	1	1	54	180	1361
36010002	13	1	1	54	330	2168

871IMP



IMPACT universal joint
— 1" square drive
— Chrome Alloy Steel, gunmetal finish

Product no.	■ "	O "	d mm	L mm	g
36020000	1	1	54	125	1244

866IMP



IMPACT square drive adaptor
— 1" internal square drive
— 1 to $^{3}/_{4}$"
— Chrome Alloy Steel, gunmetal finish

Product no.	■ "	O "	d mm	L mm	g
36030005	$^{3}/_{4}$	1	54	70	565

6091IMP



IMPACT rubber ring
— for IMPACT socket tools

Product no.	suitable for	O "	g
39014850	24-70 mm	1	8

6092IMP



IMPACT locking pin
— for IMPACT socket tools up to 70 mm and additional tools

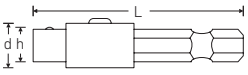
Product no.	suitable for	O "	g
39025050	24-70 mm	1	7

BIT ADAPTORS, MACHINE-OPERATED.

3116/1QR-3316/1QR



QuickRelease bit adaptors
— with external hex drive
— for machine-operated IMPACT sockets DIN 3129 / ISO 2725-2 with internal square DIN 3121 / ISO 1174-2
— with a larger diameter for improved contact with the IMPACT sockets
— Chrome Alloy Steel, gunmetal finish



Product no.	Model	■ "	mm	L mm	H mm	g
31161001	3116/1QR	$^{1}/_{4}$	E 6.3	50	11.2	18
32161001	3216/1QR	$^{3}/_{8}$	E 6.3	50	14.6	26
33161001	3316/1QR	$^{1}/_{2}$	E 6.3	50	19.2	46



5 Screwdrivers and bit tools

242 **Screwdrivers**

251 **Screwdriver sets**

258 **L-Keys**

264 **L-Key sets in TCS**

265 **Bit tools**

STAHLWILLE SCREWDRIVERS AND BIT TOOLS – The great variety.

For professionals who are consistently meeting new demands in their daily work: STAHLWILLE offers a variety of screwdrivers for the most diverse applications and drive profiles – individually or in useful sets. Bit ratchets, bit holders and screwdriver bits complete the product range.



Safe.

Our DRALL+ handle is non-slip and ergonomic. An extended grip zone protects the fingers and a hand stop prevents the tool from accidentally slipping or rolling away.

Optimised.

The DRALL+ handle with 3-components combines hard and soft elements, which give it its optimised ergonomics, maximum power transmission and increased safety during daily use.

Practical.

Always find the right tip-profile thanks to the useful marking on the handle. For use in extreme conditions, DRALL+ screwdrivers are also available with metal impact caps.



Space-saving.

Perfect for work in confined spaces. The 1/4" bit fine-tooth mini ratchet with steel handle impresses with its slim design and special 80-tooth mechanism that allows a working angle of only 4.5°.

MADE IN CRONENBERG
MADE IN GERMANY

5

Fitting.

STAHLWILLE also offers screwdriver bits with different drive profiles – Made in Germany. Special hardening processes and high performance alloy steels guarantee a long service life.

Compact.

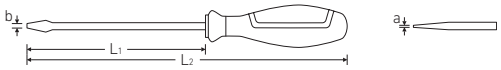
Stored in the practical soft case or in the robust plastic box, users have all the important bits, sockets and the drive tool right at hand.

SCREWDRIVERS.

4620



Slotted screwdrivers DRALL+
- for slotted screws
- black tip
- 3-component handle with laser marking
- Chrome Alloy Steel, matt chrome-plated
- DIN ISO 2380-1 / DIN ISO 2380-2 / DIN 5264

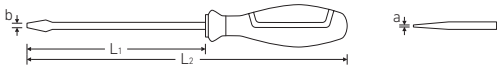


Product no.	Size	a mm	b mm	L_1 mm	L_2 mm	g
46203035	1	0.6	3.5	75	160	25
46203040	2	0.8	4	100	185	34
46203055	3	1.0	5.5	125	240	79
46203065	4	1.2	6.5	150	265	109
46203080	5	1.6	8	175	300	136
46203100	6	1.6	10	200	325	163
46203120	7	2.0	12	250	375	215

4621



Slotted screwdrivers DRALL+
- for slotted screws
- parallel blades
- black tip
- 3-component handle with laser marking
- Chrome Alloy Steel, matt chrome-plated
- blades according to VSM (Swiss Standard)

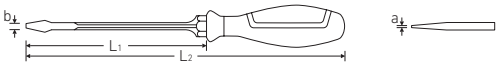


Product no.	Size	a mm	b mm	L_1 mm	L_2 mm	g
46213025	0	0.4	2.5	80	165	27
46213035	1	0.5	3.5	90	175	26
46213040	2	0.6	4	100	185	34
46213055	3	0.8	5.5	120	235	78
46213065	4	1.0	6.5	140	255	96
46213080	5	1.2	8	160	275	117

4622



Slotted screwdrivers DRALL+
- with hex shank profile
- for slotted screws
- black tip
- 3-component handle with laser marking
- Chrome Alloy Steel, matt chrome-plated
- DIN ISO 2380-1 / DIN ISO 2380-2 / DIN 5264

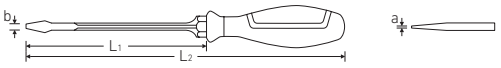


Product no.	Size	a mm	b mm	L_1 mm	L_2 mm	⬢ mm	g
46223555	1	1.0	5.5	100	215	8	85
46223565	2	1.2	6.5	125	240	10	100
46223580	3	1.2	8	150	275	13	159
46223500	4	1.6	10	175	300	13	174
46223520	5	2.0	12	200	325	13	240
46223540	6	2.5	14	250	375	13	310

4622SK



Slotted screwdrivers DRALL+
- with impact cap
- with hex shank profile
- for slotted screws
- black tip
- with 3-component handle
- Chrome Alloy Steel, matt chrome-plated
- DIN ISO 8764



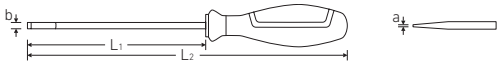
Product no.	Size	a mm	b mm	L_1 mm	L_2 mm	⬢ mm	g
46223440	1	0.8	4	90	195	6	50
46223355	2	1.0	5.5	100	215	8	106
46223365	3	1.2	6.5	125	240	10	135
46223208	4	1.2	8	150	275	13	191
46223210	5	1.6	10	175	300	13	226
46223212	6	2.0	12	200	325	13	267
46223314	7	2.5	14	250	375	13	340

4628



Electrician's slotted screwdrivers DRALL+

— for slotted screws
— black tip
— 3-component handle with laser marking
— Chrome Alloy Steel, matt chrome-plated
— DIN ISO 2380-1 / DIN ISO 2380-2 / DIN 5264



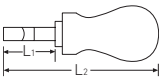
Product no.	Size	a mm	b mm	L_1 mm	L_2 mm	g
46283025	1	0.4	2.5	60	145	20
46283035	2	0.6	3.5	75	160	40
46283040	4	0.8	4	125	210	36
46283055	5	1.0	5.5	150	265	92
46283135	3	0.6	3.5	100	185	41
46283155	6	1.0	5.5	200	315	102

4724



Slotted screwdrivers DRALL®

— short version
— for slotted screws
— black tip
— Chrome Alloy Steel, matt chrome-plated
— DIN ISO 2380-1 / DIN ISO 2380-2 / DIN 5264



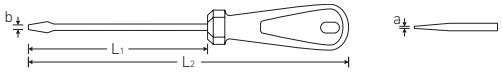
Product no.	Size	a mm	b mm	L_1 mm	L_2 mm	g
47241045	1	0.6	3.5	25	80	34
47241060	2	1.0	5.5	25	80	32
47241080	3	1.2	8	25	80	39

4820



Slotted screwdrivers 3K DRALL®

— for slotted screws
— black tip
— 3-component handle with non-slip fibre coating and hanging hole
— Chrome Alloy Steel, matt chrome-plated
— DIN 5264 / ISO 2380



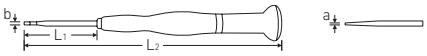
Product no.	a mm	b mm	L_1 mm	L_2 mm	g
48201035	0.6	3.5	75	170	63
48201040	0.8	4	100	195	32
48202055	1.0	5.5	125	220	58
48201065	1.2	6.5	150	265	100
48201080	1.6	8	175	290	120
48201100	1.6	10	200	315	158
48202100	2.0	12	250	375	218

4751



Electronic slotted screwdrivers

— for slotted screws
— rotating cap with ergonomic recess
— narrow, practical, fast rotating handle
— with laser marking



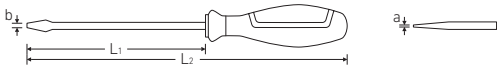
Product no.	Size	a mm	b mm	L_1 mm	L_2 mm	g
47513001	1	0.16	0.8	40	140	12
47513002	2	0.18	1	40	140	12
47513003	3	0.25	1.2	40	140	12
47513004	4	0.3	1.5	40	140	12
47513005	5	0.3	1.8	60	160	12
47513006	6	0.4	2	60	160	12
47513007	7	0.4	2.5	75	175	12
47513008	8	0.5	3	75	175	14

TOOLS THAT
... inspire

10503



Slotted screwdriver DRALL+
- long version, for adjustment work
- for slotted screws
- black tip
- 3-component handle with laser marking
- Chrome Alloy Steel, matt chrome-plated
- DIN 2380

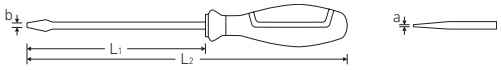


Product no.	a mm	b mm	L_1 mm	L_2 mm	g
73213101	0.8	5	250	365	100

10506



Slotted screwdriver DRALL+
- long version, for adjustment work
- for slotted screws
- black tip
- 3-component handle with laser marking
- Chrome Alloy Steel, matt chrome-plated
- DIN 2380

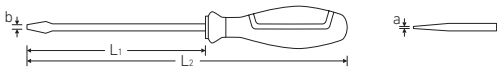


Product no.	a mm	b mm	L_1 mm	L_2 mm	g
73013001	0.8	4	300	380	48

10518



Slotted screwdriver DRALL+
- long version, for adjustment work
- for slotted screws
- black tip
- 3-component handle with laser marking
- Chrome Alloy Steel, matt chrome-plated
- DIN 2380

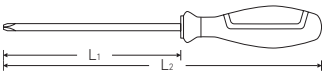


Product no.	a mm	b mm	L_1 mm	L_2 mm	g
73213102	1.0	5.5	410	525	159

4630



PH cross-head screwdrivers DRALL+
- for PHILLIPS® screws
- black tip
- 3-component handle with laser marking
- Chrome Alloy Steel, matt chrome-plated
- DIN ISO 8764

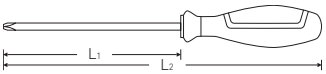


Product no.	Size	L_1 mm	L_2 mm	g
46303000	PH0	60	145	20
46303001	PH1	80	185	35
46303002	PH2	100	215	90
46303003	PH3	150	275	146

4631



PH cross-head screwdrivers DRALL+
- long version
- for PHILLIPS® screws
- black tip
- 3-component handle with laser marking
- Chrome Alloy Steel, matt chrome-plated
- DIN ISO 8764

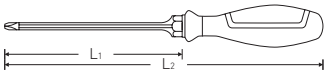


Product no.	Size	L_1 mm	L_2 mm	g
46313001	PH1	250	355	110
46313002	PH2	250	365	122

4632



PH cross-head screwdrivers DRALL+
- with hex shank profile
- for PHILLIPS® screws
- black tip
- 3-component handle with laser marking
- Chrome Alloy Steel, matt chrome-plated
- DIN ISO 8764

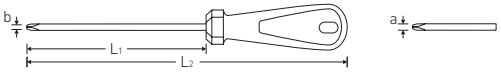


Product no.	Size	L_1 mm	L_2 mm	⬣ mm	g
46323301	PH1	80	185	6	45
46323302	PH2	100	215	10	100
46323303	PH3	150	275	13	170
46323304	PH4	200	325	13	237

4830



PH cross-head screwdrivers 3K DRALL®
- for PHILLIPS® screws
- black tip
- 3-component handle with non-slip fibre coating and hanging hole
- Chrome Alloy Steel, matt chrome-plated
- DIN 5262 / ISO 8764

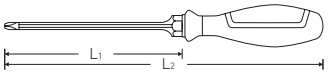


Product no.	Size	L_1 mm	L_2 mm	g
48301000	PH0	60	155	28
48301001	PH1	80	175	50
48301002	PH2	100	215	70
48301003	PH3	150	275	126
48301004	PH4	200	325	251

4632SK



PH cross-head screwdrivers DRALL+
- with impact cap
- with hex shank profile
- for PHILLIPS® screws
- black tip
- with 3-component handle
- Chrome Alloy Steel, matt chrome-plated
- DIN ISO 8764

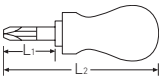


Product no.	Size	L_1 mm	L_2 mm	⬣ mm	g
46323201	PH1	85	190	6	58
46323202	PH2	100	215	10	120
46323203	PH3	150	275	13	194

4734



PH cross-head screwdrivers DRALL®
- short version
- for PHILLIPS® screws
- black tip
- Chrome Alloy Steel, matt chrome-plated
- DIN ISO 8764



Product no.	Size	L_1 mm	L_2 mm	g
47341001	PH1	25	80	27
47341002	PH2	25	80	31

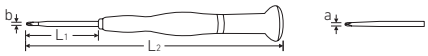
DRALL+
Our DRALL+ handle is non-slip and ergonomic. An extended grip zone protects the fingers and a hand stop prevents the tool from accidentally slipping or rolling away.

4752



Electronic PH cross-head screwdrivers

— for PHILLIPS® screws
— rotating cap with ergonomic recess
— narrow, practical, fast rotating handle
— with laser marking
— DIN ISO 2380



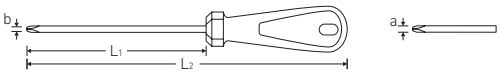
Product no.	Size	Ø mm	L_1 mm	L_2 mm	g
47523010	PH00	2.5	40	140	12
47523020	PH0	3	60	160	14
47523001	PH1	4.5	80	180	24

4840



PZ cross-head screwdrivers 3K DRALL®

— for POZIDRIV® screws
— black tip
— 3-component handle with non-slip fibre coating and hanging hole
— Chrome Alloy Steel, matt chrome-plated
— DIN 5262 / ISO 8764



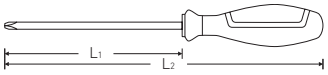
Product no.	Size	L_1 mm	L_2 mm	g
48401001	PZ1	80	175	33
48401002	PZ2	100	215	70

4640



PZ cross-head screwdrivers DRALL+

— for POZIDRIV® screws
— black tip
— 3-component handle with laser marking
— Chrome Alloy Steel, matt chrome-plated
— DIN ISO 8764



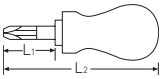
Product no.	Size	L_1 mm	L_2 mm	g
46403000	PZ0	60	145	35
46403001	PZ1	80	185	44
46403002	PZ2	100	215	89
46403003	PZ3	150	275	145

4744

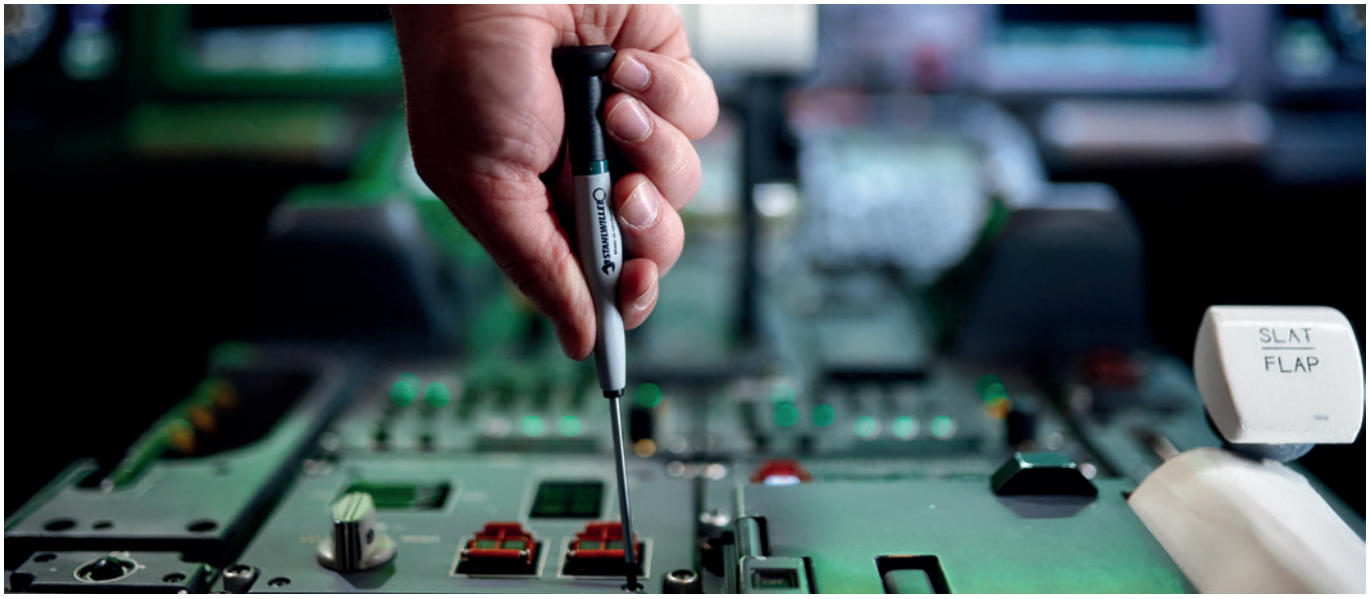


PZ cross-head screwdrivers DRALL®

— short version
— for POZIDRIV® screws
— black tip
— Chrome Alloy Steel, matt chrome-plated
— DIN ISO 8764



Product no.	Size	L_1 mm	L_2 mm	g
47441001	PZ1	25	80	28
47441002	PZ2	25	80	34

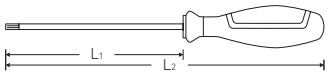


4650



TORX® screwdrivers DRALL+

— for recessed TORX® screws
— black tip
— 3-component handle with laser marking
— Chrome Alloy Steel, matt chrome-plated



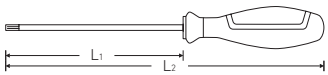
Product no.	Size	L_1 mm	L_2 mm	g
46503005	T5	60	145	30
46503006	T6	60	145	35
46503007	T7	60	145	35
46503008	T8	60	145	33
46503009	T9	60	145	35
46503010	T10	80	165	35
46503015	T15	80	165	38
46503020	T20	100	205	50
46503025	T25	100	205	50
46503027	T27	115	230	90
46503030	T30	115	230	90
46503040	T40	115	240	131
46503045	T45	130	255	136

4650L



TORX® screwdrivers DRALL+

— long version
— for recessed TORX® screws
— black tip
— 3-component handle with laser marking
— Chrome Alloy Steel, matt chrome-plated



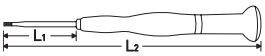
Product no.	Size	L_1 mm	L_2 mm	g
46503115	T15	250	335	45
46503120	T20	250	355	180
46503125	T25	250	355	180
46503130	T30	250	365	125

4754



Electronic TORX® screwdrivers

— for recessed TORX® screws
— rotating cap with ergonomic recess
— narrow, practical, fast rotating handle
— with laser marking



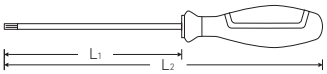
Product no.	Size	L_1 mm	L_2 mm	g
47540004	T4	50	150	17
47540005	T5	50	150	17
47540006	T6	50	150	17
47540007	T7	50	150	17
47540008	T8	60	160	19
47540009	T9	60	160	19
47540010	T10	60	160	22
47540015	T15	80	180	22

4656



TORX® Tamper Resistant screwdrivers DRALL+

— for recessed TORX® screws
— with hole in the drive tip (TORX® Tamper Resistant)
— black tip
— 3-component handle with laser marking
— Chrome Alloy Steel, matt chrome-plated



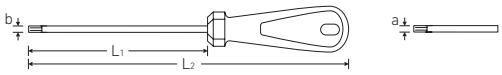
Product no.	Size	L_1 mm	L_2 mm	g
46563008	T8	60	145	35
46563009	T9	60	145	35
46563010	T10	80	165	39
46563015	T15	80	165	39
46563020	T20	100	205	42
46563025	T25	100	205	50
46563027	T27	115	230	90
46563030	T30	115	230	90
46563040	T40	115	240	120
46563045	T45	130	255	118

4856



TORX® Tamper Resistant screwdrivers 3K DRALL®

— for recessed TORX® screws
— with hollow tip (TORX® Tamper Resistant)
— black tip
— 3-component handle with non-slip fibre coating and hanging hole
— Chrome Alloy Steel, matt chrome-plated



Product no.	Size	L1 mm	L2 mm	g
48560006 *	T6	50	145	45
48560007	T7	50	145	37
48560008	T8	60	155	39
48560009	T9	60	155	50
48560010	T10	80	175	26
48560015	T15	80	175	52
48560020	T20	100	215	32
48560025	T25	100	215	55
48560027	T27	115	230	58
48560030	T30	115	230	63
48560040	T40	115	240	86

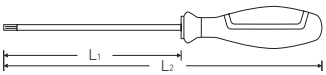
* without hole

4636



TORQ-SET® screwdrivers DRALL+

— for TORQ-SET® screws
— with hex shaft
— black tip
— 3-component handle with laser marking
— Chrome Alloy Steel, matt chrome-plated



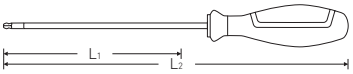
Product no.	Size	"	L1 mm	L2 mm	g
46363002	TQ2	1/4	100	215	92
46363004	TQ4	1/4	100	215	93
46363006	TQ6	1/4	100	215	93
46363008	TQ8	1/4	100	215	93
46363010	TQ10	1/4	100	215	93
46363016	TQ1/4"	5/16	150	265	138

10507N KK



Hex ball-ended screwdrivers DRALL+

— for hex socket screws
— pivoting angle of up to 25° to each side
— black tip
— 3-component handle with laser marking
— Chrome Alloy Steel, matt chrome-plated



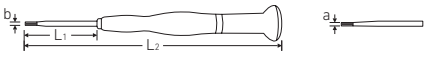
Product no.	mm	L1 mm	L2 mm	g
73103003	3	300	385	56
73103005	5	300	415	132

4753

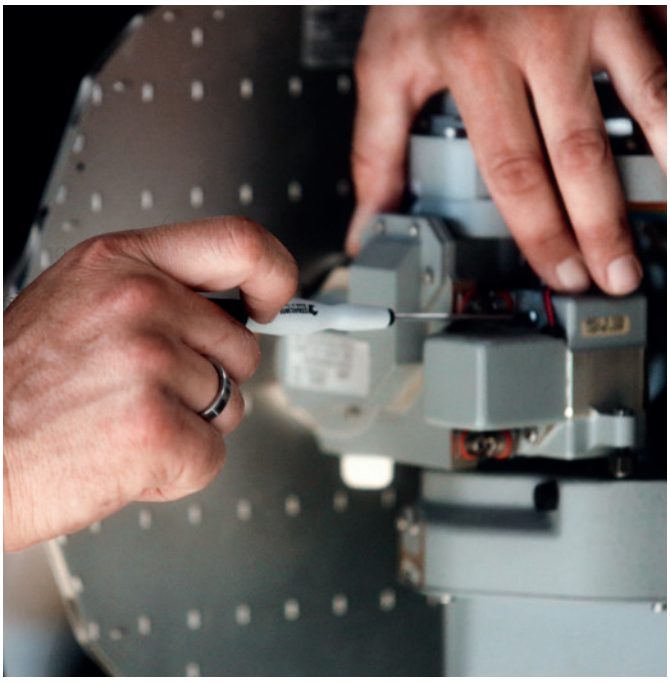


Electronic hex screwdrivers

— for hex socket screws
— rotating cap with ergonomic recess
— narrow, practical, fast rotating handle
— with laser marking



Product no.	mm	"	L1 mm	L2 mm	g
47533007	0.7	0,028	40	140	12
47533009	0.9	0,035	40	140	12
47533013	1.3	0.05	40	140	12
47533015	1.5	0,059	50	150	12



TORX® SCREW SIZES ACCORDING TO DIN.



DIN	931/933	912	963/965	964/966	7984	7985	7991	7981	7982	7983
M 2										
ST 2.2										
M 2.5		T8	T8	T8						
ST 2.9								T8	T8	T8
M 3	E4	T10	T10	T10	T10	T10	T10			
M 3.5			T15	T15		T15				
ST 3.5								T10	T10	T10
ST 3.9								T15	T15	T15
M 4	E5	T20	T20	T20	T20	T20	T20			
ST 4.2								T20	T20	T20
ST 4.8								T25	T25	T25
M 5	E6	T25	T25	T25	T25	T25	T25			
ST 5.5								T25	T25	T25
M 6	E8	T30	T30	T30	T30	T30	T30			
ST 6.3								T30	T30	T30
M 7										
M 8	E10	T45	T40	T45	T45	T45	T40			
M 10	E12	T50	T50	T50	T50	T50	T50			
M 12	E14	T55			T55					
M 14	E18	T60			T60					
M 16	E20	T70			T70					
M 18	E24	T80			T80					
M 20	E24	T90			T90					
M 22		T100*								
Camcar Licence sheet	TMF-16001	TMF-17012	TMF-17065	TMF-17066	TMF-17069	TMF-17085	TMF-17091	TMF-17081	TMF-17082	TMF-17083

*Special screw

Screw correlation for TORX® tools

Size	mm	Screws metric	Screws "
T5	1.4	M1.4 – M2	–
T6	1.6	M2	–
T7	2.0	M2.5	2.2
T8	2.3	M2.5	–
T9	2.5	M3	2.9
T10	2.7	M3 – M3.5	–
T15	3.3	M3.5 – M4	3.5
T20	3.8	M4 – M5	4.2
T25	4.4	M4.5 – M5	4.8
T27	5.0	M4.5 – M5 – M6	–
T30	5.5	M6 – M7	–
T40	6.6	M7 – M8	–
T45	7.8	M8 – M10	–
T50	8.8	M10	–
T55	11.2	M12	–
T60	13.2	M14	–
T70	15.5	M16	–
T80	17.6	M18	–
T90	19.9	M20	–
T100	22.1	M22	–

Screw correlation for TORX® tools

Size	mm	Screws metric	Screws "
E4	3.8	M3	2.2 – 2.9
E5	4.7	M4	–
E6	5.7	M5	–
E7	6.2	M6	–
E8	7.5	M6 – M7	3.5 – 4.2
E10	9.4	M8	–
E11	10.1	–	–
E12	11.1	M10	–
E14	12.9	M12	–
E16	14.7	M12	–
E18	16.6	M14	–
E20	18.4	M16	–
E24	22.1	M18 – M20	–

INCH POUND/FOOT POUND – NEWTON METER.

Inch pound (in·lb) – Newton meter (N·m)

	0	10	20	30	40	50	60	70	80	90
in·lb					N·m					
0	0.0	1.1	2.3	3.4	4.5	5.7	6.8	7.9	9.0	10.2
100	11.3	12.4	13.6	14.7	15.8	17.0	18.1	19.2	20.3	21.5
200	22.6	23.7	24.9	26.0	27.1	28.3	29.4	30.5	31.6	32.8
300	33.9	35.0	36.2	37.3	38.4	39.6	40.7	41.8	42.9	44.1
400	45.2	46.3	47.5	48.6	49.7	50.9	52.0	53.1	54.2	55.4
500	56.5	57.6	58.8	59.9	61.0	62.2	63.3	64.4	65.5	66.7
600	67.8	68.9	70.1	71.2	72.3	73.5	74.6	75.7	76.8	78.0
700	79.1	80.2	81.4	82.5	83.6	84.8	85.9	87.0	88.1	89.3
800	90.4	91.5	92.7	93.8	94.9	96.1	97.2	98.3	99.4	100.6
900	101.7	102.8	104.0	105.1	106.2	107.4	108.5	109.6	110.7	111.9
1000	113.0	114.1	115.3	116.4	117.5	118.7	119.8	120.9	122.0	123.2
1100	124.3	125.4	126.6	127.7	128.8	130.0	131.1	132.2	133.3	134.5
1200	135.6	136.7	137.9	139.0	140.1	141.3	142.4	143.5	144.6	145.8
1300	146.9	148.0	149.2	150.3	151.4	152.6	153.7	154.8	155.9	157.1
1400	158.2	159.3	160.5	161.6	162.7	163.9	165.0	166.1	167.2	168.4
1500	169.5	170.6	171.8	172.9	174.0	175.2	176.3	177.4	178.5	179.7
1600	180.8	181.9	183.1	184.2	185.3	186.5	187.6	188.7	189.8	191.0
1700	192.1	193.2	194.4	195.5	196.6	197.8	198.9	200.0	201.1	202.3
1800	203.4	204.5	205.7	206.8	207.9	209.1	210.2	211.3	212.4	213.6
1900	214.7	215.8	217.0	218.1	219.2	220.4	221.5	222.6	223.7	224.9
2000	226.0	227.1	228.3	229.4	230.5	231.7	232.8	233.9	235.0	236.2
2100	237.3	238.4	239.6	240.7	241.8	243.0	244.1	245.2	246.3	247.5
2200	248.6	249.7	250.9	252.0	253.1	254.3	255.4	256.5	257.6	258.8
2300	259.9	261.0	262.2	263.3	264.4	265.6	266.7	267.8	268.9	270.1
2400	271.2	272.3	273.5	274.6	275.7	276.9	278.0	279.1	280.2	281.4
2500	282.5	283.6	284.8	285.9	287.0	288.2	289.3	290.4	291.5	292.7
2600	293.8	294.9	296.1	297.2	298.3	299.5	300.6	301.7	302.8	304.0
2700	305.1	306.2	307.4	308.5	309.6	310.8	311.9	313.0	314.1	315.3
2800	316.4	317.5	318.7	319.8	320.9	322.1	323.2	324.3	325.4	326.6
2900	327.7	328.8	330.0	331.1	332.2	333.4	334.5	335.6	336.7	337.9
3000	339.0	340.1	341.3	342.4	343.5	344.7	345.8	346.9	348.0	349.2
3100	350.3	351.4	352.6	353.7	354.8	356.0	357.1	358.1	359.3	360.5
3200	361.6	362.7	363.9	365.0	366.1	367.3	368.4	369.5	370.6	371.8
3300	372.9	374.0	375.2	376.3	377.4	378.6	379.7	380.8	381.9	383.1
3400	384.2	385.3	386.5	387.6	388.7	389.9	391.0	392.1	393.2	394.4
3500	395.5	396.6	397.8	398.9	400.0	401.2	402.3	403.4	404.5	405.7
3600	406.8	407.9	409.1	410.2	411.3	412.5	413.6	414.7	415.8	417.0

Foot pound (ft·lb) – Newton meter (N·m)

	0	1	2	3	4	5	6	7	8	9
ft·lb					N·m					
0	0.0	1.4	2.7	4.1	5.4	6.8	8.1	9.5	10.9	12.2
10	13.6	14.9	16.3	17.6	19.0	20.3	21.7	23.1	24.4	25.8
20	27.1	28.5	29.8	31.2	32.5	33.9	35.3	36.6	38.0	39.3
30	40.7	42.0	43.4	44.7	46.1	47.5	48.8	50.2	51.5	52.9
40	54.2	55.6	56.9	58.3	59.7	61.0	62.4	63.7	65.1	66.4
50	67.8	69.2	70.5	71.9	73.2	74.6	75.9	77.3	78.6	80.0
60	81.4	82.7	84.1	85.4	86.8	88.1	89.5	90.8	92.2	93.6
70	94.9	96.3	97.6	99.0	100.3	101.7	103.0	104.4	105.8	107.1
80	108.5	109.8	111.2	112.5	113.9	115.3	116.6	118.0	119.3	120.7
90	122.0	123.4	124.7	126.1	127.5	128.8	130.2	131.5	132.9	134.2
100	135.6	136.9	138.3	139.7	141.0	142.4	143.7	145.1	146.4	147.8
110	149.1	150.5	151.9	153.2	154.6	155.9	157.3	158.6	160.0	161.3
120	162.7	164.1	165.4	166.8	168.1	169.5	170.8	172.2	173.6	174.9
130	176.3	177.6	179.0	180.3	181.7	183.0	184.4	185.8	187.1	188.5
140	189.8	191.2	192.5	193.9	195.2	196.6	198.0	199.3	200.7	202.0
150	203.4	204.7	206.1	207.4	208.8	210.2	211.5	212.9	214.2	215.6
160	216.9	218.3	219.6	221.0	222.4	223.7	225.1	226.4	227.8	229.1
170	230.5	231.9	233.2	234.6	235.9	237.3	238.6	240.0	241.3	242.7
180	244.1	245.4	246.8	248.1	249.5	250.8	252.2	253.5	254.9	256.3
190	257.6	259.0	260.3	261.7	263.0	264.4	265.7	267.1	268.5	269.8
200	271.2	272.5	273.9	275.2	276.6	277.9	279.3	280.7	282.0	283.4
210	284.7	286.1	287.4	288.8	290.2	291.5	292.9	294.2	295.6	296.9
220	298.3	299.6	301.0	302.4	303.7	305.1	306.4	307.8	309.1	310.5
230	311.8	313.2	314.6	315.9	317.3	318.6	320.0	321.3	322.7	324.0
240	325.4	326.8	328.1	329.5	330.8	332.2	333.5	334.9	336.2	337.6
250	339.0	340.3	341.7	343.0	344.4	345.7	347.1	348.5	349.8	351.2
260	352.5	353.9	355.2	356.6	357.9	359.3	360.7	362.0	363.4	364.7
270	366.1	367.4	368.8	370.1	371.5	372.9	374.2	375.6	376.9	378.3
280	379.6	381.0	382.3	383.7	385.1	386.4	387.8	389.1	390.5	391.8
290	393.2	394.5	395.9	397.3	398.6	400.0	401.3	402.7	404.0	405.4
300	406.8									

SPANNER AND FASTENER SPECIFICATIONS.

Spanner opening Nominal width across flats		Metric sizes																American sizes								
			Thread diameters															Thread diameters · American standard ANSI								
			DIN ISO 272				ISO R 272 1968		German standard DIN					French standard	Swedish standard				Nuts				Bolts and screws			
Minimum dimension mm[1]	Maximum dimension mm[1]	Nominal size of wrench, mm	Standard hex	Large hex	Screw with flange	Nut with flange	Normal hex	Small hex	Normal hex[2]	Large hex[3]	Small hex[4]	Screw with flange[5]	Nut with flange[6]	NFE 27-111-1930[9]	Metric, large[8] SMS 1412	Metric, small[8] SMS 1414	Whitworth, large[8] SMS 1413	Whitworth, small[8] SMS 1415	Nominal Size of Wrench	**a** Normal (No)	**b** Square (No)	**c** Heavy (No)	**d** Machine Screw Nuts (No)	**e** Normal (No)	**f** Heavy (No)	**g** Machine Screws (No)	**h** Square Head Set Screws (No)
3.22	3.28	**3.2**	1.6				1.6		1.6																		
3.23	3.35																		**1/8**							1·2·3	
3.52	3.60	**3.5**																									
4.01	4.14													2.5					**5/32**				0·1			
4.02	4.12	**4**	2				2		2							2.3											
4.52	4.62	**4.5**														2.6											
4.83	4.95																		**3/16**				2·3			3·4·5	10
5.02	5.12	**5**	2.5				2.5		2.5					3		3											
5.21	5.33																		**13/64**								
5.52	5.62	**5.5**	3				3		3																		
5.59	5.72																		**7/32**								
6.00	6.13																		**15/64**								
6.03	6.15	**6**							3.5					3.5	3	3.5											
6.40	6.53																		**1/4**				4			6·8	1/4
6.82	6.97																		**17/64**								
7.03	7.15	**7**	4		5		4		4					4·4.5	3.5	4											
7.19	7.32																		**9/32**					10*			
7.62	7.77																		**19/64**								
8.03	8.18																		**5/16**				5·6			10·12	5/16
8.03	8.15	**8**	5		6	5	5		5		6	5	5	5	4	5											
8.41	8.56																		**21/64**								
8.81	8.97																		**11/32**				8				
9.03	9.15	**9**							(5)[7]					5.5	5												
9.60	9.75																		**3/8**				10	1/4*		1/4	3/8
10.04	10.19	**10**	6		8	6	6		6		8	6	6	6		6											
10.39	10.55																		**13/32**								
11.04	11.19	**11**	7				7		7						6	7		1/4									
11.18	11.33																		**7/16**	1/4	1/4		12·1/4	1/4			7/16
11.99	12.14																		**15/32**								
12.04	12.24	**12**						8						7		8											
12.80	12.95																		**1/2**	5/16		1/4		5/16		5/16	1/2
13.04	13.24	**13**	8		10	8	8		8		10	8	8				1/4	5/16									
13.60	13.77																		**17/32**								
14.05	14.27	**14**						10	(8)[7]					8	8												
14.38	14.55																		**9/16**	3/8	5/16	5/16	5/16	3/8		3/8	9/16
15.05	15.27	**15**			12	10						10	10			10	5/16	3/8									
15.18	15.36																		**19/32**								
15.98	16.15																		**5/8**		3/18		3/8	7/16			5/8
16.05	16.27	**16**	10	ZK:M10 M14					10		12	12		9													
16.77	16.95																		**21/32**								
17.05	17.30	**17**					10	12	(10)		(12)			10	10												
17.58	17.75																		**11/16**	7/16		3/8					
18.05	18.30	**18**	12	ZK:M12	14	12			12		16	14	12			12	3/8	7/16									
19.06	19.36	**19**					12	14	(12)		(16)			11													
19.18	19.38																		**3/4**	1/2	7/16	7/16		1/2			3/4
19.97	20.17																		**25/32**								
20.06	20.36	**20**																									
20.78	20.98																		**13/16**	1/2			9/16				
20.86	21.16	**20.8**		ZK:M14 M18																							
21.06	21.36	**21**	14	12	16	14			14	12		16	14	12		14	7/16	1/2									
22.06	22.36	**22**					14	16	(14)	12					12·14												
22.35	22.56																		**7/8**	9/16		1/2			1/2		7/8
23.06	23.36	**23**												14			1/2										
23.98	24.21																		**15/16**	5/8		9/16		5/8			
24.06	24.36	**24**	16	14		16	16	18	16		20		16			16		5/8									
24.76	24.99																		**31/32**								
25.06	25.36	**25**																									
25.55	25.78																		**1**		5/8						1
26.08	26.48	**26**		ZK:M18										16													
27.08	27.48	**27**	18	16	20		18	20	18	16		20			16	18											
27.13	27.36																		**1 1/16**			5/8			5/8		
28.08	28.48	**28**															5/8	3/4									
28.75	29.01																		**1 1/8**	3/4	3/4			3/4			1 1/8
29.08	29.48	**29**												18													
30.08	30.48	**30**	20	18		20	20	22	20		24		20			20											
30.34	30.59																		**1 3/16**								
31.93	32.18																		**1 1/4**			3/4			3/4		1 1/4
32.08	32.48	**32**					22	24	(22)	20				20	18·20	22											
33.08	33.48	**33**															3/4	7/8									
33.53	33.81																		**1 5/16**	7/8	7/8			7/8			
34.08	34.48	**34**	22	20					22	20						24											
35.10	35.60	**35**												22													
35.13	35.41																		**1 3/8**								1 3/8
36.10	36.60	**36**	24	22			24	27	24	22	30				22·24												

Spanner opening SW		Metric sizes																American sizes								
			Thread diameters															Thread diameters · American standard ANSI								
			DIN ISO 272				ISO R 272 1968		German standard DIN					French standard	Swedish standard				Nuts				Bolts and screws			
Minimum dimension mm[1]	Maximum dimension mm[1]	Nominal size of wrench, mm	Standard hex	Large hex	Screw with flange	Nut with flange	Normal hex	Small hex	Normal hex[2]	Large hex[3]	Small hex[4]	Screw with flange[5]	Nut with flange[6]	NFE 27-111-1930[8]	Metric, large[8] SMS 1412	Metric, small[8] SMS 1414	Whitworth, large[8] SMS 1413	Whitworth, small[8] SMS 1415	Nominal Size of Wrench	**a** Normal (No)	**b** Square (No)	**c** Heavy (No)	**d** Machine Screw Nuts (No)	**e** Normal (No)	**f** Heavy (No)	**g** Machine Screws (No)	**h** Square Head Set Screws (No)
36.73	37.01																		1 7/16			7/8			7/8		
37.10	37.60	37															7/8	1"								
38.10	38.60	38												24												
38.30	38.61																		1 1/2	1"	1"			1"			1 1/2
39.89	40.20																		1 9/16								
41.10	41.60	41	27	24			27	30	27	24					27												
41.50	41.81																		1 5/8			1"			1"		
42.10	42.60	42												27			1"	1 1/8								
42.67	42.93																										
43.08	43.38																		1 11/16	1 1/8	1 1/8			1 1/8			
44.70	45.03																		1 3/4								
46.10	46.60	46	30	27			30	33	30	27	36			30	30												
46.28	46.61																		1 13/16			1 1/8			1 1/8		
47.10	47.60	47															1 1/8	1 1/4								
47.88	48.21																		1 7/8	1 1/4	1 1/4			1 1/4			
50.10	50.60	50	33	30			33	36	33	30				33	33												
51.08	51.44																		2"			1 1/4			1 1/4		
52.10	52.60	52															1 1/4	1 3/8								
52.68	53.04																		2 1/16	1 3/8	1 3/8			1 3/8			
54.12	54.72	54												36													
54.25	54.61																		2 1/8								
55.12	55.72	55	36	33			36	39	36		42				36												
55.88	56.26																		2 3/16			1 3/8			1 3/8		
56.12	56.72	56															1 3/8	1 1/2								
57.45	57.84																		2 1/4	1 1/2	1 1/2			1 1/2			
58.12	58.72	58												39													
60.12	60.72	60	39	36			39		39	36					39		1 1/2	1 5/8								
60.66	61.06																		2 3/8			1 1/2			1 1/2		
62.23	62.64																		2 7/16								
63.12	63.72	63												42													
63.83	64.24																		2 1/2								
65.12	65.72	65	42	39			42		42		48				42		1 5/8	1 3/4								
65.43	65.86																		2 9/16			1 5/8					
67.03	67.46																		2 5/8					1 3/4			
67.12	67.72	67												45													
70.12	70.72	70	45				45		45						45		1 3/4	1 7/8								
70.26	70.69																		2 3/4			1 3/4			1 3/4		
71.12	71.72	71												48													
71.81	72.26																		2 13/16								
75.03	75.51																		2 15/16			1 7/8					
75.15	75.85	75	48				48		48		56				48		1 7/8	2"								
76.61	77.09																		3"					2"			
77.15	77.85	77												52													
79.81	80.31																		3 1/8			2"			2"		
80.15	80.85	80	52				52		52						52		2"										
82.15	82.85	82												56													
85.15	85.85	85	56				56		56																		
86.18	86.72																		3 3/8					2 1/4			
88.15	88.85	88												60													
89.36	89.92																		3 1/2			2 1/4			2 1/4		
90.15	90.85	90	60				60		60																		
94.15	94.85	94												64													
95.15	95.85	95	64				64		64																		
95.76	96.34																		3 3/4					2 1/2			
98.93	99.52																		3 7/8			2 1/2			2 1/2		
100.15	100.85	100	68				68		68					68													
105.20	106.00	105	72				72		72					72													
105.33	105.97																		4 1/8					2 3/4			
108.51	109.14																		4 1/4			2 3/4			2 3/4		
110.20	111.00	110	76				76		76					76													
114.91	115.57																		4 1/2					3"			
115.20	116.00	115	80				80		80																		
116.20	117.00	116												80													
118.08	118.77																		4 5/8			3"			3"		
120.20	121.00	120	85				85		85																		

ASME/ANSI B 18.2.2–1987

[1] Maximum and minimum dimensions for metric sizes according to DIN 475/2 series 1 and ISO 691 (machined tolerances), American sizes according to ANSI B 18.2.1 + ASME/ANSI B 18.2.2

[2] DIN ISO 4014, 4016, 4017, 4018, 4032, 4034, 4035, 4036, 8673, 8674, 8675, 8676, 8765, sizes in brackets only DIN 439, 555, 558, 601, 609, 610, 917, 931, 933, 934, 935, 936, 937, 960, 961, 979, 980, 985, 986, 1587, 2510/5, 6330, 6331, 7967, 7968, 79900

[3] DIN 6914, 6915, 7999 (SW 21 + 34)

[4] DIN 561, 564

[5] DIN 6921, 6922

[6] DIN 6923, 6926, 6927

[7] Standards prior to 1963

[8] old standards

[a] Hex Flat and Hex Flat Jam Nuts
Hex Nuts and Hex Jam Nuts
Hex Slotted Nuts
Hex Thick Nuts
Hex Thick Slotted Nuts
Hex Castle Nuts

[b] Square Nuts

[c] Heavy Square Nuts
Heavy Hex Flat Nuts
Heavy Hex Flat Jam Nuts
Heavy Hex Nuts
Heavy Hex Jam Nuts
Heavy Hex Slotted Nuts

ANSI B 18.2.1–1981

[d] ANSI B 18.6.3 – 1972

[e] Square Bolts
Hex Bolts
Hex Cap Screws
Lag Screws

[f] Heavy Hex Bolts
Heavy Hex Structural Bolts
Heavy Hex Screws

[g] ANSI B 18.6.3 – 1972 (R 1983)

[h] ANSI B 18.6.2 – 1972 (R 1983)

* Square Bolt and Lag Screws only

SP = Spark Plug

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Technologies and features

2-component handle
Our 2-component handle is non-slip and ergonomically designed. It is resistant to the most common oils, greases, fuels, brake fluids, and Skydrol. The arrow markings on the handle indicate the direction of operation.

3K DRALL®
The STAHLWILLE 3K DRALL® handle with non-slip, special fibre-coated surface enables fatigue-free working and maximum power transmission. An ingenious opening serves both as a hanging hole and as a lever hole for additional force and high torque.

3-component handle
Our 3-component handle combines hard and soft components, which give it its optimised ergonomics, maximum power transmission, and increased safety during daily use.

Anti-Slip-Drive
The special AS-Drive profile makes high force transmission to the flats of bolts and nuts possible without damaging them. This also prevents stripping of the screw head.

DKD-R 10-8 / DIN 51309
Our transducers for torque wrenches and torque testers are professionally calibrated in our DAkkS-accredited calibration laboratory. Depending on requirements, this is done either with a calibration certificate within the scope of our accreditation (according to DKD-R 10 8 or DIN 51309) or with a factory calibration certificate based on these guidelines.

Double-T profile
Our ring, open-ended and combination spanners have an additional recess in the middle of the tool. Similar to the principle of a double-T beam, this provides a tremendous load capacity and maximum strength whilst reducing weight.

DRALL+
Our DRALL+ handle is non-slip and ergonomic. An extended grip zone protects the fingers and a hand stop prevents the tool from accidentally slipping or rolling away.

Thin-walled rings
The thin-walled diameter of our rings makes it easier to work in confined spaces. The ring wall is deeper than standard nuts, which prevents jamming.

Spring mechanism with the 'click'
Our torque wrench uses a toggle lever as the switching mechanism. When the set torque is reached (click-type), the spring force is exceeded, causing the mechanism to slip and strike. This produces a clearly audible and perceptible 'click'.

Fine-tooth ratchet mechanism
Our fine-tooth ratchets with 80 teeth re-engage after just 4.5° for maximum precision in confined spaces. 8 pairs of parallel teeth simultaneously ensure maximum load-bearing capacity and particularly smooth running, even at high torques.

Foreign Object Damage
STAHLWILLE protects against FOD (Foreign Object Damage). Our tool is ideal for safety-relevant sectors such as aviation, thanks to the screwless design.

High Performance Quality (HPQ®)
Our HPQ® tool is made of wear-resistant high-performance steel, yet is thin-walled and lightweight. It withstands high torques and is ideal for work in confined spaces such as turbines.

HI-LOK™
HI-LOK™ fasteners are widely used in the aerospace industry. Our HI-LOK™ ratchet with centered channel guide for hex L-Keys is designed for safety-critical applications. The boltless design minimises the risk of FOD and ensures robust, vibration-resistant connections with high tensile strength.

Modular Inlay System
This flexible solution for tool storage makes it possible to customise your tool trolleys and workbenches with 1/6, 1/3, 2/3 or 3/3 foam inlays.

LightCUT®
The flat-oval, high-strength aluminium tubes of the LightCUT® range ensure a low weight, approximately half that of a comparable tool. For fatigue-free working and precise results.

Offset Shaft Design
Our spanners are specially designed with additional reinforcement in the load zones where the greatest amount of force is transmitted - namely where the jaw meets the shank - in order to prevent deformation.

QuickRelease
In torque wrenches, ratchets, and sockets:
The QuickRelease safety lock prevents unintentional loss of insert tools. These click securely into place, and are only released again at the push of a button for a quick tool change.
In transducers: The QuickRelease safety lock helps you to quickly mount and change transducers. The sensors lock into the calibration system adaptor and only unlock again at the push of a button.

QuickSelect
Lightning-fast target value setting: Unlock the adjustment knob, set the value, and lock the knob again.

Impact cap
Our DRALL+ screwdriver is equipped with a metal impact cap for use in extreme conditions, enabling the screwdriver to be impacted with a mallet or hammer.

Hex shank profile
Some of our DRALL+ screwdrivers have a hex shank profile at the base of the handle which can be used in conjunction with a spanner to apply more force when loosening tight screws.

SolutionCUT
The special pipe head geometry of this bolt cutter enables precise and clean cutting not only in the second layer, but also in deeper layers - for effortless and precise working even in hard-to-reach areas.

Tool Control System
The intelligent modular inlay system protects and organises the tools in tool boxes, tool trolleys and workbenches. Two-colour foam inlays make checking the completeness of the tools quick and easy.

Adjustment Lock
The target torque can be quickly adjusted using the adjustment knob. The knob can then be removed to prevent subsequent adjustment. The supplied locking screw (TORX® Tamper Resistant) and an adhesive seal provide additional protection against tampering.

VDE-DRALL+
Our VDE-DRALL+ handle is insulated to 1,000 V according to DIN EN 60900. It is non-slip and ergonomically shaped. An extended grip zone protects the fingers and a hand stop prevents the tool from accidentally slipping or rolling away.

Low-wear bending beam system
Our torque wrench is equipped with a low-wear release system with a bending beam. Unlike conventional torque wrenches with coiled springs, the bending beam is not subjected to any load until the tool is in operation, which means that the spring does not need to be reset to '0' after use.

DIN EN ISO 6789-2
Our torque wrenches and torque screwdrivers are professionally calibrated in accordance with DIN EN ISO 6789-2 and delivered with a corresponding calibration certificate. We also calibrate angle-controlled torque wrenches in accordance with VDI 2648-2. This ensures the accuracy and traceability of our tools.

EVERYTHING IN ONE PLACE. ALWAYS AVAILABLE.

The new service portal MySTAHLWILLE offers customers a wealth of options.

The MySTAHLWILLE service portal enables round-the-clock access to a variety of product and service related functions, such as product registration, software downloads, warranty and quotation requests, repair or calibration orders and much more. Everything in one place and available at any time.



Simple.

Setting up an individual customer account and registering tools in MySTAHLWILLE is quick and easy – in just a few steps. Once complete, users have access to all services in the portal.

Current.

The service portal always has the latest information on pending repair and calibration orders. Shipment and order status can be viewed here at any time.

Central.

Important information and resources can be accessed via the customer account: Delivery notes, repair reports, calibration documents as well as downloads of software, drivers and 3D product data.

SERVICE

Accredited.

We can also offer calibrations in our own DAkkS accredited laboratory, and not just for torque wrenches manufactured by STAHLWILLE.

Direct.

For each calibration or repair of a tool, a customer order can be created easily via the direct service option. The firm price for the respective services are visible immediately. Direct service is the quickest way to get your tool back in your possession.

Here's how it works:

1. Product selection and registration
2. Description of the fault
3. Service selection
4. Creation of confirmation and delivery note
5. Product shipment
6. Calibration, service and/or repair, with tracking
7. Return of serviced product

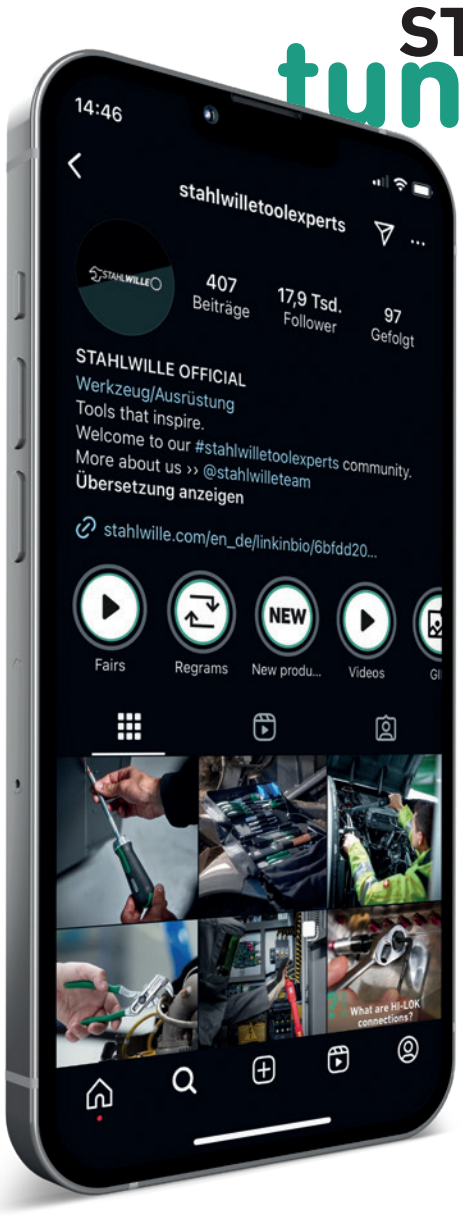


Discover the MySTAHLWILLE service portal.

Technical support can be reached quickly via MySTAHLWILLE. Experienced experts support you with all technical questions relating to your products.
service.stahlwille.com

FOLLOW US TO KNOW MORE –
We're on all major networks.

Whether it's a Facebook post, Insta story or LinkedIn event: We share our content on the major platforms and are happy to network with our partners. It's best to drop by, connect and keep updated!



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Find out more here
www.stahlwille.com



Staying up-to-date: easy.

Want to know what's new at STAHLWILLE, but don't want to keep checking the website? Our newsletter provides regular updates on new products and promotions, as well as technical information and useful tips.

Simply scan the QR code and fill out the form.
Or use this link: **https://stahlwille.com/en_gb/5f599ab6**

STAHLWILLE WORLDWIDE –
Always where our customers are.

To be a global leader, a global presence is essential. That is why we are represented locally in many markets with our own subsidiaries and have an extensive network of trading partners. No matter where our customers are, we are always close to them.

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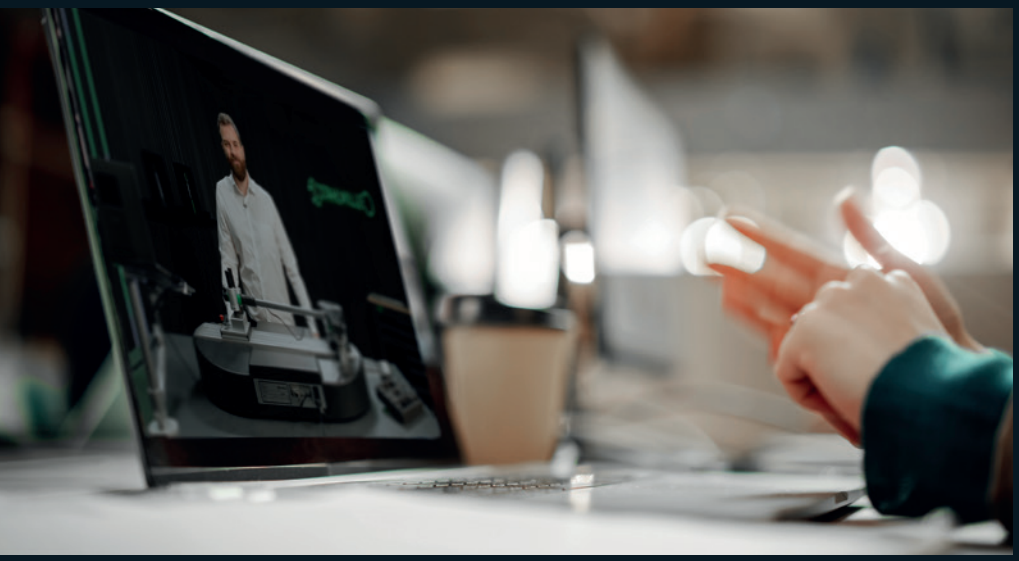
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Would you like to learn more and expand your know-how in the hand tools and torque technology field? Then take advantage of our training offers or join our free webinars and benefit from our expertise.

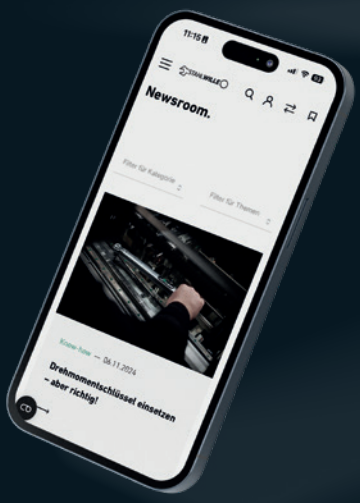
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Would you like to visit us at a trade fair to find out more about STAHLWILLE products or to get to know us in person? Then you can find all trade fair and event dates here.

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