

2026 / 2027 CATALOGUE

MADE IN CRONENBERG
MADE IN GERMANY

TOOLS THAT
... inspire

STAHWILLE®



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!

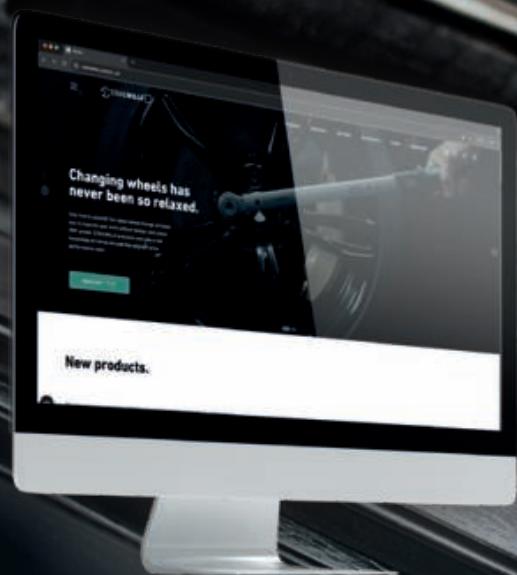
Yours
Vera Bökenbrink



Yours
Udo Hehemann



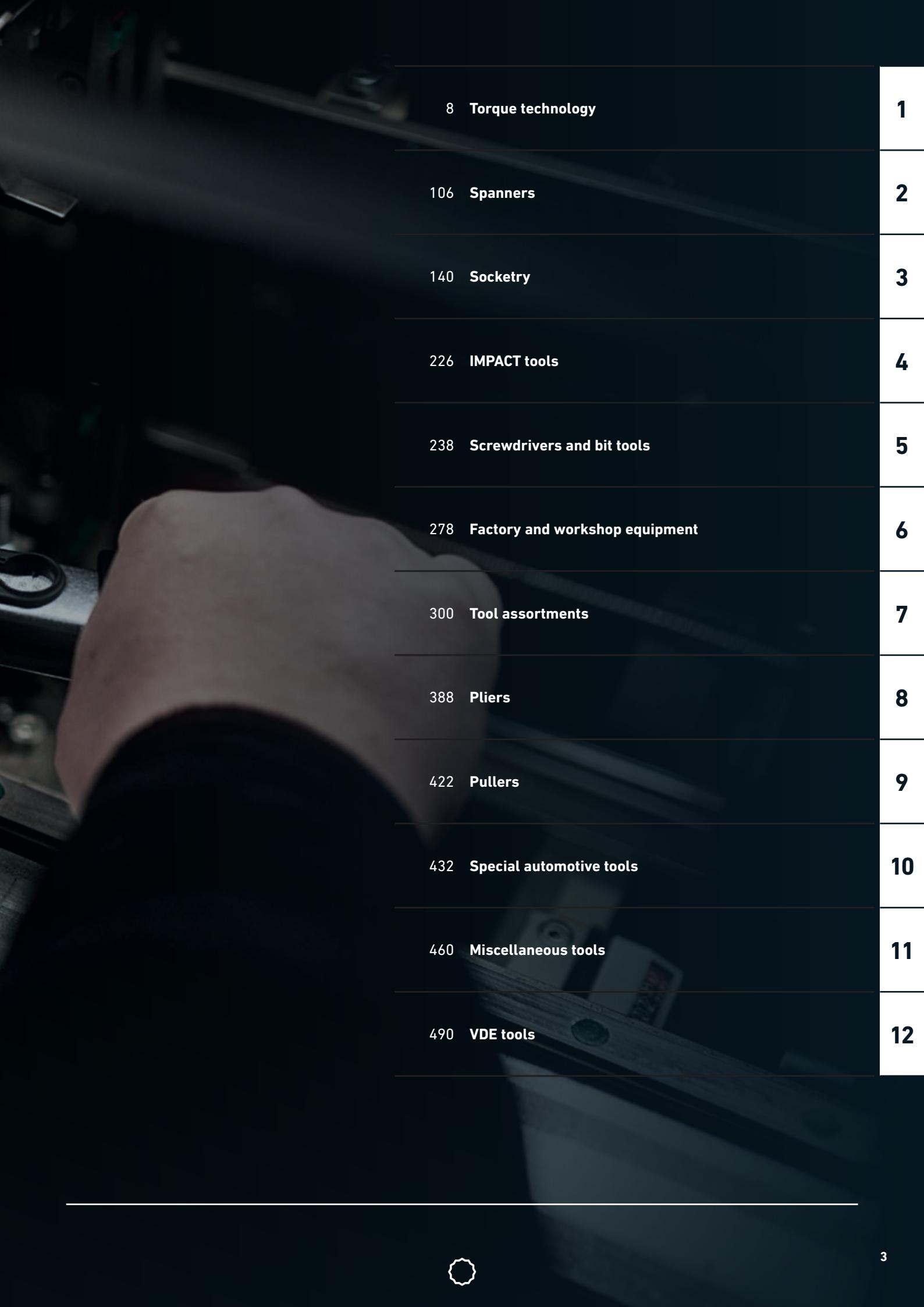
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**Always well informed – with the
STAHLWILLE website.**

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



8 Torque technology

1

106 **Spanners**

2

140 **Socketry**

3

226 **IMPACT tools**

4

238 **Screwdrivers and bit tools**

5

278 **Factory and workshop equipment**

6

300 **Tool assortments**

7

388 **Pliers**

8

422 **Pullers**

9

432 **Special automotive tools**

10

460 **Miscellaneous tools**

11

490 **VDE tools**

12

MADE IN CRONENBERG. Made in Germany. Our commitment to the location and to absolute premium quality.



Made in Germany.

At STAHLWILLE, we develop and manufacture innovative hand tools of a premium quality. Made in Germany, of course! All products in our portfolio impress with their excellent performance and a long service life. However, should something break, we place particular importance on ensuring that our tools can be repaired whenever possible – even a long time after purchase. A contribution to greater sustainability.

At home everywhere.

The quality and performance of our tools and tool storage solutions are trusted by professional industrial users and tradespeople worldwide. In countless projects around the globe, STAHLWILLE repeatedly proves its competence as a project partner and its reliability as a supplier.

STAHLWILLE GROUP



The STAHLWILLE Group.

The STAHLWILLE Group brings together the STAHLWILLE, VBW and ALARM brands under one roof: Three traditional companies that operate successfully in the market, have a wealth of experience and are distinguished by their passion for high-quality tools and their special customer focus.



Our expertise.

We combine our unique heritage with state-of-the-art expertise. Thanks to our many years of experience, we know the different requirements of our customers and the tools they need, across many industries. This enables us to continuously develop our products and optimally adapt them to the needs of users. Over time, we have evolved from a traditional hand tool manufacturer to an innovative solution provider.

Multiple certifications.

We are certified according to the environmental management standard ISO 14001:2015, quality standard ISO 9001:2015 and management system standard ISO 50001:2018. In addition, our production meets all the requirements of the European environmental standard EMAS.

As part of our energy management system, we ensure the efficient and responsible use of resources in order to purposefully reduce energy consumption and emissions.



Taking responsibility. Shaping the future.

At STAHLWILLE, Corporate Social Responsibility (CSR) holds great importance. As one of the leading companies in our industry, we take responsibility — for our employees, our partners, and the environment. We are actively committed to socially responsible working conditions, fair collaboration, and resource-efficient production. In doing so, we continuously develop our processes — always with the goal of aligning sustainable business practices with technological excellence. Our corporate management takes ecological, social, and economic aspects equally into account. By doing so, we contribute to minimizing environmental impact and shaping the future responsibly — for a sustainable industry for generations to come.

Sustainability has many aspects and challenges, especially for a medium-sized company. For this reason, we have defined our own sustainability policy, which sets out our standards regarding working conditions, ethics, and environmental protection, and ensures their implementation.

Resources and environment.

STAHLWILLE is continuously working to reduce energy consumption and lower CO₂ emissions — both important steps toward improving our climate footprint.

Another important contribution to sustainability is the switch to environmentally friendly packaging materials. STAHLWILLE avoids plastic packaging wherever possible and uses materials such as solid cardboard or recycled paper instead. Where plastic packaging is unavoidable, it consists of materials with a very high recycled

content. All packaging is marked according to the EU Packaging Regulation to ensure proper disposal.

Certified value creation.

STAHLWILLE is certified according to international standards that ensure the highest levels of quality, energy efficiency, and environmental protection — including DIN EN ISO 9001, ISO 50001, and ISO 14001. Regular audits confirm our systematic approach to quality and sustainability.





Local production and long-lasting product quality.

By deliberately choosing production sites in Germany, we are keeping the supply chain as short as possible. STAHLWILLE products are of high quality and enable users to use them for a long time. In addition, STAHLWILLE focuses on sustainable product development and repair-friendly product design, ensuring long-term availability of spare parts that meets – and in many cases exceeds – legal requirements.

Ethical conduct.

Our Code of Conduct forms the basis for our daily behaviour and conveys our values and mission statements to all those involved – and not only within the STAHLWILLE Group. We also obligate our suppliers to comply with a Code of Conduct in order to enforce our high standards of good and sustainable corporate management.

Statutory requirements.

Of course, STAHLWILLE complies with all applicable environmental and safety regulations, such as the requirements of the REACH Regulation, which ensures the careful registration and evaluation of chemicals. The company also strictly adheres to the RoHS directives aimed at minimizing hazardous substances in electrical equipment, as well as to the German Water Resources Act. The water used in production processes is filtered and purified to protect the environment as effectively as possible. But we do not stop there: the company continuously works to improve its processes and materials. An example of this is the recent transition from chromium VI to chromium III – another step towards more environmentally friendly and sustainable manufacturing.

STÄHLWILLE

MANOSKOP® 714/10
MADE IN CROMENBERG
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10 - 100 Nm
7/16 - 17/32 in-lb
710 - 740 in-lb

0.1Nm

20 **Torque screwdrivers, mechanical**

22 **Torque screwdrivers,
electromechanical**

26 **Torque wrenches, mechanical**

42 **Torque wrenches, electronic,
electromechanical**

48 **Accessories for torque tools**

54 **Torque tool sets**

60 **Insert tools**

76 **Torque multipliers**

78 **Spare part sets for ratchets and
ratchet insert tools**

80 **Square drives**

81 **Calibration certificates**

84 **Test equipment and calibration
systems**

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](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	Page
Mechanical/Electromechanical	0 50 150 300 500 650 800 1.000	Electromechanical	Mechanical
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	Page
Mechanical	0 50 150 300 500 650 800 1.000	Indicating Clicking	Fixed Interchangeable	
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



Testing and calibration technology

Category	Measuring range N·m	Type	Page
Testing devices	0 50 150 300 500 650 800 1.000 1.500	Electronic Mechanical	
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 1.500 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.



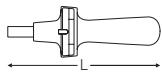
TORQUE SCREWDRIVERS, MECHANICAL.

TORSIOMETER 760



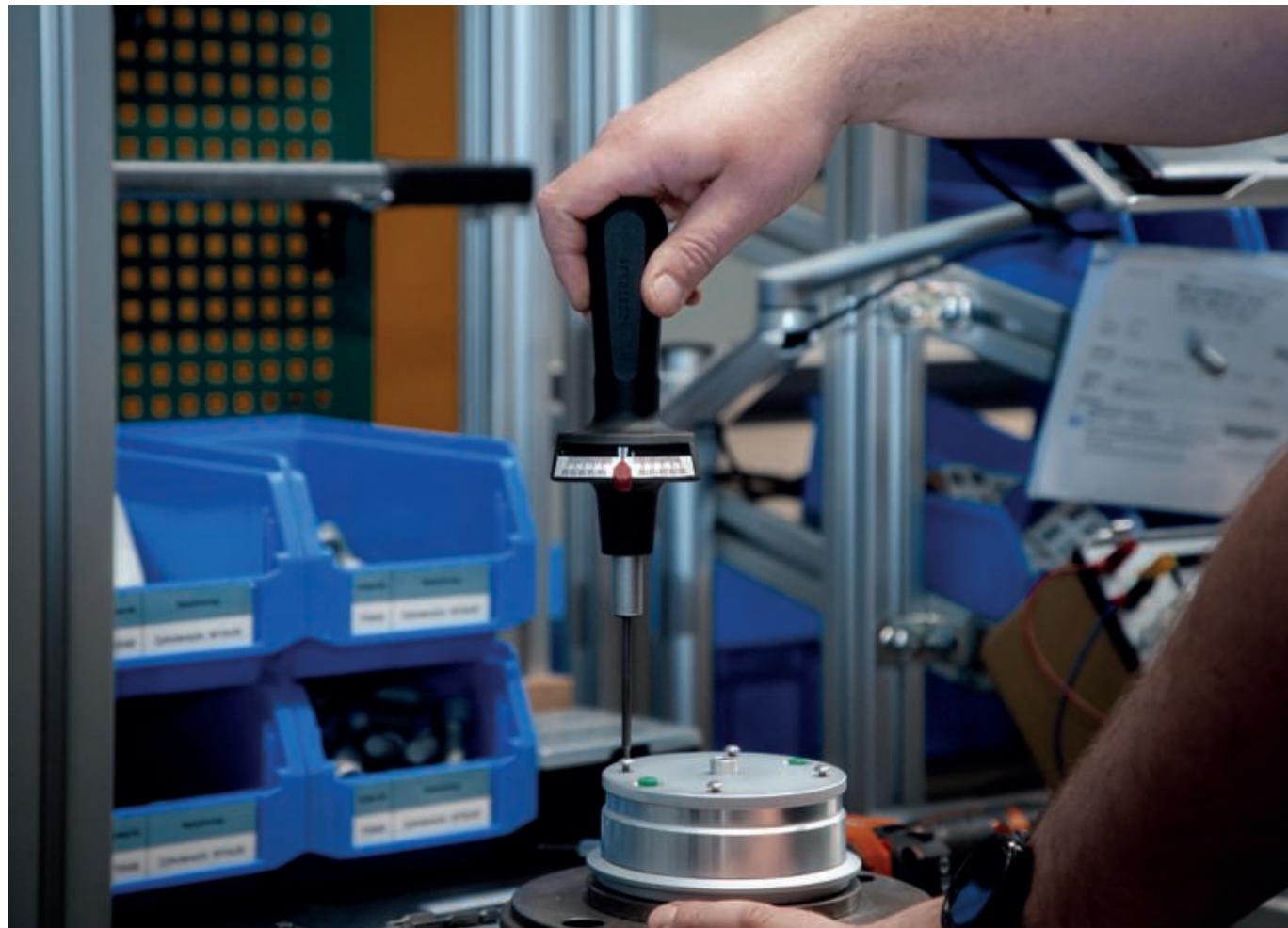
Torque screwdrivers TORSIOMETER

- indicating type
- torsion leaf spring as measuring element
- for clockwise and counter-clockwise tightening
- with drag pointer
- with $\frac{1}{4}$ " internal hex drive (F 6.3 DIN 3126 / ISO1173)
- comparative scale in-lb



- inserts and connectors with external hex E 6.3 ($\frac{1}{4}$ ") DIN 3126 / ISO 1173 fit securely in the bit holder
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy $\pm 4\%$**

Product no.	Size	$\frac{1}{4}$ " cN·m	$\frac{1}{4}$ " in-lb	$\frac{1}{4}$ " cN·m	$\frac{1}{4}$ " mm	L mm	$\frac{1}{4}$ " 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 $\frac{1}{4}$ " internal hex drive (F 6.3 DIN 3126 / ISO1173)
- adjustable setting via micrometer scale (rotating scale)
- disengaging clutch prevents overtightening of the fastener

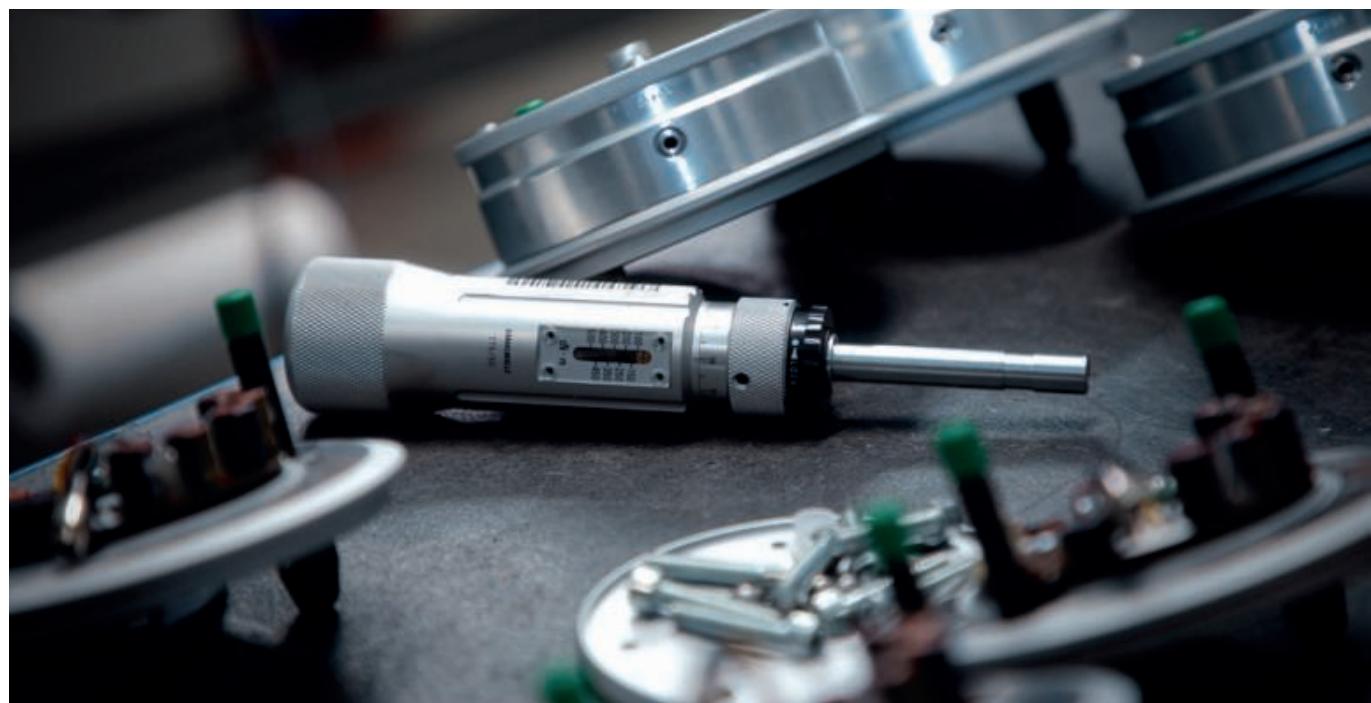


Product no.	Size	$\frac{1}{4}$ " cN·m	$\frac{1}{4}$ " in·lb	$\frac{1}{4}$ " cN·m	$\frac{1}{4}$ " in·lb	$\frac{1}{4}$ " cN·m	$\frac{1}{4}$ " in·lb	$\frac{1}{4}$ " mm	L mm	$\frac{1}{4}$ " g
51060003 ¹	3	2-30	-	0.2	-	F 6.3	-	105	-	55
51060012 ²	12	20-120	-	1	-	F 6.3	-	157	-	180
51060030 ²	30	40-300	-	1	-	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 $\frac{1}{4}$ " external square drive (6.3 DIN 3120/ISO 1174-1) and integrated ratchet function with 80 teeth, working angle of 4.5°, for holding $\frac{1}{4}$ " 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 $\frac{1}{4}$ " inner square at the end of the handle (6.3 DIN 3120/ISO 1174-1) for accommodating a $\frac{1}{4}$ " 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 $\pm 4\%$**

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.

1

TORSIO TROTMTRONIC



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.



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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 $\pm 4\%$**

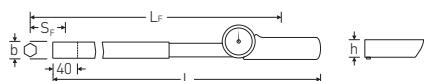
71/80



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

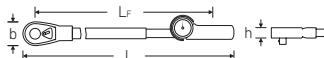
71aR/80



Torque wrench MANOSKOP®

- with permanently installed ratchet
- 36 teeth

- for controlled clockwise tightening
- dial gauge secured with an additional protective ring



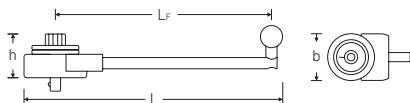
Product no.	N·m	ft·lb	N·m	ft·lb	mm	L mm	b mm	h mm	L_F mm	g
50450080	160-800	100-600	10	10	3/4	1152	70	30	1060	4900

73Nm/15



Friction gauge

- indicating type
- drag indicator dial gauge
- with built-in square for clockwise measurements
- no 'blinking cursor' during the measurement process



Product no.	mm N·m	mm N·m	"	mm	mm	mm	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

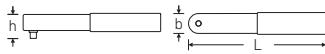
- weight reduction through use of aluminium inserts
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4%**

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.	mm N·m	mm ft-lb	"	mm	mm	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	mm N·m	mm ft-lb	"	mm	mm	mm	mm	mm	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	

Torque technology

Key features of torque wrenches

Service MANOSKOP® 730 Quick

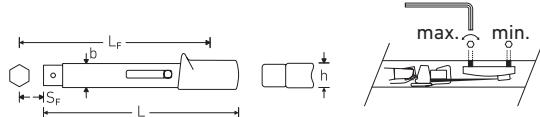
- clicking type with dual stop signal
- no reset to '0' required
- the measuring element is only under load during tightening
- with holder for interchangeable insert tools
- with QuickRelease safety lock (size 5-65)
- non-slip adjuster with thumb recess for quick torque adjustment
- fine, tapered pointers
- 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 $\pm 4\%$**

730 Quick



Torque wrenches Service MANOSKOP® (N·m)

- N·m scale only



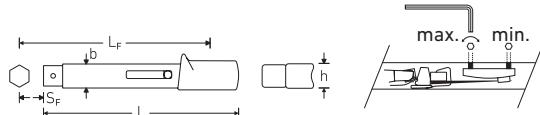
Product no.	Size	N·m N·m	N·m mm	L mm	b mm	h mm	L_F mm	S_F mm	g
50184001	2-1	2-10	0.25	9 x 12	179	27.5	23.6	157.2	17.5
50184002	2	4-20	0.5	9 x 12	179	27.5	23.6	157.2	17.5
50184004	4	8-40	1	9 x 12	223	27.5	23.6	200.8	17.5

730a Quick



Torque wrenches Service MANOSKOP® (in·lb)

- in·lb scale only



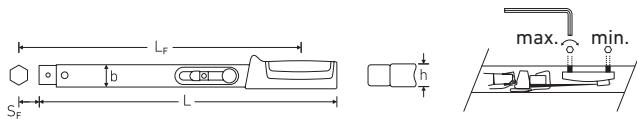
Product no.	Size	in·lb in·lb	in·lb mm	L mm	b mm	h mm	L_F mm	S_F mm	g
50584001	a/2-1	17.5-87.5	2.5	9 x 12	179	27.5	23.6	157.2	17.5
50584002	a/2	30-175	5	9 x 12	179	27.5	23.6	157.2	17.5
50584004	a/4	70-350	10	9 x 12	223	27.5	23.6	200.8	17.5

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

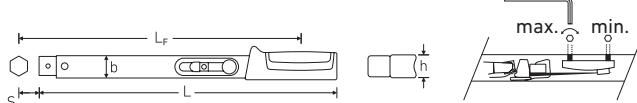
² supplied in textile bag

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

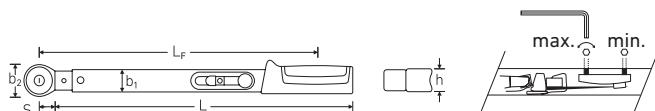
TOOLS THAT
... inspire

730R Quick



Torque wrenches Service MANOSKOP®

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



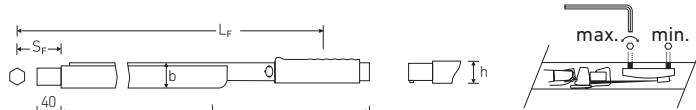
Product no.	Size	N·m	ft·lb	N·m	ft·lb	■	mm	L mm	b ₁ mm	b ₂ mm	h mm	L _F mm	S _F mm	g
96501054	2-1	2-10	-	0.5	-	1/4	9 x 12	250	60	22	55	157.2	17.5	480
96504002	2	4-20	-	0.5	-	3/8	9 x 12	255	55	33	55	157.2	17.5	455
96504004	4	8-40	-	1	-	3/8	9 x 12	285	55	33	55	200.8	17.5	642
96504005	5	6-50	5-36	2	-	3/8	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	24.5 x 28	970	46	43	990	95	4925



Key features of torque wrenches

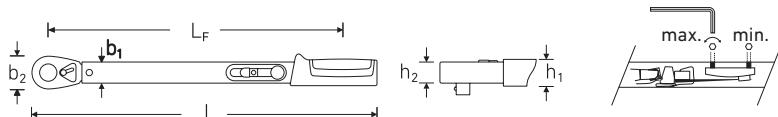
Standard MANOSKOP® 721 Quick

- 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 $\pm 4\%$**

721 Quick**Torque wrenches Standard MANOSKOP®**

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

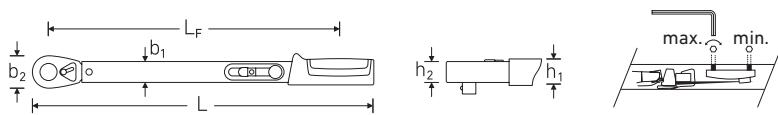


Product no.	Size	N·m	ft·lb	N·m	ft·lb	■	L mm	b1 mm	b2 mm	h1 mm	h2 mm	L_F mm	Number of teeth	g
50204005	5	6-50	5-36	2	1	3/8	352	28	27.5	23	14.5	293	30	880
50204015	15	30-150	25-110	5	5	1/2	452	28	41	23	18	387	36	1282
50204020	20	40-200	30-145	5	5	1/2	483	28	41	23	18	418	36	1349
50204030 ¹	30	60-300	50-220	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	b1 mm	b2 mm	h1 mm	h2 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

Torque technology

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

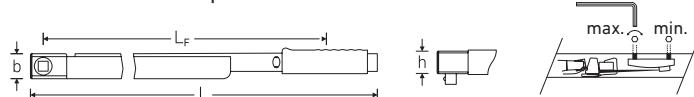
- easy adjustment without disassembly via 2 adjustment screws
- delivered in a textile bag
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy $\pm 4\%$**

720Nf/80



Torque wrench Standard MANOSKOP® with fixed square drive

- $\frac{3}{4}$ " 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	$\frac{3}{4}$	1034	45	42	938	5650

721Nf



721Nf/80



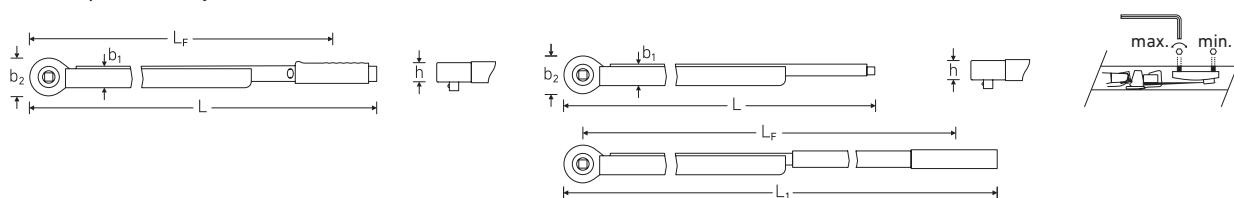
721Nf/100



Torque wrenches Standard MANOSKOP®

- $\frac{3}{4}$ " 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	$\frac{3}{4}$	1050.5	-	46.5	76	42	938	6380
96502001	100	200-1000	150-725	25	25	$\frac{3}{4}$	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)

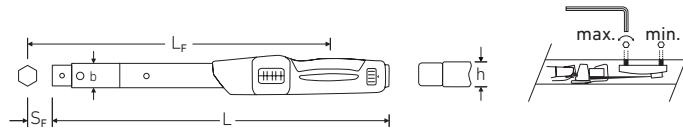
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- easy adjustment without disassembly via 2 adjustment screws
- with 2-component handle
- calibration certificate in accordance with DIN EN ISO 6789-2:2017

730N



Torque wrench Service MANOSKOP®

- dual scale N·m/in·lb
- with holder for interchangeable insert tools
- with QuickRelease safety lock



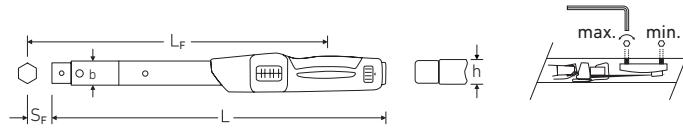
Product no.	Size	N·m	in·lb	N·m	in·lb	fine scale	mm	L mm	b mm	h mm	L_F mm	S_F mm	ΔΔ g
50181102	2	4-20	40-180	1	10	0.2 N·m	9 x 12	275	28	23	226	17.5	737

730N



Torque wrenches Service MANOSKOP®

- dual scale N·m/ft·lb
- with holder for interchangeable insert tools
- with QuickRelease safety lock



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	ΔΔ 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

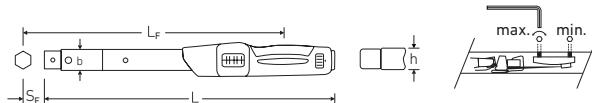
730Na



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 $\pm 3\%$ (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

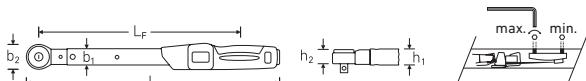
730NR



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 $\pm 4\%$**



Product no.	Size	N·m	ft-lb	N·m	ft-lb	fine scale	mm	L mm	b ₁ mm	b ₂ mm	h ₁ mm	h ₂ mm	L _F mm	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

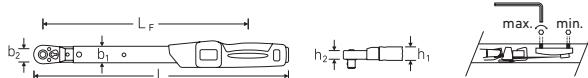


730NR QR



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 $\pm 4\%$**



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
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

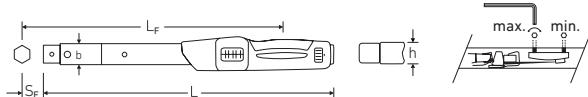
- clicking mechanism insensitive to continuous loads and counter-loads (up to the max. measuring range limit of the torque wrench)
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- easy adjustment without disassembly via 2 adjustment screws
- 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 $\pm 3\%$**

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	"	L mm	b mm	h mm	L _F mm	S _F 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



Triple safety

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

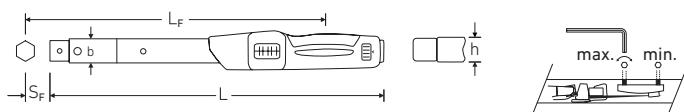
- the supplied TORX® Tamper Resistant locking screw also protects against tampering, as do the enclosed adhesive seals
- no adjustment possible without breaking the seal

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	ft-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!

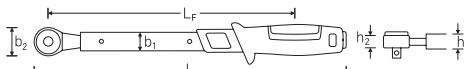
750NR



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 $\pm 4\%$**

Product no.	N·m	ft·lb	N·m	ft·lb	fine scale	“	L mm	b1 mm	b2 mm	h1 mm	h2 mm	L_F 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 SENSTORK® 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 SENSTORK® 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.



MADE IN CRONENBERG
MADE IN GERMANY

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

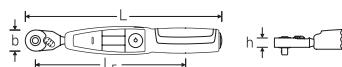


Electronic torque wrenches SENSTORK®

- indicating 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 $\pm 4\%$**



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

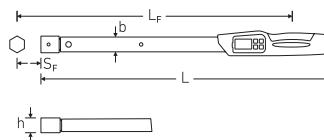
- additional locking of the presets (function mode, target value, unit of measure, tolerances, extension length deviation) by PIN code
- stores up to 7,500 tightening results
- USB interface for data transfer
- automatic warning of the next calibration date
- optimal calibration with perfectControl® 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 $\pm 2\%$, ± 1 digit**

730D



Electromechanical torque wrenches Service/Series MANOSKOP®

- in sturdy plastic box (sizes 40-100 in steel box)



Product no.	Size	Setting/Indicating display resolution			mm	L mm	b mm	h mm	L _F mm	S _F mm	g	g with box
		N·m	ft·lb	in·lb								
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
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
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
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
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
96502080	80	80-800	60-600	720-7200	1.0/0.1	1.0/0.1	10/1.0	22 x 28	1160	30.6	25.6	1157
96502100	100	100-1000	74-750	900-9000	1.0/0.1	1.0/0.1	10/1.0	22 x 28	1344	30.6	25.6	1341

* recommended ratchet insert tool No. 735/40HD

730DR



Electromechanical torque wrenches Service/Series MANOSKOP®

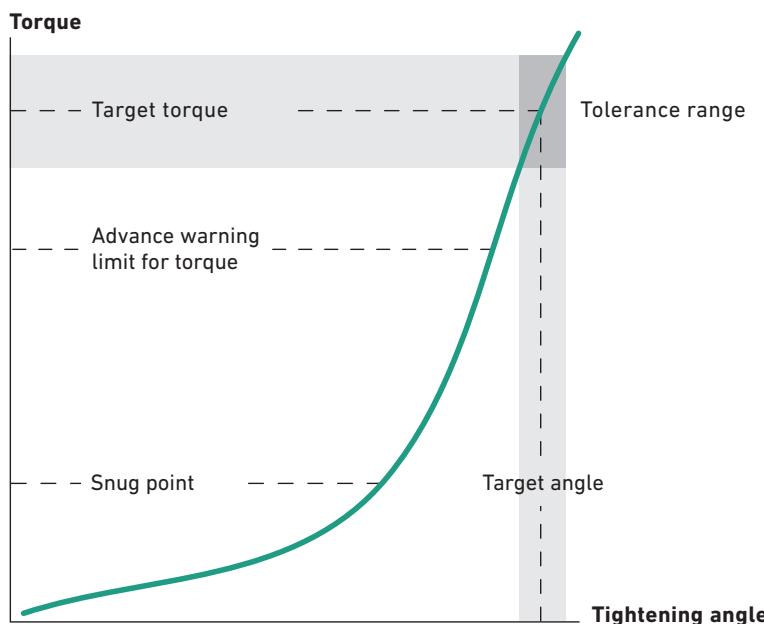
- includes reversible ratchet No. 735

- in sturdy plastic box (sizes 40-100 in steel box)

Product no.	Size	Setting/Indicating display resolution			mm	L mm	b mm	h mm	Number of teeth	g	g with box
		N·m	ft·lb	in·lb							
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
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
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
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
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
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
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

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

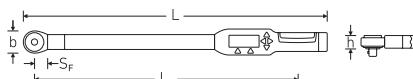
SENSOTORK® 713R | page 45

713R

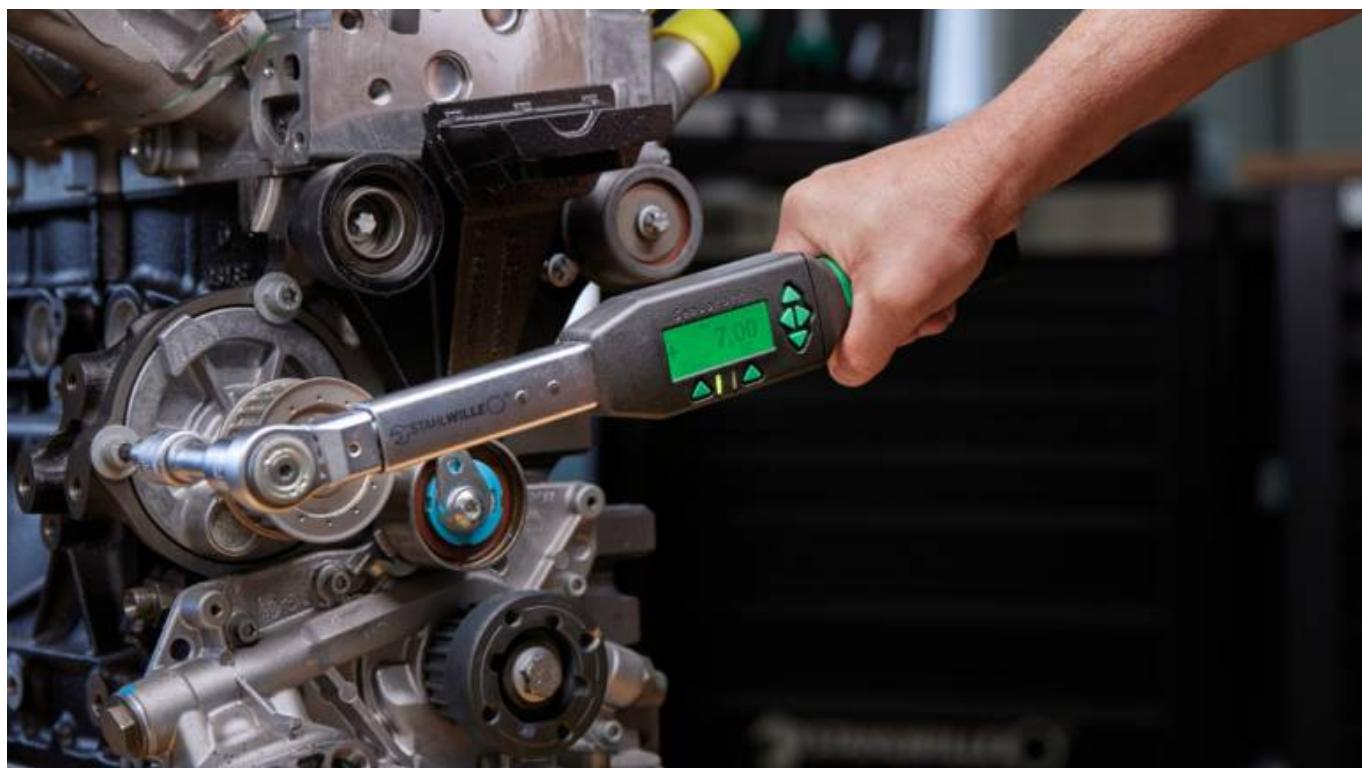


Electronic angle-controlled torque wrenches SENSOTORK®

- 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 $\pm 1^\circ$, ± 1 digit to 100° , $>100^\circ$ at least $1\%, \pm 1$ digit**
- **torque accuracy $\pm 1\%$, ± 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
96501620	20	10-200	7-148	1/2	14 x 18	608	43	26	524	25	60	1552
96501640	40	20-400	15-296	3/4	14 x 18	838	50	31.5	750	25	60	2332



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



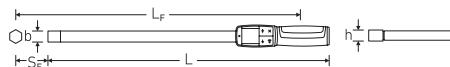
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714/80



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®

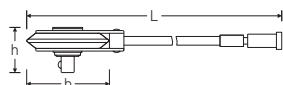
- with ratchet insert tool
- in sturdy plastic box (sizes 40-100 in steel box)
- **angle of rotation display resolution 0.1°**
- **angle of rotation accuracy ± 1°, ± 1 digit to 100°, >100° at least 1%, ± 1 digit**
- **torque display resolution ≤ 60 N·m: 0.01 N·m;**
> 60 N·m: 0.1 N·m; >400 N·m: 1 N·m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

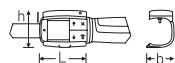
- for angle of rotation controlled screw tightening, with static read-off point
- reliable reading from any angle through 2 tapered scales
- with detachable magnet for attaching a 1/2" square drive socket
- to be used in conjunction with a tightening tool, e.g. Service MANOSKOP® No. 730N
- the choice 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	■	□	L mm	b mm	h mm	g
54010001	7380N	2°	1/2	1/2	416	78	43
54010002	7385N	2°	3/4	3/4	416	78	76

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**

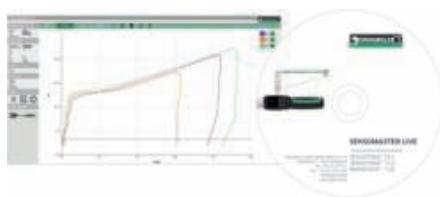
- connection between the transducer and the display device or USB adaptor
- with jack plugs, angled by 90° on one side

Product no.	for model	L m	Δ 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	Δ g
52110056	7750	110-230 V	201

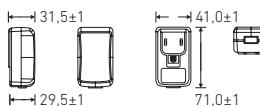
7732-2**SensoMaster software license**

- recording of screw tightening with the MANOSKOP® 714, SENSTORK® 713R (from firmware 4.X), SENSTORK® 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	Δ g
96585235	714, 713R, SENSTORK® 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	Δ 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.	Δ 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

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	Δ g
96583629	1.5	65

7759-5

- 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

7759-5**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	Δ g
96583630	1.5	65

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	Δ g
96583631	1.5	72

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 712R/6; 713R/6; 714/6-10; 730/10	26	4
54100071	2	Quick; 730/10 Fix; 730N/10; 730D/10	27	5
		713R/20-40; 714/20-40;		
54100072	3	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
		714/65-100; 730I/65; 730II/65		
54100074	5	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	$\Delta\Delta$ 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	$\Delta\Delta$ 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

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	$\Delta\Delta$ 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	$\Delta\Delta$ 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	$\Delta\Delta$ 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

TOOLS THAT
... **inspire**

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 $\frac{1}{4}$ " external square drive (6.3 DIN 3120/ISO 1174-1) and integrated ratchet function with 80 teeth, ratchet angle of 4.5°, for $\frac{1}{4}$ " 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 $\frac{1}{4}$ " inner square at the end of the handle (6.3 DIN 3120/ISO 1174-1) for accommodating a $\frac{1}{4}$ " 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 $\pm 4\%$**

Contains:

- 1 electromechanical torque screwdriver $\frac{1}{4}$ " **No. TORSIOTRONIC® 10:** measurement range: 100-1,000 cN·m
- 8 sockets with hex $\frac{1}{4}$ " **No. 40:** 4; 5; 5.5; 6; 7; 8; 9; 10 mm
- 3 bits PHILLIPS® $\frac{1}{4}$ " **No. PH 1221-1223:** PH1; PH2; PH3
- 3 bits POZIDRIV® $\frac{1}{4}$ " **No. PZ 1221-1223:** PZ1; PZ2; PZ3
- 4 screwdriver sockets INHEX $\frac{1}{4}$ " **No. 44K:** 3; 4; 5; 6 mm
- 5 screwdriver sockets TORX® $\frac{1}{4}$ " **No. 44KTX:** T8; T9; T10; T15; T20
- 5 screwdriver sockets TORX® with hole $\frac{1}{4}$ " **No. 44 KTXB:** T8; T9; T10; T15; T20

1 bit holder $\frac{1}{4}$ " **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.	Δ 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

- indicating 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 $\pm 4\%$**

Contains 32-pieces:

- 1 torque wrench $\frac{1}{4}$ " **No. 701/2:** measurement range: 1-20 N·m
- 11 sockets with hex $\frac{1}{4}$ " **No. 40:** 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm
- 1 QuickRelease extension $\frac{1}{4}$ " **No. 405QR:** L: 54 mm
- 1 bit holder $\frac{1}{4}$ " **No. 412**
- 3 bits PHILLIPS® $\frac{1}{4}$ " **No. PH 1221-1223:** PH1; PH2; PH3
- 3 bits POZIDRIV® $\frac{1}{4}$ " **No. PZ 1221-1223:** PZ1; PZ2; PZ3
- 4 bits hex $\frac{1}{4}$ " **No. 1301-1304:** 4; 5; 6; 8 mm
- 7 bits TORX® $\frac{1}{4}$ " **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.	Δ 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

- indicating 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.	Δ 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.	Δ 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 ISO 6789-2:2017
 - **accuracy ± 4%**

Contains 5-pieces:

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

Product no.	L mm	W mm	H mm	Content pcs.	$\odot\odot$ 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 $\frac{1}{2}$ " **No. 750NR/200**: measurement range: 40-200 N·m; 30-145 ft-lb
 3 IMPACT wheel nut sockets with hex $\frac{1}{2}$ " **No. 51IMP K**: 17 mm (green); 19 mm (blue); 21 mm (red)
 1 extension $\frac{1}{2}$ " **No. 509/5**: L. 130 mm

Product no.	L mm	W mm	H mm	Content pcs.	$\odot\odot$ 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 $\pm 4\%$

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 = ΣS . Where the special tool is angled to the side, adjusted reading or setting value W_K will have to be determined empirically.

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

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

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
 $L_K = L_F - S_F + S \text{ (or } \Sigma S \text{)}$

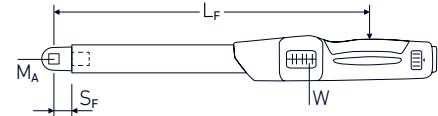
S = Extension of STAHLWILLE inserts or special tools (see dimension table for inserts)
 S_F = Standard extension (see dimension table for torque wrenches)
 ΣS = Total of all extensions of the attached inserts
 $S_{\text{adaptor}} + S_{\text{insert}} + \dots$



Normal situation

Torque wrench No 730N/10 combined with square drive insert tool No 734/5 and socket size 13 mm
Required tightening torque for the screw $M_A = 40 \text{ N}\cdot\text{m}$

Dimension table for torque wrenches: $S_F = 17.5 \text{ mm}$, $L_F = 336 \text{ mm}$
 Dimension table for square drive insert tools: $S = 17.5 \text{ mm}$

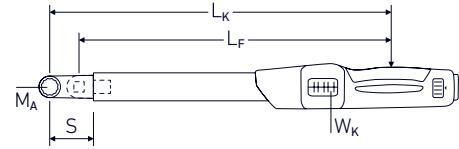


No adjustment to setting value required on torque wrench.
 $\rightarrow S = S_F$
 $\rightarrow W = M_A$

Example 1: adjusted setting value (1 insert tool)

Torque wrench No 730N/20 combined with ring insert tool No 732/40 size 36 mm
Required tightening torque for the screw $M_A = 190 \text{ N}\cdot\text{m}$

Dimension table for torque wrenches: $S_F = 25 \text{ mm}$, $L_F = 424.5 \text{ mm}$
 Dimension table for ring insert tools: $S = 28 \text{ mm}$



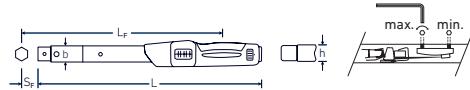
And this is what it looks like in the catalogue:

730N



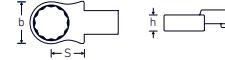
Service MANOSKOP® torque wrench

- 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 _r mm	S _r 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

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



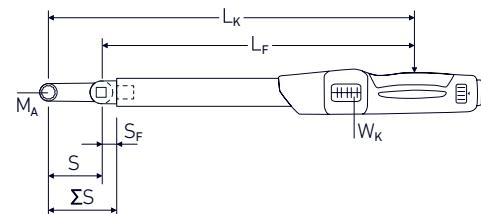
Product no.	O mm	a mm	b mm	h mm	S mm
58224013	13	14 x 18	22,5	11	25
58224014	14	14 x 18	23	11	25
58224015	15	14 x 18	24	11	25
58224016	16	14 x 18	25,5	12	25
58224017	17	14 x 18	27	12	25
58224018	18	14 x 18	29	13	25
58224019	19	14 x 18	30,5	13	25
58224021	21	14 x 18	33	15	25
58224022	22	14 x 18	34,5	15	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

Adjusted setting value $W_K = 188,7 \text{ N}\cdot\text{m}$
 $\rightarrow S \neq S_F$
 $\rightarrow W \neq M_A$

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 $M_A = 25 \text{ N}\cdot\text{m}$

Dimension table for torque wrenches: $L_F = 336 \text{ mm}$, $S_F = 17.5 \text{ mm}$
 Dimension table for square drive insert tools: $S_F = 17.5 \text{ mm}$
 Dimension table for adaptors: $\Sigma S = 50.8 \text{ mm}$



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

Adjusted setting value $W_K = 21.7 \text{ N}\cdot\text{m}$
 $\rightarrow \Sigma S \neq S_F$
 $\rightarrow W \neq M_A$

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	Δ g
58253004	4	1/4	9 x 12	22	13.8	17.5	16.4	40	50
58253005 *	5	5/16	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	° °	Δ 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	

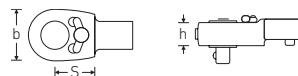
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

725/4



Ratchet insert tool

- for torque wrenches with interchangeable insert system
- reversible
- 22 teeth

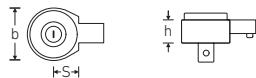


Product no.	■ "	■ mm	b mm	h mm	S mm	° °	max. N·m	Δ g
58254004	1/4	9 x 12	22	13.8	17.5	16.4	40	62



735**Fine-tooth ratchet insert tools**

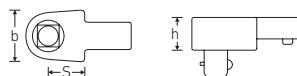
- for torque wrenches with interchangeable insert system
- reversible (also available as a clockwise-only ratchet on request)
- 60 teeth



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

734**Square drive insert tools**

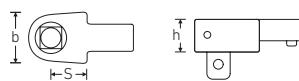
- for torque wrenches with interchangeable insert system
- with secured square drive



Product no.	Size	■ "	■ mm	b mm	h mm	S mm	max. N·m	ΔΔ 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**

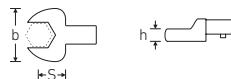
- for torque wrenches with interchangeable insert system
- with secured square drive



Product no.	Size	■ "	■ mm	b mm	h mm	S mm	max. N·m	ΔΔ 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	ΔΔ 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

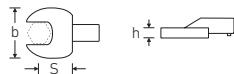
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

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.	ø "	ø 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



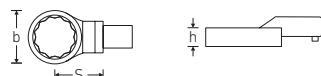
Product no.	ø mm	ø mm	b mm	h mm	S mm	g
58221007	7	9 x 12	13	8	17.5	37
58221008	8	9 x 12	14.2	8	17.5	40
58221010	10	9 x 12	17.2	9	17.5	44
58221011	11	9 x 12	18.5	9	17.5	41
58221012	12	9 x 12	20.5	11	17.5	49
58221013	13	9 x 12	21.5	11	17.5	55
58221014	14	9 x 12	22.5	11	17.5	52
58221015	15	9 x 12	24.5	12	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.	ø "	ø 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



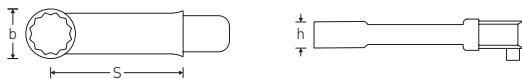
Product no.	Size	ø mm	b mm	h mm	S mm	g
58291006	E6	9 x 12	13	8	17.5	40
58291008	E8	9 x 12	14.2	8	17.5	45
58291010	E10	9 x 12	17.2	9	17.5	45
58291012	E12	9 x 12	18.5	9	17.5	50
58291014	E14	9 x 12	21.5	11	17.5	60

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.	Ø 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

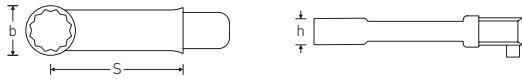
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

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.	Ø mm	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

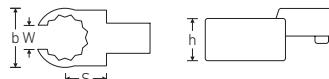
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

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.	Ø mm	mm	b mm	h mm	W mm	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

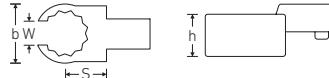
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

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



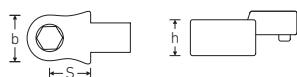
Product no.	Ø mm	mm	b mm	h mm	W mm	S mm	g
58631024	3/8	9 x 12	21.5	11	7.1	17.5	55
58631028	7/16	9 x 12	22.5	11	8.6	17.5	56
58631032	1/2	9 x 12	26	12	9.5	17.5	58
58631034	9/16	9 x 12	27.5	13	11	17.5	59
58631036	5/8	9 x 12	30.5	13	12.7	17.5	61
58631038	11/16	9 x 12	33	15	14	17.5	48
58631040	3/4	9 x 12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



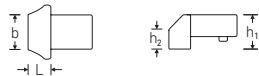
Product no.	Size	O mm	O "	S mm	b mm	h mm	S mm	$\Delta\Delta$ g
58261010	10	D 8	5/16	9 x 12	16	12.5	17.5	47
58262610	10-1	D 6.3	1/4	9 x 12	14	10	17.5	45

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



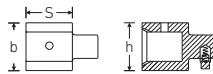
Product no.	Welding dimensions $h_2 \times b$ in mm	S mm	L mm	h_2 mm	$\Delta\Delta$ g
58270010	8 x 14	9 x 12	8	14.5	35

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.	O mm	S mm	L mm	b mm	h mm	S mm	$\Delta\Delta$ g
58290010	14 x 18	9 x 12	55	31	26	30.5	118

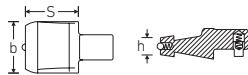
* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

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.	S mm	S mm	L mm	b mm	h mm	S mm	$\Delta\Delta$ g
58290012	9.5 x 23.5	9 x 12	40	23.5	9.5	24	51

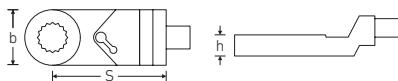
* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

717



Ratchet ring insert tools

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



Product no.	O_D mm	S mm	b mm	h mm	S mm	$\Delta\varphi$ °	max. N·m	$\Delta\varphi$ 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.	S mm	L mm	$\Delta\varphi$ 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	S mm	S mm	b mm	h mm	S mm	$\Delta\varphi$ °	max. N·m	$\Delta\varphi$ g
58253020	20	1/2	14 x 18	41	22.3	38.5	10	200	325

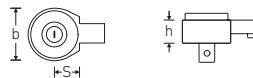
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

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	S mm	S mm	b mm	h mm	S mm	$\Delta\varphi$ °	max. N·m	$\Delta\varphi$ 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

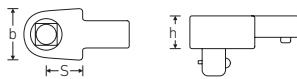
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

734



Square drive insert tools

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



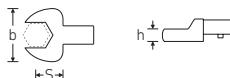
Product no.	Size		mm	b	mm	h	mm	S	mm	max. N·m	ΔΔ g
58240020	20		1/2	14 x 18	27	18	25	300		205	
58240040	40		3/4	14 x 18	40	25	25	650		396	

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	ΔΔ 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		

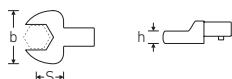
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

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		mm	b	mm	h	mm	S	mm	ΔΔ 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		

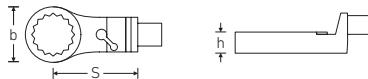
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

718



Ratchet ring insert tools

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

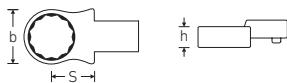


Product no.		mm		mm	b	mm	h	mm	S	mm	ΔΔ g
58170217		17		14 x 18	32.5	10.6	52	5	200		166
58170219		19		14 x 18	35.5	11.5	52	5	200		182
58170221		21		14 x 18	42	13.8	52	5	330		222
58170222		22		14 x 18	42	13.8	52	5	360		216
58170224		24		14 x 18	47	14.6	52	5	360		252
58170227		27		14 x 18	52	15.6	55	5	360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

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

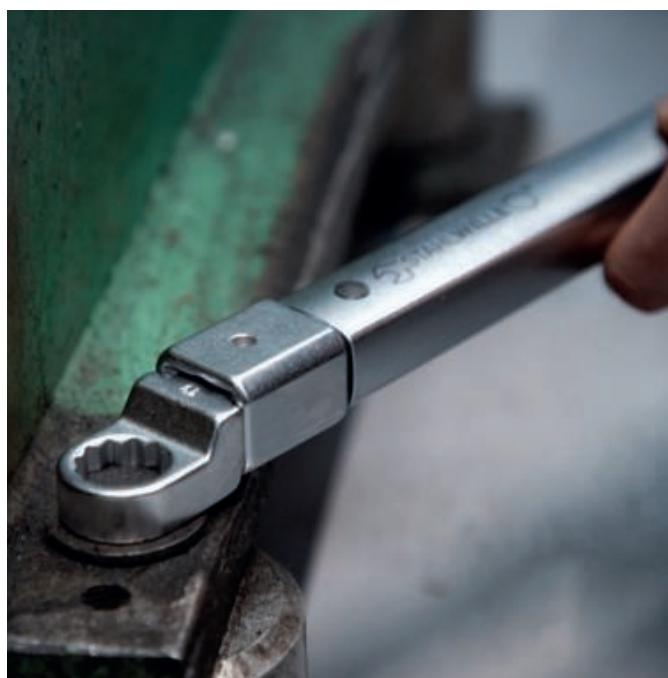
732/40**Ring insert tools**

- 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.	\textcircled{O} mm	\textcircled{S} mm	b mm	h mm	S mm	$\Delta\Delta$ 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**

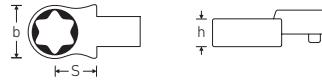
- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	\textcircled{O} mm	\textcircled{S} mm	b mm	h mm	S mm	$\Delta\Delta$ 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**

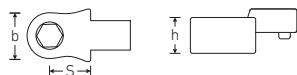
- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	Size	\textcircled{S} mm	b mm	h mm	S mm	$\Delta\Delta$ 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**

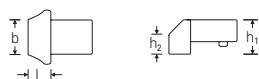
- for torque wrenches with interchangeable insert system
- hex with collar-thrust spring
- bits are easy to insert, lock securely into place, and can be easily pulled out again



Product no.	O "	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**

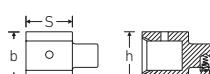
- for welding on custom-made tools
- for torque wrenches with interchangeable insert system
- gunmetal finish
- to avoid damage due to high temperatures, the pin and spring must not be fitted before the tool has been welded
- instructions are provided
- material: 1.2208 - 31CRV3



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.	O 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

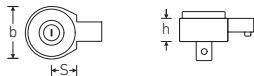
Product no.		mm	L	mm		g
18210001		14 x 18		575		720

735/65



Fine-tooth ratchet insert tool

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



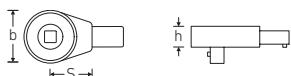
Product no.		mm	b	mm	h	mm	S	mm		max. N·m		g
58251065		3/4	22	28	61	35	55			6	650	1115

735/100



Ratchet insert tool

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



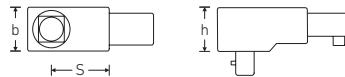
Product no.		mm	b	mm	h	mm	S	mm		max. N·m		g
58250100		3/4	22	28	76	42	55			12	1000	1893

734/100



Square drive insert tool

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



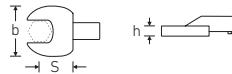
Product no.		mm	b	mm	h	mm	S	mm		g
58240100		3/4	22	28	43	42	55			1175

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

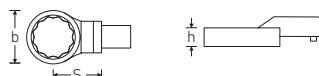


Product no.		mm		mm	b	mm	h	mm	S	mm		g
58211024		24		22	28	50	13		55			618
58211027		27		22	28	56	14		55			640
58211030		30		22	28	63	15		55			690
58211032		32		22	28	67	15		55			705
58211034		34		22	28	72	15		55			731
58211036		36		22	28	74	15		55			713
58211041		41		22	28	84	16		55			894
58211046		46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

TOOLS THAT
... inspire

732/100**Ring insert tools**

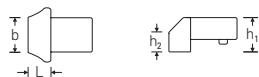
- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	O° mm	S° mm	b mm	h mm	S mm	$\Delta\Delta$ 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 $h_2 \times b$ in mm	S° mm	L mm	h_1 mm	$\Delta\Delta$ g
58270100	15 x 50	22 x 28	24	32	483

7370/100**Insert tool adaptor**

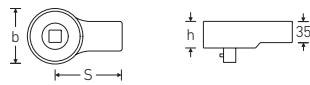
- for use with 24.5 x 28 mm shell tools with torque wrenches with an internal insert system of 22 x 28 mm

Product no.	S° mm	S° mm	L mm	b mm	h mm	S mm	$\Delta\Delta$ 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**

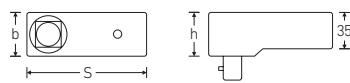
- for torque wrenches with a carrier for shell tools
- with push-through square drive
- 30 teeth



Product no.	S° mm	S° mm	b mm	h mm	S mm	$\Delta\Delta$ g	
58250080	$\frac{3}{4}$	24.5 x 28	76	43	95	12	1930

734/80**Square drive shell tool**

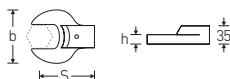
- for torque wrenches with a carrier for shell tools
- with push-through square drive



Product no.	S° mm	S° mm	b mm	h mm	S mm	$\Delta\Delta$ g
58240080	$\frac{3}{4}$	24.5 x 28	49	42	95	1200

731/80**Open-ended shell tools**

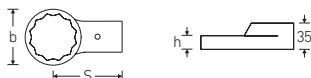
- for torque wrenches with a carrier for shell tools
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	O° mm	S° mm	b mm	h mm	S mm	$\Delta\Delta$ 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**

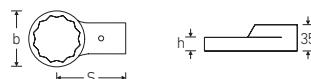
- bi-hex with AS-Drive profile
- for torque wrenches with a carrier for shell tools
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	O° mm	S° mm	b mm	h mm	S mm	$\Delta\Delta$ 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**

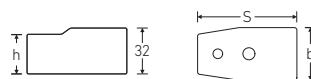
- bi-hex with AS-Drive profile
- for torque wrenches with a carrier for shell tools
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable
- for power pack bolts (Airbus A320/A321)



Product no.	O° mm	S° mm	b mm	h mm	S mm	$\Delta\Delta$ g
58628046	$15/16$	24.5 x 28	36	14	95	604
58628050	$1\frac{1}{16}$	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.	O° mm	S° mm	b mm	h mm	S mm	$\Delta\Delta$ 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.	S° mm	L mm	$\Delta\Delta$ g
18220003	24.5 x 28	1000	2057

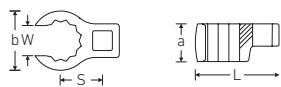
Product no.	O° mm	S° mm	b mm	h mm	S mm	$\Delta\Delta$ g
58228024	24	24.5 x 28	36	15	95	605
58228027	27	24.5 x 28	40.5	15	95	610
58228030	30	24.5 x 28	46	16	95	630
58228032	32	24.5 x 28	49	16	95	635
58228034	34	24.5 x 28	52	17	95	650
58228036	36	24.5 x 28	54	17	95	650
58228041	41	24.5 x 28	61	18	95	675
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

440



Crowning spanners

- bi-hex with AS-Drive profile
- Chrome Alloy Steel, chrome-plated



Product no.	$\text{\textcircled{O}}$ mm	$\text{\textcircled{O}}$ "	L mm	b mm	a mm	W mm	S mm	$\Delta\Delta$ 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



Crowning spanners

- bi-hex with AS-Drive profile
- Chrome Alloy Steel, chrome-plated
- 3/8" for Volvo aircraft engine, type 'JAS'



Product no.	$\text{\textcircled{O}}$ mm	$\text{\textcircled{O}}$ "	L mm	b mm	a mm	W mm	S mm	$\Delta\Delta$ 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

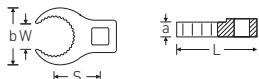
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

440S MJ



Crowring spanners

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



Product no.	Nut thread	Ø mm	Ø "	L mm	b mm	a mm	W mm	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

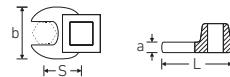
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

540



Crowfoot spanners

- Chrome Alloy Steel, chrome-plated



Product no.	Ø mm	Ø "	L mm	b mm	a mm	S mm	g
01200008	8	1/4	25.5	19.8	6.3	14.6	19
01200009	9	5/16	25.5	19.8	6.3	14.6	21
01200010	10	3/8	25.5	19.8	6.3	14.6	20
02200011	11	7/16	32	22.2	6.3	17.4	36
02200012	12	13/32	34.3	25.4	6.3	18.2	37
02200013	13	1/2	34.3	25.4	6.3	17.8	36
02200014	14	9/32	37.7	30	6.3	20.8	46
02200015	15	5/8	37.7	30	6.3	20.4	45
02200016	16	15/32	37.7	30	6.3	19.9	45
02200017	17	11/32	42.5	38	6.3	23.8	62
02200018	18	3/4	42.5	38	6.3	22.9	61
02200019	19	13/32	42.5	38	6.3	22.4	64
02200020	20	17/32	42.4	38	6.3	25	55
02200021	21	1/2	44.5	41	6.3	23.6	59
02200022	22	19/32	44.5	41	6.3	24.2	64
02200023	23	5/8	44.5	41	6.3	25.8	64
02200024	24	11/32	44.4	41	6.3	26.3	60
02200025	25	3/4	47	45	8	26.4	75
02200026	26	13/32	47	45	8	27.6	80
02200027	27	7/16	47	45	8	27.6	76
02200028	28	15/32	50	50	8	29.2	78
02200030	30	1/2	50	50	8	29.3	84
02200032	32	17/32	53	57	8	30.5	95
02200034	34	19/32	54.5	60	8	31.6	107
02200036	36	13/16	56.5	62	8	32.8	100
02200040	40	11/8	63	70	8	37.6	130
02200041	41	15/16	63	70	8	37.2	130
02200042	42	17/8	63	70	8	37.7	125
02200046	46	13/4	72	82	8	43.1	191
02200050	50	17/8	75	88	8	45.4	217

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

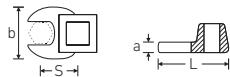
TOOLS THAT
... inspire

540a



Crowfoot spanners

— Chrome Alloy Steel, chrome-plated



Product no.	O° "	O "	L mm	b mm	a mm	S mm	ΔO g
01500024	$\frac{3}{8}$	$\frac{1}{4}$	25.5	19.8	6.3	14.6	17
02500028	$\frac{7}{16}$	$\frac{3}{8}$	32	22.2	6.3	17.2	34
02500032	$\frac{1}{2}$	$\frac{3}{8}$	34.3	25.4	6.3	18.1	37
02500034	$\frac{9}{16}$	$\frac{3}{8}$	37.7	30	6.3	20.9	40
02500036	$\frac{5}{8}$	$\frac{3}{8}$	37.7	30	6.3	20.4	44
02500038	$\frac{11}{16}$	$\frac{3}{8}$	42.5	38	6.3	24.1	62
02500040	$\frac{3}{4}$	$\frac{3}{8}$	42.5	38	6.3	24	66
02500042	$\frac{13}{16}$	$\frac{3}{8}$	42.3	38	6.3	24	59
02500044	$\frac{7}{8}$	$\frac{3}{8}$	44.5	41	6.3	25.8	65
02500048	1	$\frac{3}{8}$	47	45	8	26.7	78
02500050	$1\frac{1}{16}$	$\frac{3}{8}$	47	45	8	27.2	78
02500052	$1\frac{1}{8}$	$\frac{3}{8}$	50	50	8	28.5	84
02500054	$1\frac{3}{16}$	$\frac{3}{8}$	50	50	8	29.2	83
02500056	$1\frac{1}{4}$	$\frac{3}{8}$	53	57	8	30.3	101
02500058	$1\frac{5}{16}$	$\frac{3}{8}$	53	57	8	31.2	101
02500060	$1\frac{3}{8}$	$\frac{3}{8}$	54.5	60	8	32.3	105
02500062	$1\frac{7}{16}$	$\frac{3}{8}$	56.5	62	8	33.1	107
02500064	$1\frac{1}{2}$	$\frac{3}{8}$	58	65	8	34.5	118
02500065	$1\frac{9}{16}$	$\frac{3}{8}$	59.5	68	8	35.7	126
02500066	$1\frac{5}{8}$	$\frac{3}{8}$	63	70	8	37.3	140
02500067	$1\frac{11}{16}$	$\frac{3}{8}$	63	70	8	37.7	126
02500068	$1\frac{3}{4}$	$\frac{3}{8}$	68	76	8	40.4	161
02500070	$1\frac{7}{8}$	$\frac{3}{8}$	72	82	8	42	205
02500072	2	$\frac{3}{8}$	75	88	8	44.8	214
02500074	$2\frac{1}{8}$	$\frac{3}{8}$	75.6	91	10	46	265
02500076	$2\frac{1}{4}$	$\frac{3}{8}$	80.5	96	10	49.5	297
03500078	$2\frac{3}{8}$	$\frac{1}{2}$	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.	O° "	O "	L mm	b mm	a mm	S mm	ΔO g
02501024	$\frac{3}{8}$	$\frac{3}{8}$	39	26	11	24	56
02501028	$\frac{7}{16}$	$\frac{3}{8}$	40	26	11	25	56
02501032	$\frac{1}{2}$	$\frac{3}{8}$	42	30	11	25.8	64
02501034	$\frac{9}{16}$	$\frac{3}{8}$	43.4	32	11	26.8	52
02501036	$\frac{5}{8}$	$\frac{3}{8}$	45	34.8	11	27.7	58
02501038	$\frac{11}{16}$	$\frac{3}{8}$	47.2	38	11	28.6	69
02501040	$\frac{3}{4}$	$\frac{3}{8}$	49	41	11	29.6	94
02501042	$\frac{13}{16}$	$\frac{3}{8}$	51	46.4	11	30.5	113
02501044	$\frac{7}{8}$	$\frac{3}{8}$	52	48	11	31.3	99
02501046	$\frac{15}{16}$	$\frac{3}{8}$	54	51.2	11	32.3	129
02501048	1	$\frac{3}{8}$	56	53.4	11	33.2	133
02501050	$1\frac{1}{16}$	$\frac{3}{8}$	57	53.8	11	34.1	124
02501052	$1\frac{1}{8}$	$\frac{3}{8}$	59	53.8	11	35	128
02501054	$1\frac{9}{16}$	$\frac{3}{8}$	60	56	11	35.9	144
02501056	$1\frac{1}{4}$	$\frac{3}{8}$	62	60	11	36.8	153
02501058	$1\frac{5}{16}$	$\frac{3}{8}$	63	56	11	27.9	156
02501060	$1\frac{3}{8}$	$\frac{3}{8}$	65	62	11	38.7	178
02501062	$1\frac{7}{16}$	$\frac{3}{8}$	66.5	66	11	39.6	172
03501064	$1\frac{1}{2}$	$\frac{1}{2}$	76	70	16	45	310
03501069	$1\frac{13}{16}$	$\frac{1}{2}$	85	84	16	49.6	400
03501072	2	$\frac{1}{2}$	89	90	16	52.3	451
03501074	$2\frac{1}{8}$	$\frac{1}{2}$	91.5	92.8	16	54.2	460
03501075	$2\frac{9}{16}$	$\frac{1}{2}$	93	96	16	55.1	480
03501076	$2\frac{1}{4}$	$\frac{1}{2}$	95	99	16	56	500

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

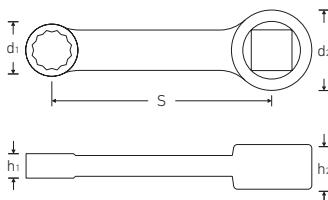
TOOLS THAT
...inspire

447



Adapters

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



Product no.	$\text{\textcircled{O}}$ mm	$\text{\textcircled{O}}$ "	d_1 mm	d_2 mm	h_1 mm	h_2 mm	S mm	$\Delta\Delta$ 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

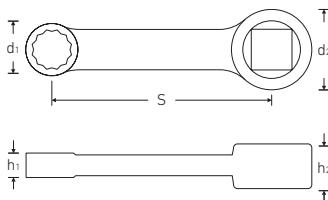
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

447a



Adapters

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



Product no.	$\text{\textcircled{O}}$ "	$\text{\textcircled{O}}$ "	d_1 mm	d_2 mm	h_1 mm	h_2 mm	S mm	$\Delta\Delta$ 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

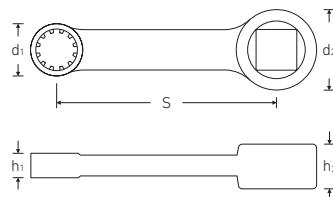
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

447aSP



Adapters

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



Product no.	$\text{\textcircled{O}}$ mm	$\text{\textcircled{O}}$ "	d_1 mm	d_2 mm	h_1 mm	h_2 mm	S mm	$\Delta\Delta$ 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

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'.

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.	Ø "	N·m ₁	ft·lb ₁	N·m ₂	ft·lb ₂	Gear ratio	Torque ratio	L mm	b mm	h mm	ΔΔ g	ΔΔ 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

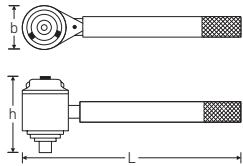


MP300-5000

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	■	Ø "	N·m ₁	ft·lb ₁	N·m ₂	ft·lb ₂	Gear ratio	Torque ratio	L mm	b mm	h mm	ΔΔ g	ΔΔ 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	∅ Ø 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 8-pieces:

1 pinion; 1 pawl; 1 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.	Content g
19040002	735/20	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.	Content g
19040000	721/15, 721/15 Quick, 721/20, 721/20 Quick	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.	Content g
59191030	721/30, 721/30 Quick	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.	Content g
19041020	725QR/10	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.	Content g
59251010	735/10	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.	Content g
59251020	515, 735/20	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.	Content g
59191080	721Nf/80, 721Nf/100, 735/80, 735/100	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.	Content g
59251040	735/40	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.	Content g
59251065	735/40HD; 735/65	7	429

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'.

SQUARE DRIVES.

70V



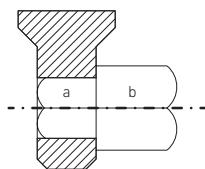
502 1/2



70V 16

Square drives

— for torque wrenches and insert tools



Product no.	Size	for model	a	b	L mm	$\Delta\Delta$ 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.	per measurement unit
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.	per measurement unit
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 SENOTORK® 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.

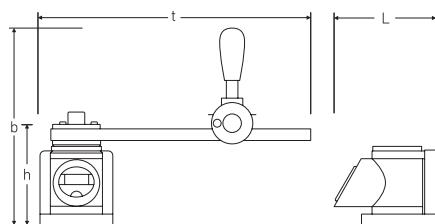
TEST EQUIPMENT AND CALIBRATION SYSTEMS.

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

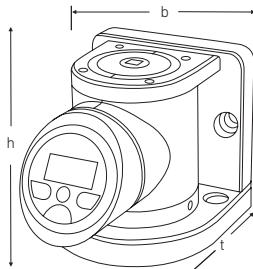
SmartCheck USB



Torque testers

- for testing indicating and clicking type torque wrenches
- with interchangeable square drive adaptors for square drives (from $\frac{3}{8}$ " to $\frac{1}{4}$ " with SmartCheck 100 USB; from $\frac{3}{4}$ " to $\frac{1}{2}$ " 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 $\pm 1\%$**



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

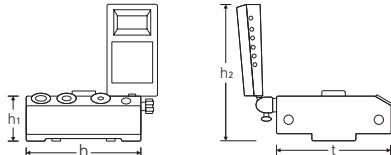
7707 W



Electronic workshop testing devices SENSTORK®

- 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 $\pm 1\%$**



Product no.	Model	N·m	Ø "	t mm	b mm	h ₁ mm	h ₂ mm	g 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 screwdrivers² with square drive adaptor No. 409M (1/4" Ø x 1/2" ■)³ with square drive adaptor No. 7798-4 (1/4" Ø x 1/2" ■), No. 7789-5 (3/8" Ø x 1/2" ■)⁴ with square drive adaptor No. 7787 (1/4" Ø x 3/4" ■), No. 7788 (3/8" Ø x 3/4" ■), No. 7789 (1/2" Ø 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 CRUMIÈRE
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.



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" ■) 409M (1/4" O x 3/8" ■)	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 (3/8" 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

Motorised calibration system 7794-2



Manual calibration system 7794-1

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 3/8" ■) 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 3/8" ■) 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 3/8" ■) 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 3/8" ■) 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 (1/4" ■) 734K/100 (3/4" ■)	734K/4 (1/4" ■) 734K/5 (3/8" ■) 734K/12 (3/8" ■) 734K/20 (1/2" ■) 734K/40 (1/4" ■) 734K/100 (3/4" ■)	734K/4 (1/4" ■) 734K/5 (3/8" ■) 734K/12 (3/8" ■) 734K/20 (1/2" ■) 734K/40 (1/4" ■) 734K/100 (3/4" ■)	734K/4 (1/4" ■) 734K/5 (3/8" ■) 734K/12 (3/8" ■) 734K/20 (1/2" ■) 734K/40 (1/4" ■) 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

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

Contains:

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

IS IT WORTH HAVING YOUR OWN CALIBRATION UNIT?

Calculate the ROI easily online.

1

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.

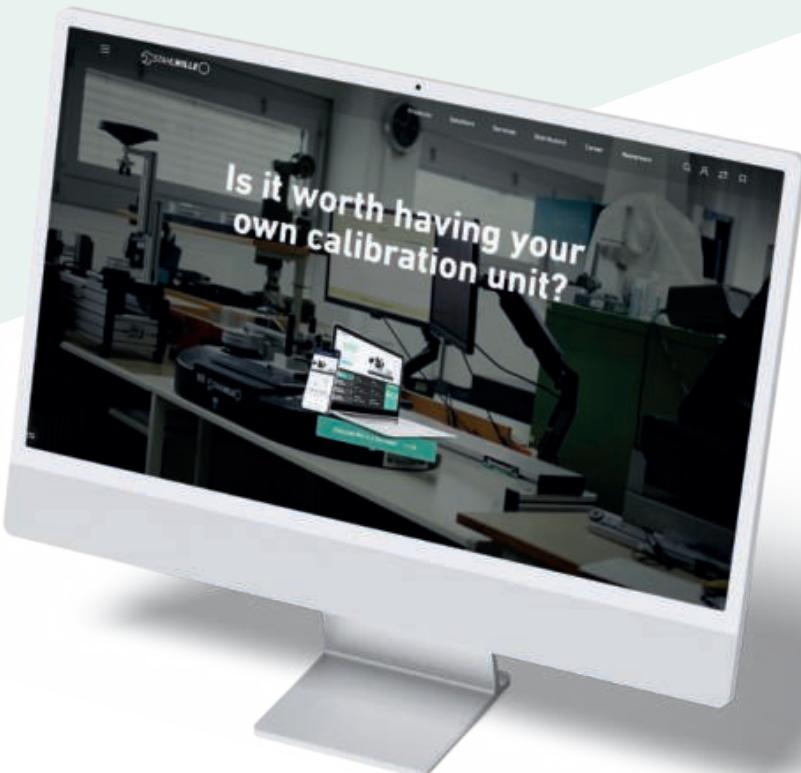
With a calibration system from STAHLWILLE, companies benefit from maximum process reliability, reliable quality control and maximum efficiency.

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



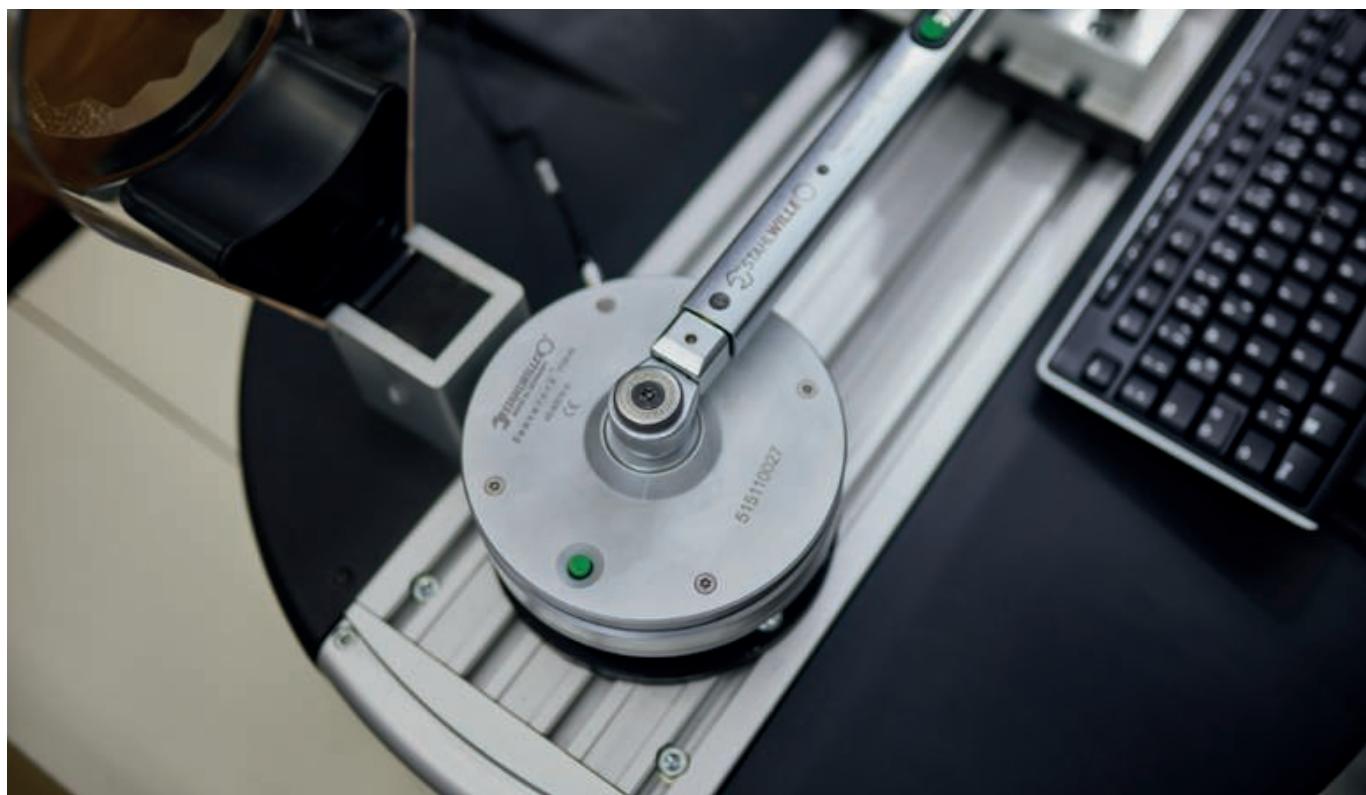
Laboratory transducers

- 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 $\pm 0.5\%$ of the measured value**

Product no.	Size	\textcircled{O} "	Accuracy $\pm 0.5\%$ of the measured value N·m	Accuracy $\pm 0.5\%$ of the measured value ft·lb	Accuracy $\pm 0.5\%$ of the measured value in·lb	$\Delta\Delta$ g	$\Delta\Delta$ 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	$1 \frac{1}{2}$	300-3000	221-2214	2655-26553	10500	12000

¹ for calibrating torque screwdrivers

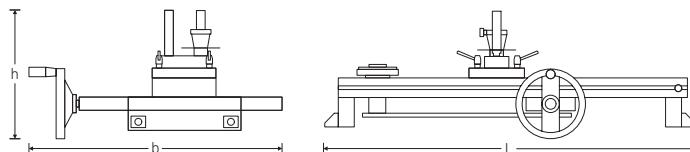
² for use with mechanical calibration systems No. 7792, 7792-1



MANUTORK® 7791

**Manual calibration system**

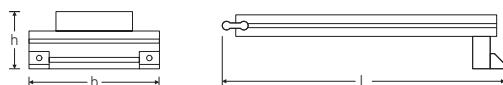
- the special power transmission system prevents the force application point from shifting
- the handwheel drives a lever linearly via a spindle, whereby this movement is converted into a rotary movement of the transducer
- 2 ball-bearing bushings ensure a friction-free contact surface and enable the horizontal alignment of the wrench



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 $\pm 1\%$ of the measured value**

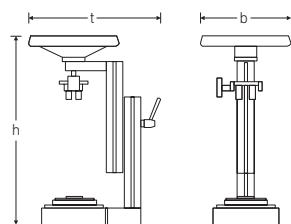
Product no.	Model	Ø "	Accuracy ± 1 % of the measured value N·m	Accuracy ± 1 % of the measured value ft·lb	Accuracy ± 1 % of the measured value in·lb	g	g with box
96521021 ¹	7721	1/4	0.2-10	0.15-7.4	1.8-88.5	1735	2411
96521000	7721-0	1/4	0.2-10	0.15-7.4	1.8-88.5	1735	2411
96521026	7721-1	1/4	0.4-20	0.3-15	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

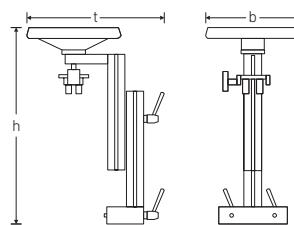
7750-1**Bracket**

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

Product no.	for model	L mm	kg
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.	kg
96585224	17	1980

STAHLWILLE DAKKS CALIBRATION LABORATORY –

Audited. Documented. Certified.

1

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.



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**

- $\frac{1}{4}$ to $\frac{3}{8}$ "
- Chrome Alloy Steel, chrome-plated

Product no.	■ "	○ "	L mm	△ g
11030010	$\frac{3}{8}$	$\frac{1}{4}$	13	14

7789-2

**Square drive adaptor**

- $\frac{3}{4}$ to $1\frac{1}{2}$ "

Product no.	■ "	○ "	L mm	△ g
58523089	$1\frac{1}{2}$	$\frac{3}{4}$	44	380

7787

**Square drive adaptor**

- $\frac{1}{4}$ to $\frac{3}{4}$ "

Product no.	■ "	○ "	L mm	△ g
58521087	$\frac{3}{4}$	$\frac{1}{4}$	15.5	41

7789-3

**Square drive adaptor**

- 1 to $1\frac{1}{2}$ "

Product no.	■ "	○ "	L mm	△ g
58524089	$1\frac{1}{2}$	1	44	280

7788

**Square drive adaptor**

- $\frac{3}{8}$ to $\frac{3}{4}$ "

Product no.	■ "	○ "	L mm	△ g
58521088	$\frac{3}{4}$	$\frac{3}{8}$	23.5	50

7789-4

**Square drive adaptor**

- $\frac{1}{4}$ to $\frac{1}{2}$ "

Product no.	■ "	○ "	L mm	△ g
58524090	$\frac{1}{2}$	$\frac{1}{4}$	15.5	25

7789

**Square drive adaptor**

- $\frac{1}{2}$ to $\frac{3}{4}$ "

Product no.	■ "	○ "	L mm	△ g
58521089	$\frac{3}{4}$	$\frac{1}{2}$	23.5	40

7789-5

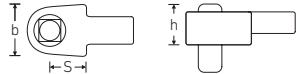
**Square drive adaptor**

- $\frac{3}{8}$ to $\frac{1}{2}$ "

Product no.	■ "	○ "	L mm	△ g
58524091	$\frac{1}{2}$	$\frac{3}{8}$	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



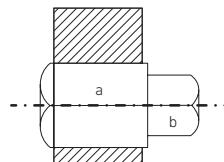
Product no.	Size	■ "	■ mm	b mm	h mm	S mm	Δ g
58243004	4	1/4	9 x 12	20	16.7	17.5	76
58243005	5	3/8	9 x 12	20	16.7	17.5	76
58243012	12	3/8	14 x 18	27	21.5	25	199
58243020	20	1/2	14 x 18	27	21.5	25	218
58243040	40	3/4	14 x 18	40	29.3	25	410
58241100	100	3/4	22 x 28	43	29.3	55	907

70VK

1

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	■ "	■ mm	L mm	Δ 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



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 of 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
- ✓ Return of serviced product



Discover the MySTAHLWILLE service portal.



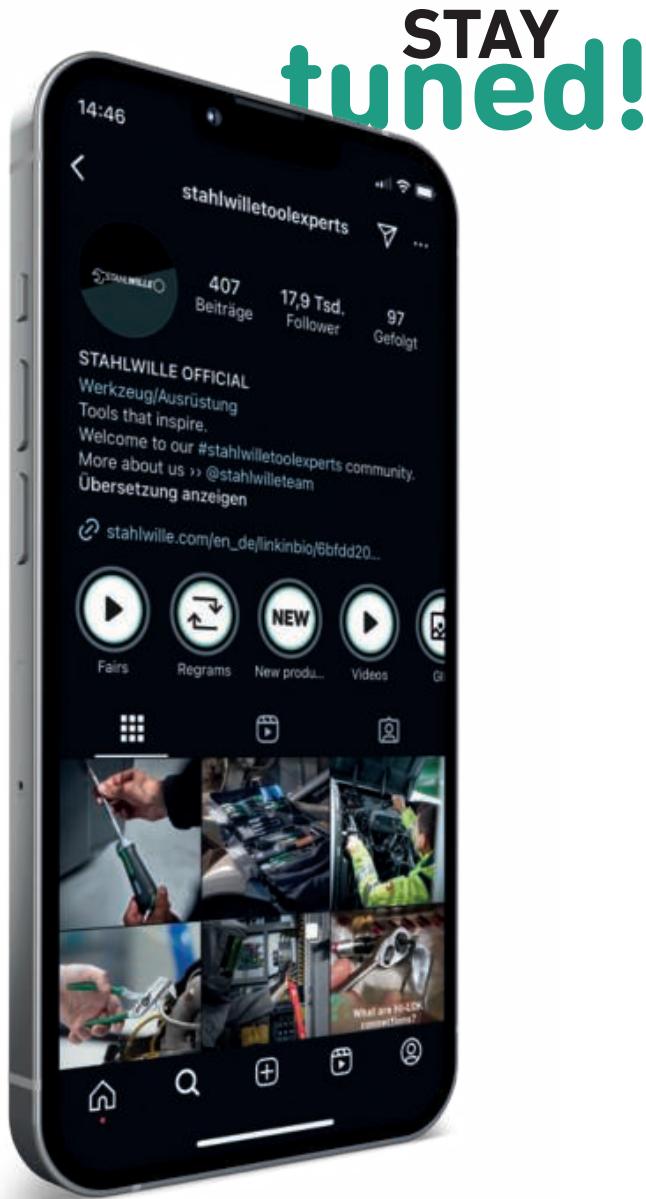
Technical support can be reached quickly via MySTAHLWILLE. Experienced experts support you with all technical questions relating to your products.
service.stahlwille.com



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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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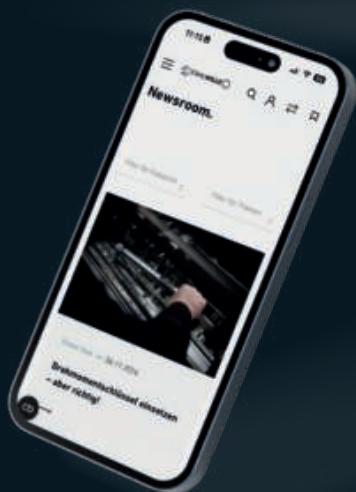
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