Accredited by the highest authority.

STAHLWILLE's calibration laboratory.

Controlled tightening of fasteners is becoming increasingly important and is a must for safety and quality assurance. As clear confirmation of its expertise in the field of controlled tightening, STAHLWILLE is accredited by the DAkkS accreditation authority (Deutsche Akkreditierungsstelle) as an approved calibration laboratory for »torque«.





SmartCheck

Tester for torque wrenches and torque screwdrivers

- compact construction
- for horizontal or vertical mounting
- o display, display mount and base body can be rotated through 180°
- three operating modes (track, first peak, peak hold)
- three measuring units (N·m, ft·lb, in·lb)
- the target torque and tolerances can be set individually to evaluate the readings
- operating mode using a mains adapter or battery (4 x AAA or 1 x 9 V block, adapter included)
- with integrated visual and audible overload protection mechanism
- the display and keypad are splash-proof, and the housing is made of impact-resistant plastic
- with certificate
- supplied in sturdy plastic box
- display deviation value ± 1%

SmartCheck

Torque Tester

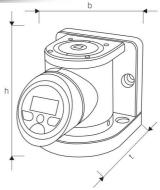












code	No	capacity N·m	capacity ft·lb	capacity in·lb	Ö	b mm	h mm	t mm	₽ g
96521201 96521202 96521203 96521204	SmartCheck 105 * SmartCheck 10 SmartCheck 100 SmartCheck 400	1-10 1-10 10-100 40-400	0.74-7.4 0.74-7.4 7-74 30-295	8.9-88.5 8.9-88.5 89-885 354-3540	1/4 1/4 3/8 3/4	120 120 120 120	124 124 124 124	167 167 167 167	5210 5210 5310 5690
96521205	SmartCheck 800	80-800	59-590	708-7081	3/4	120	124	167	5690

^{*)} for checking torque screwdrivers

Electronic torque tester for torque wrenches SENSOTORK® 7707 W (For complete calibration systems see p. 241, 245)

- o compact torque tester for easy adaptation by replacement of the transducers
- high degree of accuracy thanks to flat transducer and conversion and digitalisation of readings within the transducer (see p. 239)
- high degree of safety through display showing actual torque read-off where clicking torque wrenches are used

7707 W Torque tester SENSOTORK®

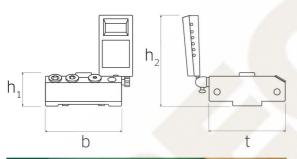
Electronic torque tester for torque wrenches, consisting of:

- transducer (patent)
- holder
- display unit (registered design)
- tripod for display unit (with 1.5 m cable)
- spiral cable
- mains adaptor (110 V-230 V with interchangeable socket adaptors) or direct connection to 12 V in-car supply is possible
- square drive adaptor (No 7707-2W, No 7707-2-1W, No 7707-2-2W, No 7707-3W)
- kit for attaching the unit to a workbench or wall in a horizontal or vertical testing position
- o for clockwise and anticlockwise use
- o units of measurement: N·m, ft·lb, in·lb
- the easily interchangeable transducers are attached to the holder by means of a QuickRelease safety lock
- low lateral forces thanks to low-profile transducers

- automatic detection of the transducer
- flexible and user friendly because the unit can be used horizontally or vertically and the display unit can be placed in many positions
- additional tripod with 1.5 m cable for mounting the display unit to facilitate visual monitoring when using longer torque wrenches
- especially broad measuring range from approx. 2 % to 100 % of rated value
- the software No 7759-4, including USB hub and jack cable (see p. 249), enables readings to be transferred to the PC for documenting (no separate power supply needed, power comes from PC)
- while individual transducers are being recalibrated, the torque tester itself remains on-site for further use
- wide range of application (-20°C to +60°C)
- o complies with DIN 51309: 2005, Class 2 and DKD-R 3-8: 2003
- with certificate
- supplied in sturdy plastic box

QuickRelease Rapid

change and firm locking of the transducers thanks to the QuickRelease











Code	No	Capacity N·m	Capacity ft·lb	Capacity in·lb	Ö	b mm	h ₁ mm	h ₂ mm	t mm	∂ ∂ g	∂∂g with box
96 52 10 8	36 7707-1-3W ¹)	0.2-10	0.15-7.4	1.8-88.5	1/4	180	79	215	180	6255	9500
9652108	35 7707-1-2W	0.2-10	0.15 - 7.4	1.8-88.5	1/4	180	79	215	180	6255	9500
9652108	30 7707-1W	0.4-20	0.3-15	3.5-177	1/4	180	79	215	180	6255	9500
96 52 10 7	72 7707-2W ²)	2-100	1.5-74	18-885	3/8	180	79	215	180	7025	10300
9652108	33 7707-2-1W ³)	4-200	3-148	35-1770	1/2	180	79	215	180	7511	10975
9652108	84 7707-2-2W ⁴)	8-400	6-295	71-3540	3/4	180	79	215	180	7654	11100
9652108	32 7707-3W ⁴)	25-1100	18-812	221-9736	3/4	180	79	215	180	7495	11000

- 1) for calibrating torque screwdrivers
- ²) with square drive adaptor No 409M (1/4" x 3/8" ■)
- ³) with square drive adaptors No 7789-4 (1/4" x 1/2" ■). No 7789-5 (3/8" x 1/2" ■)
- 4) with square drive adaptors No 7787 (1/4" x 3/4" ■). No 7788 (3/8" x 3/4" ■). No 7789 (1/2" x 3/4" ■)



Which transducer is for which torque tool?

(for manually operated testing, calibration technology on page 238-247)

	7721	1722	1721	172	1723	1723	2 123	3724	in the	1722.0 7721	1722	1723	1723	2 1723	3772	<i>*</i>	122 122	1722	1 AN	2 172	172	7723.3
760	•	_				_	_		730a/2	•	•	—				730Na/20				0	0	
775	•	_			_	_			730a/4		•	•		_		730Na/40					•	•
TORSIOTRONIC	•								730/80					•	•	701/2		•		-		
71/80							0	•	721/5		0	•				730D/10			0	0	0	
71aR/80							0	•	721/15			0	•	0		730D/20				•	0	
73Nm/15			0	0					721/20		_	•	•	•		730D/40					0	0
755R/1		_	•			_	_		721/30				•	0	_	730D/65						•
755/4				•	•	_			721QR/15			•	•	•		730DII/65						•
755/10					•	•			721QR/20			•	•	0		730D/80						0
755/20					•	•	0		720Nf/80					0	0	730D/100						0
755/30					_	•	•		721Nf/80					0	0	714/ 1	•	0				
730/5				0	•				721Nf/100				10:	0	0	714/ 2		0	0			
730/10					0	0	_		730N/2	•	0					714/4			0	0		
730/12					0	0	0		730N/5		0	0	0			714/6			0	0		
730/20					0	0	0		730N/10			0	0			714/10			•	0	0	
730/40						•	0		730N/12			0	0	0		714/20				•	0	
730/65						-	•		730N/20			0	0			714/40					0	0
73011/65							•		730N/40				0	0		714/65						•
730a/5				•	•				730N/65					0		714/80						•
730a/10					0	•			730NII/65					0		714/100						0
730a/12					•	•	0		730N/80					0	0	713R/6			•			
730a/20					•	0	0		730N/100					0	0	713R/20				0	•	
730/2		_	0	•		_			730Na/2	•	•					713R/40					0	
730/4				0	•	•			730Na/5		•	•	0			712R/6			•			
730a/2-1		0	0						730Na/10			•	•									

7721-7724 Transducers



- patent
- for calibration of torque wrenches and torque screwdrivers
- high degree of accuracy thanks to conversion and digitization of readings within the transducer itself
- o not susceptible to lateral forces due to low-profile construction
- o can also be used as part of a calibration system (see p. 241, 245)
- with certificate
- supplied in sturdy plastic box
- measuring ranges by deviation of indication



	Measuring ranges by deviation of indication													
Code	No		ay deviation % of the real ft.lb			y deviatio % of the r ft·lb	eading		ay deviation 5% of the ft·lb		Ø mm	0	Ø∂ g	& ∂ g with box
96521021	7721 ¹)	0,2-10	0,15-7,4	1,8-88,5	1-10	0,74-7,4	8,9-88,5	2-10	1,5-7,4	17,7-88,5	120	1/4	1735	2411
96521000	7721-0	0,2-10	0,15-7,4	1,8-88,5	1-10	0,74-7,4	8,9-88,5	2-10	1,5-7,4	17,7-88,5	120	1/4	1735	2411
96521026	7721-1	0,4-20	0,3-15	3,5-177	2-20	1,5-15	18-177	4-20	3-15	35-177	120	1/4	1735	2411
96521022	7722	2-100	1,5-74	18-885	10-100	7-74	89-885	12-100	9-74	106-885	120	3/8	2486	3223
96521023	7723-1	40-200	3-148	35-1770	20-200	15-148	177-1770	40-200	30-148	354-1770	120	1/2	2983	3605
96522023	7723-2	8-400	6-295	71-3540	40-400	30-295	354-3540	80-400	59-295	708-3540	120	3/4	3134	3745
96521028	7723-3	25-1100	18-812	221-9736	110-1100	81-812	974-9736	220-1100	162-812	1947-9736	120	3/4	2998	3761
96521029	7724-1 ²)	150-3000	111-2214	1328-26553	300-3000	221-2214	2655-26553	600-3000	443-2214	5311-26553	195	1 1/2	10500	12000

- 1) for calibrating torque screwdrivers
- 2) for use with mechanical loader No 7792 and 7792-1 (S. 243)

Note!

Torque testers are measuring instruments! They have to be regularly calibrated and, where necessary, adjusted, using suitable calibration equipment. We recommend recalibrating every 12 months. DAkkS certificates must be ordered separately see p. 236

Accurate, dependable and safe.

STAHLWILLE calibration.

Calibration is the regular examination of the accuracy and reliability of torque tools. This is essential because torque tools are precision instruments which are very often in use in safety-relevant environments. In order to be able to deliver dependable measured values in the long term, it is essential that examination by means of calibration takes place at regular intervals and is documented. A calibration system comprises several components:



The torque applied using the torque wrench ... is digitalised within the **transducer** and transmitted via USB cable to the PC, which ensures error-free transmission.



The mechanical loader is required for rapid, accurate fixing and operation of the torque wrench. The mechanical loader also ensures that the DIN EN ISO 6789 requirement for clicking torque wrenches is fulfilled, i.e. that, above 80% of the final torque value, the force can be applied slowly and steadily within the required time.



USB adapter – transfers the data to the PC.



The transducer is connected to the USB adapter by means of a **cable** with a jack and a self-locking precision plug.



The **square drive adapters** required to utilise … the measuring range of the transducers are included; e.g. for transducer No 7728-100 (female 3/4" square drive) this is square drive adapter No 7787 (1/4" female to 3/4" male), No 7788 (3/8" female to 3/4" male) and No 7789 (1/2" female to 3/4" male).



• **Software** – The data received in this way can then be used to issue and manage Declarations of Conformity or calibration certificates in accordance with DIN EN ISO 6789:2017.



Coordinated - down to the last detail.

STAHLWILLE calibration systems.



	No for full system	7706-8 PC	7706-9 PC	7706-10 PC	7706-11 PC
	Code	96 52 10 68	96 52 10 69	96 52 10 70	96 52 10 74
	Weight in kg	14.2	67.6	70.6	108.4
	Range N·m	1-10	2-100	2-1000	20-3000
L	Mechanical loader	-	No 7791	No 7791	No 7792
	»Stand alone« test attachment for torque screwdrivers	No 7790		-111	-
	Extension	-	-	No 7791-1	No 7792-1
	Laboratory transducers	No 7728-15 (1-10 N·m)	No 7728-2 (2-20 N·m) No 7728-10 (10-100 N·m)	No 7728-2 (2-20 N·m) No 7728-10 (10-100 N·m) No 7728-40 (40-400 N·m) No 7728-100 (100-1000 N·m)	No 7728-20 (20-200 N·m) No 7728-100 (100-1000 N·m) No 7728-300 (300-3000 N·m)
	USB adapter	No 7757-1	No 7757-1	No 7757-1	No 7757-1
	Jack cable	No 7751	No 7751	No 7751	No 7751
	Cable to No. 7728 (transducer to USB adapter)	No 7751-1	No 7751-1	No 7751-1	No 7751-1
	Square drive adapters	No 431 (3/8" © ×1/4" ■)	No 431 (3/8" ○ x1/4" ■) No 409M (1/4" ○ x3/8" ■)	No 7787 (1/4" ○ x3/4" ■) No 7788 (3/8" ○ x3/4" ■) No 7789 (1/2" ○ x3/4" ■) No 409M (1/4" ○ x3/8" ■)	No 7787 (1/4" ○x3/4" ■) No 7788 (3/8" ○x3/4" ■) No 7789 (1/2" ○x3/4" ■) No 7789-2 (3/4" ○x1½" ■) No 7789-3 (1" ○x1½" ■) No 7789-4 (1/4" ○x1/2" ■) No 7789-5 (3/8" ○x1/2" ■)
	Calibrating square drive insert tools	-	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■)	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■) No 734K/20 (1/2" ■) No 734K/40 (3/4" ■)	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■) No 734K/20 (1/2" ■) No 734K/40 (3/4" ■)
	Adapters	No 3115 (1/4" ■x 1/4" ● E 6.3) No 3115/1 (1/4" ■x 1/4" ● C 6,3)	-	-	-
	Calibration software	TORKMASTER	TORKMASTER	TORKMASTER	TORKMASTER
	DAkkS calibration certificates	1	2	4	3

$|\mathbf{M}|\mathbf{a}|\mathbf{n}|\mathbf{u}|t|o|r|k|^{\mathbb{B}}$

Mechanical loaders for torque wrenches and torque screwdrivers

Thanks to the modular design, end users can put together their own mechanical loader according to their specific requirements. Extensions with additional components are possible any time.

All the components are carefully matched to ensure compatibility and can be easily fitted.

This slot-in system is easy to use and has a very accurate fit.

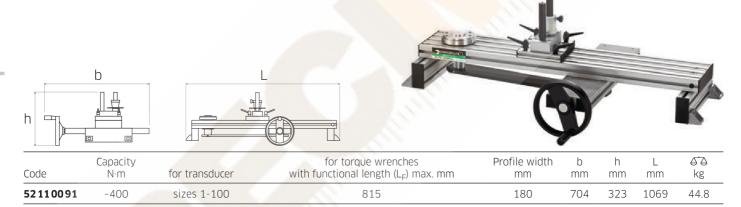
The components can be quickly and easily locked together using the integrated screw joints.

The display unit can be attached at various points of the system via a holder.

In this way, every user can organize his or her work to suit themselves.

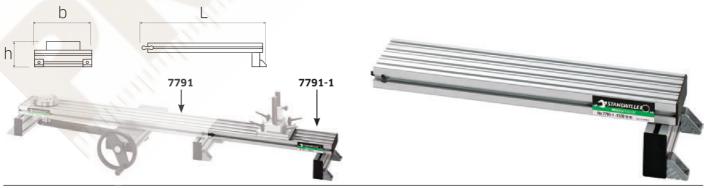
7791 Mechanical loaders up to 400 N·m

- measurement possible without moving the point of application of force
- thanks to a specially designed force transmission system, mechanical loader No 7791 avoids the risk of the point of force application shifting during the calibration process
- the lever below the test rail is actuated in a linear direction by the handwheel acting on a spindle
- the linear motion is translated into a rotary movement which acts on the transducer
- the torque wrench to be calibrated remains in the same position throughout the calibration process
- this prevents measuring errors caused by the point of force application being moved
- thanks to a low-friction linear ball bearing, the torque wrench is automatically levelled as it is placed in the unit
- a further linear ball bearing ensures the contact with the torque wrench is friction-free
- the reduction in lateral forces acting on the transducer and in the friction on the point of contact with the torque wrench results in a corresponding reduction in mismeasurement
- protected by national and international patents



7791-1 Extension unit for No 7791, 7794-1 and 7794-2 up to 1000 N·m

 with one pair of adapter plates No 7770-3 for height compensation between extension unit No 7791-1 and perfectControl® calibrating units No 7794-1 and No 7794-2



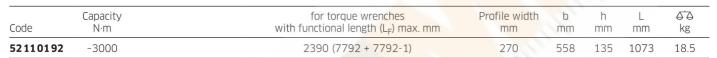
Code	Capacity	for torque wrenches	Profile width	b	h	L	&†∆
	N·m	with functional length (L _F) max. mm	mm	mm	mm	mm	kg
52110191	-1000	1390 (7791 + 7791-1)	180	308	135	673	8



Code	Capacity N·m	for transducer	for torque wrenches with functional length ($\rm L_{\rm F}$) max. mm	Profile width mm	b mm	h mm	L mm	&¯∆ kg
52110092	-1000	sizes 20; 100; 300	1390	270	722	323	1668.5	58

7792-1 Extension unit for No 7792 up to 3000 N·m





Test attachments for torque screwdrivers

7790

Mechanical loaders for torque screwdrivers

- can be bolted to mechanical loader No 7792
- the torque screwdriver to be calibrated is inserted in the square mount of the transducer and fixed using the universal central clamp
- the handwheel ensures that the required force is applied in a controlled manner to the torque screwdriver
- supplied without transducer or torque screwdriver





Code	Capacity N·m	for transducer	b mm	h mm	t mm	& ∆ kg
58 52 10 90	-10	7728-1S	250	442-593	351	9

7791-2

Test attachment for torque screwdrivers

- can be bolted onto mechanical loader
 No 7791
- the torque screwdriver to be calibrated is inserted in the square mount of the transducer and fixed using the universal central clamp
- the handwheel ensures that the required force is applied in a controlled manner to the torque screwdriver





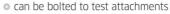


Code	Capacity	b	h	t	& ∆
	N·m	mm	mm	mm	kg
52110291	-10	250	442-593	351	3.7

Accessory

7750-1 Holder

o for display unit No 7750





code	∆ ¯∆ g
52 10 10 50	165

STAHLWILLE DAkkS calibration laboratory.

STAHLWILLE'S DAkkS calibration laboratory for torque is accredited by the German Accreditation Service (DAkkS) in accordance with DIN EN ISO/IEC 17025:2005. 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. During the first stage, the end-user checks the accuracy of the torque tools in-house using suitable calibrated testing equipment. At the next stage, this test equipment is checked in STAHLWILLE's DAKKS calibrating laboratory. This accreditation by the German Calibration Service (DKD) in accordance with DIN EN ISO/IEC 17025:2005 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.

5



Precisely matched products.

Manual calibrating unit

No 7794-1

perfectControl calibration systems.



No for full system	7794-2/400	7794-2/1000	7794-1/400	7794-1/1000
Code	96 52 10 78	96 52 10 79	96 52 10 76	96 52 10 77
Weight in kg	62.1	69.8	53.2	60.9
Range N·m	1-400	1-1000	1-400	1-1000
Motor driven calibrating unit	No 7794-2	No 7794-2		-
Manual calibrating unit	-	-	No 7794-1	No 7794-1
Extension	-/	No 7791-1	-	No 7791-1
Laboratory transducers	No 7728-1 (1-10 N·m) No 7728-6 (6-60 N·m) No 7728-40 (40-400 N·m)	No 7728-1 (1-10 N·m) No 7728-6 (6-60 N·m) No 7728-40 (40-400 N·m) No 7728-100 (100-1000 N·m)	No 7728-1 (1-10 N·m) No 7728-6 (6-60 N·m) No 7728-40 (40-400 N·m)	No 7728-1 (1-10 N·m) No 7728-6 (6-60 N·m) No 7728-40 (40-400 N·m) No 7728-100 (100-1000 N·m
USB adapter	No 7757-1	No 7757-1	No 7757-1	No 7757-1
Jack cable	No 7751	No 7751	No 7751	No 7751
Spiral cable	No 7752	No 7752	No 7752	No 7752
Cable for No 7728	No 7751-2	No 7751-2	No 7751-2	No 7751-2
Square drive adapter			No 409M (1/4"	No 409M (1/4" ○ x 3/8" ■) No 7787 (1/4" ○ x 3/4" ■) No 7788 (3/8" ○ x 3/4" ■) No 7789 (1/2" ○ x 3/4" ■) No 7789-4 (1/4" ○ x 1/2" ■) No 7789-5 (3/8" ○ x 1/2" ■)
Calibration square drive insert tools	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■) No 734K/12 (3/8" ■) No 734K/20 (1/2" ■) No 734K/40 (3/4" ■) No 734K/100 (3/4" ■)	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■) No 734K/12 (3/8" ■) No 734K/20 (1/2" ■) No 734K/40 (3/4" ■) No 734K/100 (3/4" ■)	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■) No 734K/12 (3/8" ■) No 734K/20 (1/2" ■) No 734K/40 (3/4" ■) No 734K/100 (3/4" ■)	No 734K/4 (1/4" ■) No 734K/5 (3/8" ■) No 734K/12 (3/8" ■) No 734K/20 (1/2" ■) No 734K/40 (3/4" ■) No 734K/100 (3/4" ■)
Calibration software	TORKMASTER	TORKMASTER	TORKMASTER	TORKMASTER
DAkkS calibration certificates	3	4	3	4



7794-2 Motorised calibrating and adjusting tool from 1 to 400 N·m

The electronic perfectControl® calibrating unit with its electric drive considerably reduces the amount of effort and time required for calibration and adjustment tasks on torque wrenches

- calibration and adjustment tasks on torque wrenches
 measurement possible without moving the point of application of force
 prevents faulty readings thanks to precision-mounted spindle and
- finely regulated motor
 extremely accurate calibration thanks to optimised bearings and square drives for the transducers
- rapid, easy change of transducers thanks to quick-release latching system
- convenient pushbutton controls for clockwise and anticlockwise measurements with automatic speed compensation
- saves time because the bridge support is locked in place using a singlehanded eccentric lever
- transmission of readings to a PC via USB interface for further processing, analysis and archiving
- a Declaration of Conformance or a calibration certificate can be printed or saved as a PDF file after calibration
- as found / as left calibrations can be documented
- during calibration, DIN EN ISO 6789:2003 in numerous languages is supported. Additional standards and works standards are available on request
- can be upgraded to perfectControl* calibrating unit No 7794-3 for angle-controlled wrenches
- calibration up to 1000 N·m is possible using the easily attached extension unit No 7791-1 (see p. 242)

- design patent
- protected by national and international patents
- both clicking and indicating torque wrenches can be calibrated
- calibration of transducers is possible using reference torque wrenches No 7770-10, 7770-100 and 7770-1000, available on request.
- the unit is supplied without the torque wrench, transducers or notebook
- transducers laboratory No 7728 (see p. 248)



design award

2011

Content:

- 6 calibrating square drive insert tools No 734K (sizes 4, 5, 12, 20, 40, 100)
- 6 square drive adaptors (No 409M, No 7787, No 7788, No 7789, No 7789-4, No 7789-5)
- 1 USB adaptor No 7757-1
- 1 software Torkmaster 7731-1
- 1 jack cable No 7751
- 1 spiral cable No 7752
- 1 spiral cable No 7751-2 with jack plug and self-locking precision plug
- 1 low-temperature cable connector
- 1 hexagon key wrench No 10760CV size 2 mm are included







Code	Capacity N·m	for transducer	for torque wrenches with functional length (L _F) max. mm	Profile width mm	b mm	h mm	L mm	& ∂ kg
96521093	1-400	7728 (sizes 1-100)	815	180	640	328	1060	58.1





7794-1 Manual calibrating unit from 1 to 400 N·m

- as for perfectControl® No 7794-2, but the drive is via an ergonomically designed handwheel
- calibration up to 1000 N·m is possible using the easily attached extension unit No 7791-1 (see p. 242)
- protected by national and international patents
- supplied without torque wrench, transducer or notebook
- o transducers laboratory No 7728 (see p. 248)

Content:

- 6 calibrating square drive insert tools No 734K (sizes 4, 5, 12, 20, 40, 100)
- 6 square drive adaptors (No 409M, No 7787, No 7788, No 7789, No 7789-4, No 7789-5)
- 1 USB adaptor No 7757-1
- 1 software Torkmaster 7731-1
- 1 jack cable No 7751
- 1 spiral cable No 7752
- 1 spiral cable No 7751-2 with jack plug and self-locking precision plug
- 1 low-temperature cable connector
- 1 hexagon key wrench No 10760CV 2 mm are included







Code	Capacity N·m	for transducer	for torque wrenc <mark>hes</mark> with functional length (L _F) max. mm	Profile width mm	b mm	h mm	L mm	Ø Ø kg
96521092	1-400	7728 (sizes 1-100)	815	180	705	355	1060	47

7794-3 Automated calibrating and adjusting unit from 1 to 400 N·m

- automatically calibrates electronic torque and angle-controlled wrenches made by STAHLWILLE
- design patent
- protected by national and international patents
- model is the same as perfectControl® No 7794-2, except it is additionally suited to calibrating angle-controlled wrenches. Optimum adaptation to working height with motorised height adjustment
- calibration up to 1000 N·m is possible using the easily attached expansion unit No 7791-1 (see p. 242) and set of adapter plates No 7791-4, Code 52110491
- o supplied without torque wrench, transducer or notebook

- Content:
- 6 calibrating square drive insert tools No 734K (sizes 4, 5, 12, 20, 40, 100)
- 6 square drive adaptors (No 409M, No 7787, No 7788, No 7789, No 7789-4, No 7789-5)
- 1 USB adaptor No 7757-1
- 1 software Torkmaster 7731-1
- 1 jack cable No 7751
- 1 spiral cable No 7752
- 1 spiral cable No 7751-2 with jack plug and self-locking precision plug
- 1 low-temperature cable connector
- 1 hexagon key wrench No 10760CV 2 mm are included





Code	Capacity N·m	for transducer	for torque wrenches with functional length ($\rm L_{\rm F}$) max. mm	Profile width mm	b mm	h mm	L mm	∆†∆ kg
96521094	1-400	7728 (sizes 1-100)	815	180	640	884-1134	1060	230

Transducers laboratory



- patented
- for laboratory environments
- with optimised measuring range
- for calibrating torque wrenches and torque screwdrivers
- o for use together with perfectControl calibrating unit No 7794 or calibration system No 7706
- high degree of accuracy thanks to conversion and digitization of readings within the transducer itself
- with high-grade self-locking precision plug
- not susceptible to lateral forces due to low-profile construction
- with DAkkS calibration certificate
- max. display deviation value ± 0.5% of the reading
- o further details on request
- supplied in sturdy plastic box
- measuring ranges by deviation of indication



Code	size		play deviation v 0.5% of the reac in·lb			splay deviation 0.25% of the ft·lb		Ø mm	0 "	Ø∂ g	€ g with box
96524011	15 ¹)	1-10	8,9-88,5	0,74-7,4	2-10	1,5-7,4	18-88,5	120	1/4	1735	2415
96524001	1	1-10	8,9-88,5	0,74-7,4	2-10	1,5-7,4	18-88,5	120	1/4	1735	2415
96524002	2	2-20	18-177	1,5-15	4-20	3-15	35-177	120	1/4	1735	2415
96524004	4	4-40	35-354	3-30	8-40	6-30	71-354	120	3/8	2486	3136
96524006	6	6-60	53-531	4,5-45	12-60	9-45	106-531	120	3/8	2486	3136
96524010	10	10-100	89-885	7-74	20-100	14-74	177-885	120	3/8	2486	3136
96524020	20	20-200	177-1770	15-148	40-200	30-148	354-1770	120	1/2	2983	3170
96524040	40	40-400	354-3540	30-295	80-400	60-295	708-3540	156	3/4	4846	5507
96524065	65	65-650	575-5753	48-479	130-650	96-479	1151-5753	156	3/4	4846	5507
96524080	80	80-800	708-7081	59-590	160-800	118-590	1416-7081	156	3/4	4846	5507
96524100	100	100-1000	885-8851	74-738	200-1000	148-738	1770-8851	156	3/4	4846	5507
96524300	300 ²)	300-3000	2655-26553	221-2214	600-3000	443-2214	5310-26553	195	1 1/2	10500	12000

¹⁾ for calibrating torque screwdrivers

TORKMASTER.

Simple, professional calibration.

Need to adjust torque wrenches and torque screwdrivers and calibrate them in compliance with the standards, generate Declarations of Conformance and calibration certificates to DIN EN ISO 6789? This is exactly what the STAHLWILLE TORKMASTER software is for. At the highest standard of safety and with minimum effort for the user.

The **optional CAQ interface** enables connection to the superordinate CAQ system, which in this way has access to all inspection data at all times. The user is not required to do anything – all the data and logs of the calibration process are securely transmitted.



5

²) for use with mechanical loader No 7792 and 7792-1 (S. 243)



Accessories for workshop torque tester and calibration systems

7759-4

USB adaptor, jack cable and software **Torkmaster**

Link between perfectControl® or transducer (7721-7724) and PC. For adjusting and calibrating torque wrenches and torque screwdrivers. Produces calibration certificates in accordance with DIN EN ISO 6789, which can be printed out or saved as PDF files.



- graphical representation of the torque progression
- user management
- 17 languages
- equipment testing system

System requirements:

- Microsoft Windows XP SP3 or later operating system
- USB connection





7759-6

USB adaptor, cable and software **Torkmaster**

Link between perfectControl® or transducer (7728) and PC. For adjusting and calibrating torque wrenches and torque screwdrivers. Produces calibration certificates in accordance with DIN EN ISO 6789, which can be printed out or saved as

- o as found / as left calibrations can be documented
- graphical representation of the torque progression
- user management
- 17 languages
- equipment testing system

System requirements:

PC

Code

- Microsoft Windows XP SP3 or later operating system
- USB connection



Code	L m	₫¹à g
96583629	1.5	65

Jack cable

- connection between transducers 7721-7724 and USB adaptor or display unit
- with jacks at both ends, 90° angled



Code	L m	g g
52110051	1.5	50

7751-1

96583631

Cable for No 7728

L

m

1.5

- for connecting laboratory transducers 7728 to a USB hub or display unit
- with jack plug, 90° angled, and self-locking precision plug



50

g 72

Code	L m	₽
52110054	1.5	38

7752

Spiral cable

- o connection between transducer and display unit or USB adaptor
- with jacks at both ends, 90° angled



52110052	500	35
Code	max. mm	g
	L	\triangle

7751-2

Spiral cable for No 7728

- for connecting laboratory transducers 7728 to a USB hub or display unit
- with jack plug, 90° angled, and self-locking precision plug



Code	L max. mm	₫`à g
52110057	500	32

Display unit

- registered design
- o for displaying the actual torque as measured
- o units of measurement: N·m, ft·lb, in·lb
- modes of operation: track, peak hold, first peak (only with manual operation)
- additional display of actual torque applied with clicking torque wrenches
- swivels to any desired position thanks to universal ball-joint



Code	€ B
52 10 00 50	182

7760 Mains adaptor

- Input: 110 V-230 V AC
- Output:9 V DC, with interchangeable socket adaptors



52110056	g 201
Code	S G

7761 Interface adaptor

 required for automated calibration and adjustment of angle-controlled torque wrenches No 714 using calibrating and adjusting units perfectControl® No 7794-2 and 7794-3



Code	g
52110061	26

7761/3 Interface adaptor set

Contents:

- No 7761 interface adaptor
- No 7752 spiral cable
- No 7760 mains adaptor



96521161	 255
Code	g
	60

7311/7312 Plastic box, empty

 for safe storage and transport of transducers (please order inlays separately)



Code	No	for transducer	g g
81500003	The second second second	7721; 772 <mark>2; 77</mark> 23; 7728 1-20	554
81500004		7724-1; 7728 40-100	1346

7313/7314

Inlays for plastic box

Code	No	for transducer	Ø∂ g
83071030		<mark>7721;</mark> 7722; 7723; 7728 1-20	77
83071031		7724-1; 7728 40-100	242

409M

Adaptor

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



code	L	Ø	Ø∂
	mm	mm	g
11030010	13	28	14

7787

Square drive adaptor

 \circ 1/4" socket x 3/4" plug (6.3 x 20)



58521087	15.5	29	41
Code	mm	mm	g
	L	Ø	44

7788

Square drive adaptor

3/8" socket x 3/4" plug (10 x 20)



Code	L	Ø	Ø ∂
	mm	mm	g
58521088	23.5	29	50

STAHLWILLEI

7789 Square drive adaptor

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



Code	L	Ø	Ø∂
	mm	mm	g
58 52 10 89	23.5	29	40

7789-2 Square drive adaptor

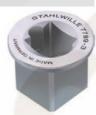
3/4" socket x 1 ½" plug (20 x 40)



Code	L	Ø	Ø∂
	mm	mm	g
58 52 30 89	44	60	380

7789-3 Square drive adaptor

o 1" socket x 1 ½" plug (25 x 40)



Code	mm	mm	g
58 52 40 89	44	60	280

7789-4 Square drive adaptor

1/4" socket x 1/2" plug (6.3 x 12.5)



	L	Ø	4
Code	mm	mm	g
58 52 40 90	15.5	29	25

7789-5 Square drive adaptor

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



Code	L	Ø	₽
	mm	mm	g
58 52 40 91	15.5	29	28

734K Calibrating square drive insert tools

- without a ball or pin (so not suitable for bolt tightening)
- optimum measuring results during calibration thanks to reduced lateral forces



Code	size	"	mm	b mm	h mm	S mm	Ø g
58243004	4	1/4	9x12	20	16.7	17.5	76
58243005	5	3/8	9x12	20	16.7	17.5	76
58243012	12	3/8	14x18	27	21.5	25	199
58243020	20	1/2	14x18	27	21.5	25	218
58243040	40	3/4	14x18	40	29.3	25	410
58241100	100	3/4	22x28	43	29.3	55	907

70VK Calibrating square drive units

- without a ball or pin (so not suitable for bolt tightening)
- optimum measuring results during calibration thanks to reduced lateral forces



Code	size	for No	a "	þ	L mm	ØĎ g
59011014 59011003 59011012 59011011	3 12	734/4 735/5 734/10; 734/20 734/20	3/8 3/8 1/2 1/2	3/8 3/8	24.7 27.6 32.5 36.9	12 17 34 60
59011008	8	734/40; 734/80; 734/100	3/4	3/4	52.2	138