

Which insert tool for which torque wrench?

730D Service/Industrial MANOSKOP[®], cut-out, indicating



730N Service MANOSKOP[®], cut-out



730 Service MANOSKOP[®], cut-out



755 Industrial MANOSKOP[®], cut-out



No			725QR/4	725QR/5	725QR/10	725QR/20	725B	725L/5	725/4	735/5	735/10	735/20	735/40	735/80	739/20H	734/4	734/5	734/10	734/20	734/40	734/80
size	size	mm																			
2	a/2	9x12	●	●	●		●	●	●	●	●					●	●	●			
4	a/4	9x12	●	●	●		●	●	●	●	●					●	●	●			
5	a/5	9x12	●	●	●		●	●	●	●	●					●	●	●			
10	a/10	9x12		●	●			●		●	●						●	●			
12	a/12	14x18				●						●	●		●				●	●	
20	a/20	14x18				●						●	●		●				●	●	
30	-	14x18				●						●	●		●				●	●	
40	a/40	14x18										●	●							●	●
65	-	14x18										●	●							●	●
80	-	24.5x28												●							●

No			734F	734L/5	731/10	731/40	731/80	732/10	732/40	732/80	732aL/10	732B/10	732TX/10	732TX/40	733/10	736/10	736/40	737/10	737/40	7370/80	
size	size	mm																			
2	a/2	9x12	●	●	●			●			●	●	●		●	●		●			
4	a/4	9x12	●	●	●			●			●	●	●		●	●		●			
5	a/5	9x12	●	●	●			●			●	●	●		●	●		●			
10	a/10	9x12	●	●	●			●			●	●	●		●	●		●			
12	a/12	14x18				●			●					●			●		●		
20	a/20	14x18				●			●					●			●		●		
30	-	14x18				●			●					●			●		●		
40	a/40	14x18				●			●					●			●		●		
65	-	14x18				●			●					●			●		●		
80	-	24.5x28					●			●										●	

71 Torque Wrench MANOSKOP[®], indicating



No			735/5	735/10	735/20	735/40	735/80	734/4	734/5	734/10	734/20	734/40	734/80	731/10	731/40	731/80	732/10	732/40	732/80	7370/80	
size	size	mm																			
80	-	24.5x28					●						●			●			●	●	



712R Electronic Torque Wrenches Sensotork®



713R Electronic angle-controlled Torque Wrenches Sensotork®



No		725QR/			725B	725L/5	725/4	735/5				739/20H	734/4			
size	mm	4	5	10	20											
6	9x12	●	●	●		●	●	●	●	●			●	●	●	
20	14x18				●						●	●	●			●
40	14x18										●					●

No		734F	734L/5	731/10	731/40	732/10	732/40	732aL/10	732b/10	732TX/10	732TX/40	733/10	736/10	736/40	737/10	737/40
size	mm												736/10-1			
6	9x12	●	●	●		●		●	●	●		●	●		●	
20	14x18				●		●				●			●		●
40	14x18				●		●				●			●		●

Maximum continuous loads of square drive and ratchet insert tools are limited to: 734/4 – 40 N m, 734/5 – 80 N m, 734/10 – 100 N m, 734/20 – 300 N m, 734/40 – 650 N m.
 The maximum torque for open-ended, ring, open-ring and TORX® insert tools varies according to their individual size. This can be below the maximum capacity of the torque wrench used.



STAHLWILLE is an accredited calibrating laboratory.

Controlled tightening is a must in terms of safety and the lifetimes of the screws and bolts.

STAHLWILLE has been awarded accreditation as a calibrating laboratory for torque by the German Calibration Service ("DKD") because of the Company's skills in the field of torque controlled tightening.

STAHLWILLE's calibration service
 The STAHLWILLE calibration service is in a position to offer both the usual works calibration certificate and the "DKD" certificate.

Included in the price of calibration of STAHLWILLE products are the costs of any adjustment required and a second calibration operation.

In addition, the STAHLWILLE calibration service provides complete monitoring, documentation archiving and follow-up timing for torque wrenches and testers.

Additional information on these services is available on request.

Service work & series production MANOSKOP® – indicating and cut-out

This electromechanical torque wrench combines the "indicating" and "cut-out" functions in a single tool; the function modes can be selected independently of each other. With a mount for interchangeable insert tools and QuickRelease safety lock; rapid setting using the convenient foil keypad and large display; tactile and acoustic trigger signal.

Differing tolerance limits can be set for each joint. Visual red and green signals in the display confirm the status of the joint.

Display also works for anticlockwise torque. Angle-controlled measurement using the Angle Module No 7395-1 (see page 165).

7500 data records can be stored, transferred via a USB interface and evaluated on the PC. Automatic compensation to achieve correct tightening torque even if a changed extension is entered. Overload protection by means of acoustic and visual signals. The automatic keypad lock prevents inadvertent changes. Additional security for presets (function mode, trigger or preset value, unit of measurement, tolerance, save, deviating extension) using PIN code. Save time thanks to settle-resistant mechanism.

All the sensitive components are protected by the sturdy housing. The 2-component handle with its ergonomically designed green softer layers is resistant to oils, grease, fuels, brake fluids and Skydrol. Included in the set are two 1.5 V AA batteries. It is also possible to use rechargeable batteries (AA/LR6, NiMH, 1.2 V). Automatic notification of the next calibration date. Fully automated calibration using perfectControl calibrating unit No 7794-2.

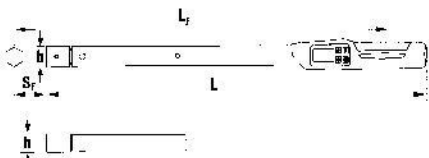
In sturdy plastic case (size 40 and 65 in steel case). Units of measurement: N m, ft.lb, in.lb
Deviation of indication $\pm 2\%$. With certificate.

Our own patents are pending.

(Inserts see pages 174–179)

5

730D Basic wrenches with tool carrier for insert tools



730D/20

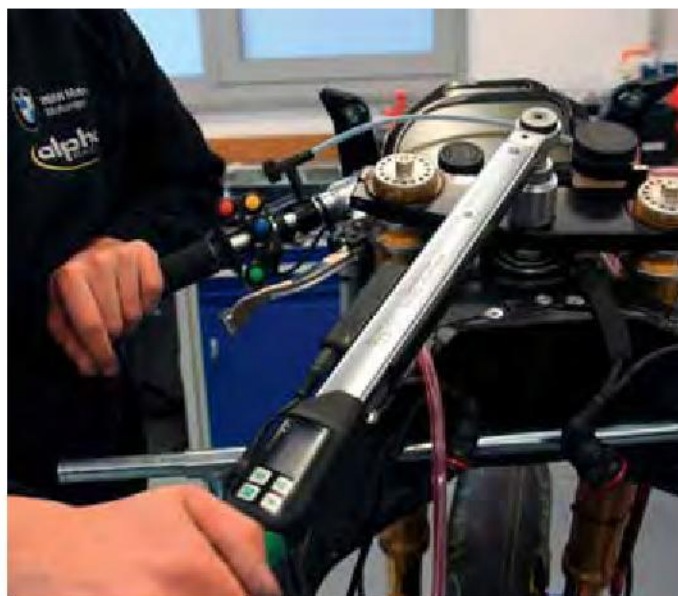


Code	size	Setting/display resolution			mm	b mm	h mm	L mm	L _f mm	S _f mm	ΔΔ g	ΔΔ g with box			
		Nm	ft.lb	in.lb											
96 50 17 10	10	10-100 N m	7.4-75 ft.lb	90-900 in.lb	0.2/0.1	0.2/0.1	2/1.0	9 x 12	28	23	467	426.5	17.5	1085	1510
96 50 17 20	20	20-200 N m	15-150 ft.lb	180-1800 in.lb	0.5/0.1	0.5/0.1	5/1.0	14 x 18	28	23	548	515	25	1361	1896
96 50 17 40	40	40-400 N m	30-300 ft.lb	360-3600 in.lb	1.0/0.1	1.0/0.1	10/1.0	14 x 18	28	23	688	655	25	1765	5155
96 50 17 65	65	65-650 N m	48-480 ft.lb	580-5800 in.lb	1.0/0.1	1.0/0.1	10/1.0	14 x 18	30.6	25.6	870	837	25	3300	6000

730DR Basic wrench with ratchet insert tool



Code	size	"	ΔΔ g	ΔΔ g with box
96 50 18 10	10	1/2	1232	1657
96 50 18 20	20	1/2	1663	2198
96 50 18 40	40	3/4	2232	4722
96 50 18 65	65	3/4	3767	6530





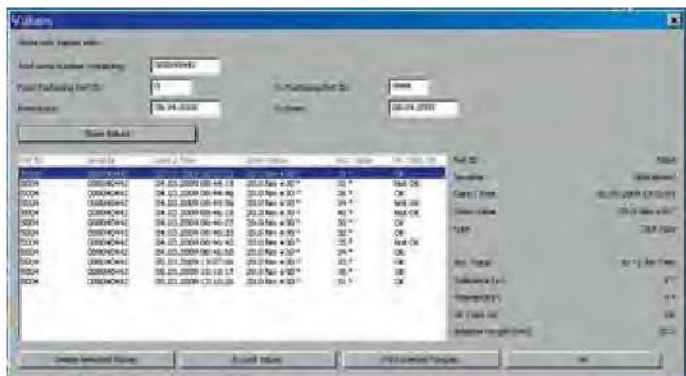
7759-3 USB adaptor, jack cable and software No 7732 for No 730D

Documentation and management of readings on a PC

- Read out stored wrench data and joint readings:
 - Joint identifier
 - Tool serial number
 - Date and time of tightening operation
 - Target torque or target angle
 - Torque level at which the tool cuts out
 - Tightening torque or angle reached
 - Tolerances
 - Joint evaluation
- Storage of joint data in a database
- Delete or print highlighted joints from the database
- Export displayed joint data to a CSV file (compatible with Excel)
- 13 languages
- User management
- Define new PIN
- Delete joint data stored in wrench

System requirements:

- PC
- Microsoft Windows 98 SE or compatible operating system with USB support
- USB connection
- Screen resolution of at least 1024 x 768 pixels
- STAHLWILLE USB hub or STAHLWILLE USB adapter cable
- Installed ODBC driver for Access data



Code	L	△△
	m	g
96 58 36 27	1.5	137

7395-1 Angle Module for No 730D

Registered design, angle-controlled measurement without a reference arm. For torque wrench No 730D from software release 1.5.8. Torque wrenches No 730D fitted with older releases of the software can be upgraded. Simply attach the module and connect to the torque wrench interface and the No 730D can be used for angle controlled tightening. The measurements are read off and settings made via the torque wrench. When the preset snug point is reached, the torque wrench automatically switches over to angle-controlled measurement in degrees. Depending on the options selected, the torque wrench will either cut out when the preset angle is reached or an alarm is heard. One 1.5 V battery is included in the package. Deviation of indication ± 1%.



7395-1



7395-1+730D

Code	△△
	g
96 58 36 28	387

5



Service MANOSKOP® 730N

registered design, clicking torque wrench with mount for interchangeable insert tools, rapid, accurate setting using QuickSelect quick-action adjuster, with QuickRelease safety lock, double stop signals, very clear twin scales with colour coded N m/ft.lb and ft.lb/inch.lb markings and long-term repeated accuracy.

The measuring element is only under load while force is being applied, no need for manual reset to zero. All the sensitive components are protected by the sturdy housing.

The 2-component handle with its ergonomically designed green softer layers is resistant to oils, grease, fuels, brake fluids and Skydrol.

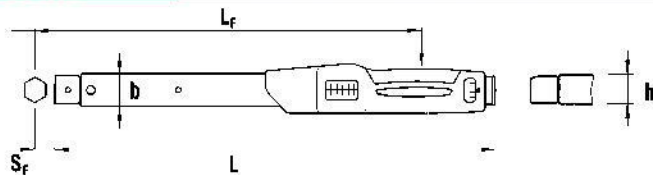
Any force applied to the tool after the "click" or applied in the opposite direction to the current function – e.g. forcible loosening of a jammed screw – does not act on the trigger mechanism and cannot cause damage to it. The swap-over inserts can also be used to apply torque in an anti-clockwise direction.

Easily adjustable without disassembly, e.g. using tester No 7707 W or calibration system No 7706.

Deviation of indication ± 3%. With certificate.

(Inserts see pages 174–179)

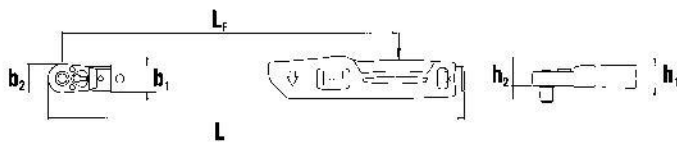
730N Basic wrenches with tool carrier for insert tools



Code	size					Fine scale		b mm	h mm	L mm	L _F mm	S _F mm	ΔΔ g
50 18 1002	2	2–20 N m	20–180 in.lb	1 N m	10 in.lb	0.2 N m	9 x 12	28	23	275	226	17.5	737
50 18 1005	5	10–50 N m	7–37 ft.lb	5 N m	1 ft.lb	0.25 N m	9 x 12	28	23	330	280.5	17.5	831
50 18 1010	10	20–100 N m	15–75 ft.lb	10 N m	2.5 ft.lb	0.5 N m	9 x 12	28	23	386	336	17.5	988
50 18 1012	12	25–130 N m	20–95 ft.lb	10 N m	2.5 ft.lb	0.5 N m	14 x 18	28	23	421	379	25	1128
50 18 1020	20	40–200 N m	30–150 ft.lb	10 N m	5 ft.lb	1 N m	14 x 18	28	23	467	424.5	25	1264
50 18 1040	40	80–400 N m	60–300 ft.lb	20 N m	10 ft.lb	2 N m	14 x 18	28	23	607	564.5	25	1655
50 18 1065	65	130–650 N m	100–480 ft.lb	50 N m	20 ft.lb	2.5 N m	14 x 18	30.6	25.6	890	848	25	3231
50 58 1002	a/2	20–180 in.lb	1.5–15 ft.lb	10 in.lb	0.5 ft.lb	2 in.lb	9 x 12	28	23	275	226	17.5	737
50 58 1005	a/5	90–450 in.lb	7–37 ft.lb	50 in.lb	1 ft.lb	2.5 in.lb	9 x 12	28	23	330	280.5	17.5	831
50 58 1010	a/10	180–900 in.lb	15–75 ft.lb	100 in.lb	2.5 ft.lb	5 in.lb	9 x 12	28	23	386	336	17.5	988
50 58 1020	a/20	350–1800 in.lb	30–150 ft.lb	100 in.lb	5 ft.lb	10 in.lb	14 x 18	28	23	467	424.5	25	1264
50 58 1040	a/40	60–300 ft.lb	800–3600 in.lb	20 ft.lb	100 in.lb	2 ft.lb	14 x 18	28	23	607	564.5	25	1655

730NR Torque wrenches with permanently installed ratchet

in sturdy plastic case (size 65 in steel case).



Code	size					Fine scale	"	b ₁ mm	b ₂ mm	h ₁ mm	h ₂ mm	L mm	L _F mm	ΔΔ g	ΔΔ g with box
96 50 21 05	5QR FK*	10–50 N m	7–37 ft.lb	5 N m	1 ft.lb	0.25 N m	3/8	28	29	23	14.5	372.5	291	961	1386
96 50 21 10	10QR FK*	20–100 N m	15–75 ft.lb	10 N m	2.5 ft.lb	0.5 N m	1/2	28	29	23	14.5	428.5	346.5	1129	1554
96 50 21 20	20QR FK*	40–200 N m	30–150 ft.lb	10 N m	5 ft.lb	1 N m	1/2	28	41	23	18	526	438	1589	2014
96 50 21 40	40 FK	80–400 N m	60–300 ft.lb	20 N m	10 ft.lb	2 N m	3/4	28	50	23	30.7	657	564.5	2122	2657
96 50 21 65	65 FK	130–650 N m	100–480 ft.lb	50 N m	20 ft.lb	2.5 N m	3/4	30.6	50	25.6	30.7	940	915	3698	6188

* Ratchet has quick-release safety lock



Service MANOSKOP® 730

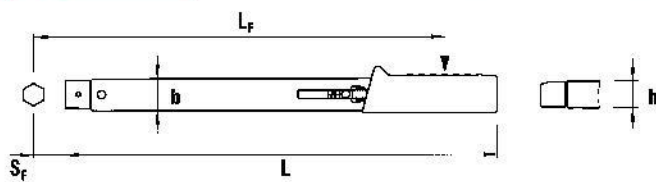
Torque wrenches with tool carrier for interchangeable insert tools, with cut-out, with QuickRelease safety lock (size 5–65) dual signal, rapid adjustment (size 2–65), dual scale N m/ft.lb and N m/inch.lb. (size 5–80), long term accuracy and facility to accept insert/shell tools.

The robust steel tube completely encloses all working parts. The measuring element is only under load while force is being applied, no need for manual reset to zero. Any force applied to the tool after the "click" or applied in the opposite direction to the current function – e.g. forcible loosening of a jammed screw – does not act on the trigger mechanism and cannot cause damage to it. Reversible insert/shell tools allow anti-clockwise operation.

Easily adjustable without disassembly, e.g. using torque tester No 7707 W or calibration system No 7706. Deviation of indication $\pm 4\%$. With certificate.

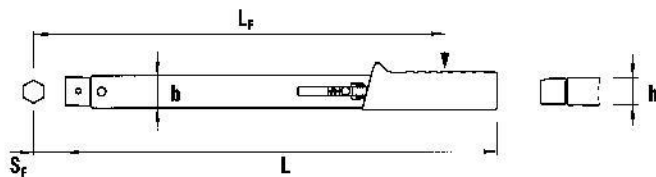
(Insert/shell tools see pages 174–179)

730 Basic wrenches with tool carrier for insert tools



730/2

Code	size				mm	b mm	h mm	L mm	L _F mm	S _F mm	$\Delta\%$ g
50 180002	2	4–20 N m	0.5 N m		9 x 12	27.5	23	178.5	174	17.5	315
50 180004	4	8–40 N m	1 N m		9 x 12	27.5	23	222	218	17.5	395
50 580001	a/2-1	17.5–87.5 in.lb	2.5 in.lb		9 x 12	27.5	23	178.5	174	17.5	315
50 580002	a/2	30–175 in.lb	5 in.lb		9 x 12	27.5	23	178.5	174	17.5	315
50 580004	a/4	70–350 in.lb	10 in.lb		9 x 12	27.5	23	222	218	17.5	395

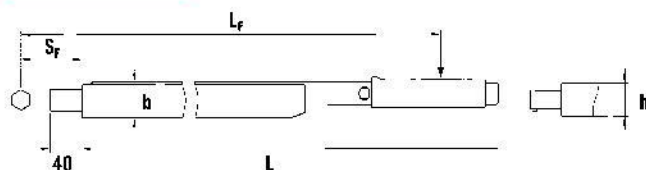


730/5



Code	size					mm	b mm	h mm	L mm	L _F mm	S _F mm	$\Delta\%$ g
50 180005	5	6–50 N m	5–36 ft.lb			9 x 12	28	23	315	288	17.5	805
50 180010	10	20–100 N m	15–72.5 ft.lb			9 x 12	28	23	370	343	17.5	1210
50 180012	12	25–130 N m	20–95 ft.lb			14 x 18	28	23	410	390	25	1100
50 180020	20	40–200 N m	30–145 ft.lb			14 x 18	28	23	455	435	25	1250
50 180040	40	80–400 N m	60–300 ft.lb			14 x 18	28	23	590	570	25	1880
50 180065	65	130–650 N m	100–480 ft.lb			14 x 18	30.6	25.6	875	855	25	3480
50 580005	a/5	6–50 N m	50–440 in.lb			9 x 12	28	23	315	288	17.5	805
50 580010	a/10	20–100 N m	180–880 in.lb			9 x 12	28	23	370	343	17.5	965
50 580012	a/12	25–130 N m	225–1150 in.lb			14 x 18	28	23	410	390	25	1100
50 580020	a/20	40–200 N m	350–1750 in.lb			14 x 18	28	23	455	435	25	1250

730 Basic wrench with tool carrier for shell tools, registered design



Code	size					mm	b mm	h mm	L mm	L _F mm	S _F mm	$\Delta\%$ g
50 180080	80	160–800 N m	120–600 ft.lb			24.5 x 28	46	43	970	990	95	4925

Use shell adaptor No 7370/80 to make 14 x 18 mm insert tools fit.

730R/40/32 Torque wrench set

32 pieces, in steel case, for general service work.

Content:

- 1 SERVICE-MANOSKOP No 730/40, 80–400 N m
- 1 ratchet insert tool No 735/20, reversible, 1/2" ■-drive
- 1 square drive insert tool No 734/20, 1/2" ■-drive
- 7 o/e insert tools No 731/40, sizes 13, 15, 17, 19, 22, 27, 30 mm
- 1 No 3731/40 size 24 mm;
- 7 ring insert tools No 732/40, sizes 13, 15, 17, 19, 22, 24, 27 mm
- 10 sockets, bi-hexagon No 50, sizes 13, 14, 15, 17, 19, 22, 24, 25, 30, 32 mm
- 4 accessories, 1/2" ○-drive:
 - 1 T-handle No 506
 - 1 extension 255 mm No 509/10
 - 1 extension 130 mm No 509/5
 - 1 extension 55 mm No 509/2



Code	g	g	g
96 50 20 53	9739	1	

1299 BITS

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



Code	outside mm	outside mm	"	L mm	g	g
08 09 00 02	2	C 6.3	1/4	34	4	10

outside ● DIN 3126/ISO 1173

Plastic case, empty

for safe storage and transport of torque wrenches (please order inlays separately). Supplied without torque wrench.



Code	No	for torque wrenches No	L mm	g
81 37 00 02	7301	720/15; 721/5; 721/15; 730/5; 730/10; 730/12; 730/20; 730a/5; 730a/10; 730a/12; 730a/20; 730N/5; 730N/10; 730N/12; 730N/20; 730Na/5; 730Na/10; 730Na/20; 730D/10	550	425
81 37 00 03	7302	720/30; 721/30; 730/40; 730N/40; 730Na/40; 730D/20	680	535

Inlays for plastic case

Code	No	for torque wrenches No	g
83 07 10 04		720/15; 721/5; 721/15; 730/5; 730/10; 730/12; 730/20; 730a/5; 730a/10; 730a/12; 730a/20; 730N/5; 730N/10; 730N/12; 730N/20; 730Na/5; 730Na/10; 730Na/20; 730D/10	88
83 07 10 02		720/30; 721/30; 730/40; 730N/40; 730Na/40; 730D/20	113

5

Standard MANOSKOP® 720Nf

Torque wrenches with dual "Stop" signal and cut-out, micrometer type adjustment, dual scale N m/ft.lb and long service life.

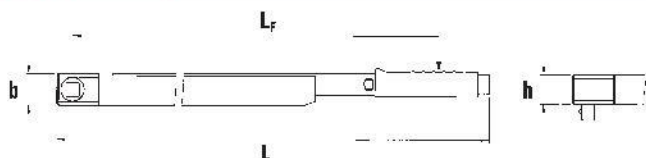
Robust steel tube and light alloy "U"-profile protect all working parts.

Push through square drive for right and left hand tightening.

Recalibration without dismantling using torque Tester No 7707 W or calibration system No 7706.

Deviation of indication ± 4%. With certificate.

720Nf Torque wrench with square drive



Code	size	mm	mm	mm	mm	mm	"	b mm	h mm	L mm	L _F mm	S _F mm	g
50 19 00 81	80	160–800 N m	120–600 ft.lb	20 N m	20 ft.lb	3/4	45	42	1034	938	0	5650	



Standard MANOSKOP® 721

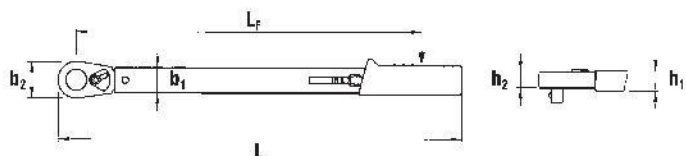
Torque wrenches with dual "Stop" signal and cut-out, rapid adjustment, dual scale N m/ft.lb and long service life. Robust steel tube protects all working parts.

Any force applied to the tool after the "click" or applied in the opposite direction to the current function – e.g. forcible loosening of a jammed screw – does not act on the trigger mechanism and cannot cause damage to it.

Recalibration without dismantling using Torque Tester No 7707 W or calibration system No 7706.

Deviation of indication $\pm 4\%$. With certificate.

721 Torque wrenches with reversible ratchet



Code	size					"	b ₁ mm	b ₂ mm	h ₁ mm	h ₂ mm	L mm	L _F mm	$\Delta\varnothing$ g
50 2000 05	5	6–50 N m	5–36 ft.lb	2 N m	1 ft.lb	3/8	28	27.5	23	14.5	352	293	900
50 2000 15	15	30–150 N m	25–110 ft.lb	5 N m	5 ft.lb	1/2	28	41	23	18	452	387	1305
50 2000 30	30	60–300 N m	50–220 ft.lb	10 N m	10 ft.lb	1/2	28	44	23	27.5	553	486	1720

size 30 with push through square drive (spare square drive, refer to page 189)

Standard MANOSKOP® 721Nf

Torque wrenches with dual "STOP" signal and cut-out, micrometer type adjustment, dual scale N m/ft.lb and long service life.

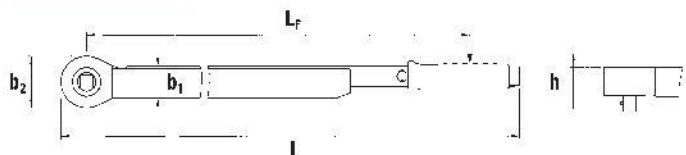
Robust steel tube and light alloy "U"-profile protect all working parts.

Push through square drive for right and left hand tightening.

Easily adjustable without disassembly using tester No 7707 W or calibration system No 7706.

Deviation of indication $\pm 4\%$. With certificate.

721Nf Torque wrenches with ratchet



721Nf/80



721Nf/100

Code	size					"	b ₁ mm	b ₂ mm	h mm	L mm	L _F mm	$\Delta\varnothing$ g
50 2000 81	80	160–800 N m	120–600 ft.lb	20 N m	20 ft.lb	3/4	46.5	76	42	1051	938	6770
96 5020 01	100	200–1000 N m	150–725 ft.lb	25 N m	25 ft.lb	3/4	46.5	76	42	1504	1365	7005



Official partner of
BMW Motorrad Motorsport



Industrial MANOSKOP® 755

Torque wrenches with tool carrier for interchangeable insert tools, dual stop signal and cut-out. Especially light and handy.

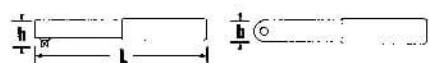
Robust steel tube encloses all working parts. Any force applied to the tool after the "click" or applied in the opposite direction to the current function – max. to measuring range limit of torque wrench – does not act on the trigger mechanism and cannot cause damage to it. Reversible insert tools enable anticlockwise operation. Deviation of indication $\pm 4\%$.

Industrial Manoskop No 755 is designed for continuous production work. Supplied without quick adjustment facility, the cut-out value has to be set with aid of STAHLWILLE Setting Gauge No 7707 W or calibration system No 7706.

If required, can be supplied with a preset trigger setting (price on application). (Inserts see pages 174–179)

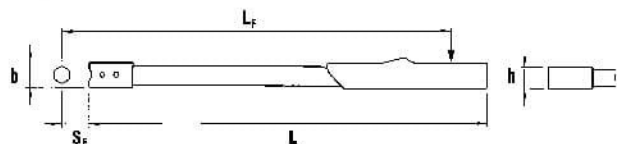
755R/1 Industrial MANOSKOP

Torque wrench with built-in ratchet, irrespective of the point of application of force, dual stop signal and cut-out. Deviation of indication $\pm 4\%$. Cut-out setting with aid of Setting Gauge.



Code			"	b mm	h mm	L mm	$\Delta\Delta$ g
50 10 0001	1.5–12.5 N m	1.0–9.0 ft.lb	1/4	22	18	173.5	335

755 Basic wrenches with tool carrier for insert tool



Code	size				b mm	h mm	L mm	L _F mm	S _F mm	$\Delta\Delta$ g
50 01 0004	4	4–40 N m	4–30 ft.lb	9 x 12	22	18	201	172	17.5	522
50 01 00 10	10	20–100 N m	15–74 ft.lb	9 x 12	28	24	318	289	17.5	635
50 01 00 20	20	40–200 N m	30–147 ft.lb	14 x 18	28	24	457	435	25	1060
50 01 00 30	30	60–300 N m	40–220 ft.lb	14 x 18	28	24	609	587	25	1210

5





TORSIOMAX 775

Torque Screwdriver with cut-out for controlled tightening in cN m and in.lb.

With 1/4" inside hexagon (F 6.3 DIN 3126/ISO 1173), with cut-out, for one-off jobs and production runs, disengaging clutch coupling, clockwise and counterclockwise operation, DIN EN ISO 6789, Type II, Category D.

775 Torque screwdriver TORSIOMAX

The measuring element:

The measuring element is a screw compression spring.

Adjustment:

The level is set steplessly via a rotary micrometer scale.

Safe working methods:

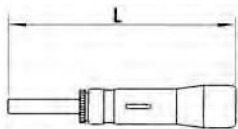
These clicking torque screwdrivers are equipped with a ratchet which disengages when the preset torque level is reached – preventing excessive torque being applied. Deviation of indication $\pm 6\%$. With certificate.

A firm grip:

The shape of the handle and its surface texture ensure safe and accurate transfer of torque.

Insert tools (bits):

For all 1/4" hex E 6.3, Phillips-head screws, POZIDRIV/SUPADRIV[®], straight-slot, TORX[®], hex bits (see p. 152, 153). For very small joints, bits with a 4 mm hex drive and an adaptor No 3115/2 for BITS screwdriver inserts, Type C4, and external hex 1/4" (E 6.3 DIN 3126/ISO 1173) are required (see pp. 148, 151).



775/3



775/12



775/30



775/50



775/100

Code	size			inside O	L mm	$\Delta\Delta$ g
51 0600 03	3 ¹⁾	2–30 cN m	0.2 cN m	F 6.3	105	210
51 0600 12	12 ²⁾	20–120 cN m	1 cN m	F 6.3	157	195
51 0600 30	30 ²⁾	40–300 cN m	1 cN m	F 6.3	160	215
51 0600 50	50 ²⁾	100–500 cN m	2.5 cN m	F 6.3	205	455
51 0601 00	100 ³⁾	400–1000 cN m	5 cN m	F 6.3	235	770
51 4600 03	a/3 ¹⁾	0.2–3 in.lb	0.02 in.lb	F 6.3	105	210
51 4600 12	a/12 ²⁾	2–12 in.lb	0.1 in.lb	F 6.3	157	350
51 4600 50	a/50 ²⁾	10–50 in.lb	0.25 in.lb	F 6.3	205	606

¹⁾ with a swivelling handle-end to improve tool control; and with a clamping screw for locking the preset.

²⁾ with an additional locking mechanism to prevent the selected torque being inadvertently adjusted.

³⁾ with screw-on handles for increasing the force applied for large torques.

Note!

Torque tightening tools are measuring instruments.

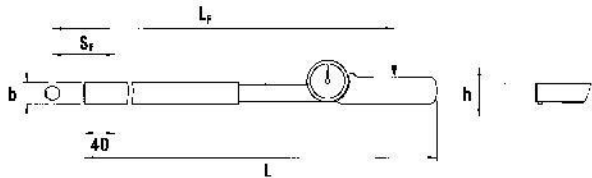
They must be regularly calibrated with suitable instruments and adjusted accordingly (see DIN EN ISO 6789, 5.3 Recalibrating).

Indicating torque wrenches

Can be calibrated with tester No 7707 W or calibration system No 7706.

71/80 MANOSKOP® 71 with integrated force compensator

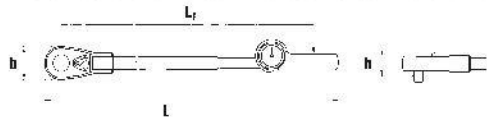
Torque wrench, indicating, with carrier for interchangeable shell tools, registered design; use shell adaptor No 7370/80 to make 14 x 18 mm insert tools fit (max. 650 N m), with pointer follower, scale is made of luminescent light yellow special film enabling clear readings even in poor light conditions, dual scale N m/ft.lb. Handle with integrated force compensator. Measuring element is a deflection plate in the handle, with overload cut-out, anticlockwise by turning over. Deviation of indication $\pm 4\%$. With certificate. (Insert tools see pages 174-179)



Code						b mm	h mm	L mm	L _F mm	S _F mm	$\Delta\Delta$ g
50030080	160-800 N m	120-600 ft.lb	10 N m	10 ft.lb	24.5 x 28	28	24	1048	1050	95	2300

71aR/80 MANOSKOP® 71 with integrated force compensator

Indicating torque wrench with a permanent reversible ratchet and pointer follower. Scale is made of luminescent light yellow special film enabling clear readings even in poor light conditions. Twin scales ft.lb/N m. Dial gauge has a protective ring as additional protection against knocks. Not suitable for anticlockwise use. Boxed. Deviation of indication $\pm 4\%$. With certificate.

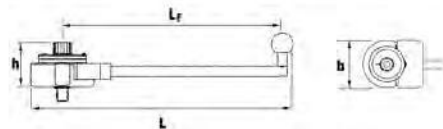


Code					"	b mm	h mm	L mm	L _F mm	$\Delta\Delta$ g
50450080	100-600 ft.lb	160-800 N m	10 ft.lb	10 N m	3/4	70	30	1152	1060	4280

5

73Nm/15 Friction gauge

Indicating torque wrench with permanently attached square drive and trailing pointer dial. No needle wobble during measurements. Lightweight construction through use of aluminium. Deviation of indication $\pm 4\%$. With certificate.



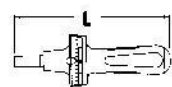
Code			"	b mm	h mm	L mm	L _F mm	S _F mm	$\Delta\Delta$ g
50240015	2-15 N m	0.5 N m	1/2	72	50	298.5	250	0	676

TORSIOMETER 760

Indicating Torque Screwdriver with measuring element = torsional leaf spring, for right hand tightening (with pointer follower) and for left hand tightening.

760 Torque screwdrivers TORSIOMETER

with 1/4" inside hexagon (F 6.3 DIN 3126), with comparison scale in.lb. Deviation of indication $\pm 4\%$.
Insert tools: All tools and accessories with hexagon drive shaft E 6.3 (1/4") DIN 3126/ISO 1173 are safely held in tool carrier.
BITS screwdrivers (see pages 152, 153). For use with 1/4"-sockets, please order adaptor No 3115 (see page 151).



Code	size				inside O	L mm	$\Delta\Delta$ g
51040007	7.5	15-75 cN m	1.5-6.5 in.lb	2.5 cN m	F 6.3	185	225
51040015	15	30-150 cN m	3-13 in.lb	5 cN m	F 6.3	185	225
51040030	30	60-300 cN m	6-26 in.lb	10 cN m	F 6.3	185	230
51040060	60	120-600 cN m	12-52 in.lb	20 cN m	F 6.3	185	230



Electronic angle-controlled torque wrench Sensotork® 713

Simple, flexible operation thanks to operator guidance on large-format display.

Very broad measuring range (5% to 100% of rated value) with deviation of indication $\pm 1\%$ of the current reading. Deviation of indication of angle is $\pm 1\%$.

Repeated joints can be collated to form a single menu-guided sequence. (Insert tools see pages 174–179)

713R Electronic angle-controlled torque wrenches Sensotork®

Electronic angle-controlled torque wrench with insert tool pawl-action ratchet, with QuickRelease safety lock, for clockwise and anticlockwise use, readings independent of point of application of force (sizes 6 and 20), units of measurement: N m, ft.lb, in.lb, advance warning points for visual, tactile and acoustic signals, torque and angle are simultaneously visible, convenient angle measurement across a very wide angle range without a reference arm, choice of individual insert lengths, maintenance friendly due to easy adjustment and automatic reminder of next calibration date, individual identification possible, tamper-proof due to password protection, meets requirements of DKD-R 3-7, Class 2 and DIN EN ISO 6789, with works certificate in accordance with DIN EN 10204, supplied in sturdy plastic case (size 40 in sturdy steel case). Included in the set are three 1.5 V AA batteries. It is also possible to use rechargeable batteries (AA/LR6, NIMH, 1.2 V). Fully automated calibration (torque) using perfectControl calibrating unit No 7794-2.



Code	size			"		b mm	h mm	L mm	$\Delta\theta$ g	$\Delta\theta$ g with box
96 50 16 06	6	3–60 N m	2.5–44 ft.lb	$\frac{3}{8}$	9 x 12	50	33.5	378	856	1500
96 50 16 20	20	10–200 N m	7–148 ft.lb	$\frac{1}{2}$	14 x 18	50	33.5	608	1552	2430
96 50 16 40	40	20–400 N m	15–296 ft.lb	$\frac{3}{4}$	14 x 18	50	33.5	838	2332	5555

Electronic torque wrench Sensotork 712®

712R/6* Electronic torque wrench Sensotork®

Electronic torque wrench with option of attaching interchangeable insert tools, same design as No 713 but without angle function.



Code			"		b mm	h mm	L mm	$\Delta\theta$ g	$\Delta\theta$ g with box
96 50 15 06	3–60 N m	2.5–44 ft.lb	$\frac{3}{8}$	9 x 12	50	33.5	378	856	1500

* to be discontinued

Accessories for electronic angle-controlled torque wrench Sensotork® No 713 and electronic torque wrench Sensotork® No 712

7759-1 USB adaptor, jack cable and software Sensomaster for No 712R, 713R

for documenting and managing readings on a PC and carrying out statistical analyses.

- Read out stored wrench data and joint readings: Joint identifier, Tool serial number, Target torque or target angle, Torque level at which the tool cuts out, Tightening torque or angle reached, Tolerances, Joint evaluation
- Storage of joint data in a database
- Delete or print highlighted joints from the database
- Export displayed joint data to a CSV file (compatible with Excel)
- 13 languages
- User management
- Define new PIN
- Delete joint data stored in wrench

System requirements:

- PC
- Microsoft Windows 98 SE or compatible operating system with USB support
- USB connection
- Screen resolution of at least 1024 x 768 pixels
- STAHLWILLE USB hub or STAHLWILLE USB adaptor cable
- Installed ODBC driver for Access data



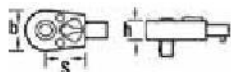
Code	L m	$\Delta\theta$ g
96 58 36 25	1.5	137

Insert/shell tools for torque wrenches

725QR QuickRelease ratchet insert tool



reversible, with QuickRelease safety lock,
size 4: 22 teeth, sizes 5 and 10: 30 teeth, size 20: 36 teeth.

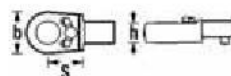


Code	size	"	mm	b mm	h mm	S mm	Δ g
58 25 30 04	4	1/4	9 x 12	22	14.5	17.5	60
58 25 30 05	5	3/8	9 x 12	29	14.5	28*	130
58 25 30 10	10	1/2	9 x 12	29	14.5	28*	141
58 25 30 20	20	1/2	14 x 18	41	18	38.5*	325

* Caution! Modified settings on torque wrench
(refer to note on page 190)

725B Ratchet insert tool

reversible, with inside hexagon, 1/4" or 5/16", DIN 3126/ISO 1173 D 6.3 or D8, for direct acceptance of bits 1/4" or 5/16" outside hexagon C 6.3 (size 4: 22 teeth, size 5: 30 teeth). Internal hex drive with a collar-thrust spring (registered design). Bits are easy to insert, lock securely in position and can be removed just as easily; even hex bits with a wide groove (Type E, DIN 3126/ISO 1173).

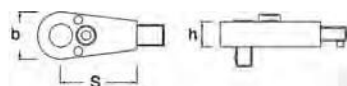


Code	size	inside size	mm	b mm	h mm	S mm	Δ g
58 25 50 04	4	1/4	9 x 12	22	14	17.5	54
58 25 50 05	5	5/16	9 x 12	29	14.5	28*	117

* Caution! Modified settings on torque wrench
(refer to note on page 190)

725L/5 Ratchet insert tool

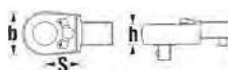
reversible, 30 teeth.
Caution! Modified settings on torque wrench (refer to note on p. 190).
This ratchet insert tool has the same extension length as ring insert tool No 732G/10 (see p. 177) and square drive insert tool No 734L/5 (see p. 175).



Code	"	mm	b mm	h mm	S mm	Δ g
58 15 10 05	3/8	9 x 12	27.5	14.5	45	164

725/4 Ratchet insert tool

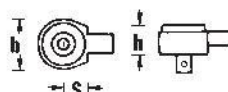
reversible, 22 teeth.



Code	"	mm	b mm	h mm	S mm	Δ g
58 25 40 04	1/4	9 x 12	22	14.5	17.5	62

735 Ratchet insert tools

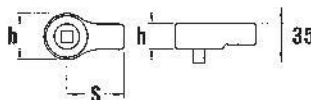
reversible, 60 teeth.



Code	size	"	mm	b mm	h mm	S mm	Δ g
58 25 00 05	5	3/8	9 x 12	33	23.8	17.5	155
58 25 00 10	10	1/2	9 x 12	33	23.8	17.5	147
58 25 00 20	20	1/2	14 x 18	43	26	25	302
58 25 00 40	40	3/4	14 x 18	50	31.5	25	510

735/80 Ratchet shell tool

with push through square drive, registered design, 30 teeth.

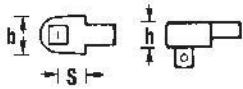


Code	"	mm	b mm	h mm	S mm	Δ g
58 25 00 80	3/4	24.5 x 28	76	43	95	2000





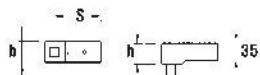
734 Square drive insert tools



Code	size	"	mm	b mm	h mm	S mm	ΔΔ g
58 2400 04	4	1/4	9 x 12	20	14	17.5	71
58 2400 05	5	3/8	9 x 12	20	14	17.5	76
58 2400 10	10	1/2	9 x 12	20	14	17.5	82
58 2400 20	20	1/2	14 x 18	27	18	25	203
58 2400 40	40	3/4	14 x 18	40	25	25	396

734/80 Square drive shell tool

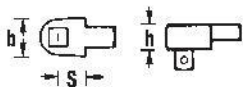
registered design.



Code	"	mm	b mm	h mm	S mm	ΔΔ g
58 2400 80	3/4	24.5 x 28	42	42	95	1200

734F Square drive insert tools

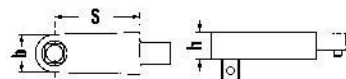
with permanently attached, captive square drive.



Code	size	"	mm	b mm	h mm	S mm	ΔΔ g
58 24 10 04	4	1/4	9 x 12	22	14	17.5	72
58 24 10 05	5	3/8	9 x 12	22	14	17.5	75

734L/5 Square drive insert tool

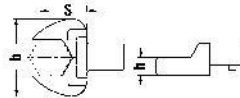
Caution! Modified settings on torque wrench (refer to note on p. 190). This square-drive insert tool has the same extension length as ring insert tool No 732G/10 (see p. 177) and ratchet insert tool No 725L/5 (see p. 174).



Code	"	mm	b mm	h mm	S mm	ΔΔ g
58 24 20 05	3/8	9 x 12	20	14	45	141

731/10 Open ended insert tools

9 x 12 mm



Code	"	b mm	h mm	S mm	ΔΔ g
58 21 10 07	7	22	5	17.5	40
58 21 10 08	8	22	5	17.5	39
58 21 10 09	9	26	5.5	17.5	38
58 21 10 10	10	26	5.5	17.5	42
58 21 10 11	11	26	5.5	17.5	41
58 21 10 12	12 ¹⁾	30	7	17.5	43
58 21 10 13	13	30	7	17.5	48
58 21 10 14	14	35	8	17.5	52
58 21 10 15	15	35	8	17.5	51
58 21 10 16	16	38	8.5	17.5	58
58 21 10 17	17	38	8.5	17.5	60
58 21 10 18	18	42	9	20*	71
58 21 10 19	19	42	9	20*	74

¹⁾ For flare nuts of hydraulic pipes on French vehicles

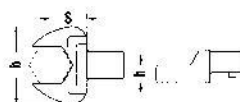
731a/10 Open ended insert tools

9 x 12 mm

Code	"	b mm	h mm	S mm	ΔΔ g
58 61 10 16	1/4	22	5	17.5	36
58 61 10 20	5/16	22	5	17.5	53
58 61 10 24	3/8	26	5.5	17.5	38
58 61 10 28	7/16	26	5.5	17.5	37
58 61 10 32	1/2	30	7	17.5	44
58 61 10 34	9/16	35	8	17.5	49
58 61 10 36	5/8	38	8.5	17.5	64
58 61 10 38	11/16	42	9	20*	76
58 61 10 40	3/4	42	9	20*	73

731/40 Open ended insert tools

14 x 18 mm



Code	"	b mm	h mm	S mm	ΔΔ g
58 21 40 13	13	30	7	25	128
58 21 40 14	14	35	8	25	129
58 21 40 15	15	35	8	25	132
58 21 40 16	16	38	9	25	140
58 21 40 17	17	38	9	25	136
58 21 40 18	18	42	10	25	147
58 21 40 19	19	42	10	25	145
58 21 40 21	21	50	11	25	171
58 21 40 22	22	50	11	25	165
58 21 40 24	24	53	12	25	167
58 21 40 25	25	53	12	25	170
58 21 40 27	27	60	13	30*	219
58 21 40 30	30	66	14	30*	245
58 21 40 32	32	66	14	32.5*	246
58 21 40 34	34	66	14	32.5*	239
58 21 40 36	36	74	15	32.5*	275
58 21 40 38	38	74	15	32.5*	265
58 21 40 41	41	82	15	36.5*	307

* Caution! Modified settings on torque wrench (refer to note on page 190).

5

731a/40 Open ended insert tools

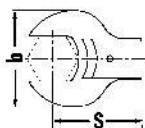
14 x 18 mm.

Code	Ø "	b mm	h mm	S mm	ΔΔ g
58 61 40 28	7/16	30	7	25	127
58 61 40 32	1/2	30	7	25	125
58 61 40 34	9/16	35	8	25	129
58 61 40 36	5/8	38	9	25	136
58 61 40 38	11/16	42	10	25	148
58 61 40 40	3/4	42	10	25	144
58 61 40 42	13/16	50	11	25	171
58 61 40 44	7/8	50	11	25	165
58 61 40 46	15/16	53	12	25	177
58 61 40 48	1	60	13	30*	224
58 61 40 52	1 1/8	66	14	30*	258

* Caution! Modified settings on torque wrench (refer to note on page 190).

731/80 Open ended shell tools

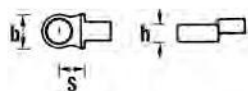
registered design. 24.5 x 28 mm



Code	Ø mm	b mm	h mm	S mm	ΔΔ g
58 21 80 24	24	50	13	95	601
58 21 80 27	27	56	14	95	620
58 21 80 30	30	63	15	95	655
58 21 80 32	32	67	15	95	670
58 21 80 34	34	72	15	95	699
58 21 80 36	36	74	15	95	740
58 21 80 41	41	84	16	95	810
58 21 80 46	46	94	17	95	867
58 21 80 50	50	104	18	95	1010
58 21 80 55	55	114	19	95	1150
58 21 80 60	60	124	20	95	1330

732/10 Ring insert tools

AS-drive
9 x 12 mm



Code	Ø mm	b mm	h mm	S mm	ΔΔ g
58 22 10 07	7	13	8	17.5	37
58 22 10 08	8	14.2	8	17.5	40
58 22 10 10	10	17.2	9	17.5	44
58 22 10 11	11	18.5	9	17.5	41
58 22 10 12	12	20.5	11	17.5	49
58 22 10 13	13	21.5	11	17.5	55
58 22 10 14	14	22.5	11	17.5	52
58 22 10 15	15	24.5	12	17.5	52
58 22 10 16	16	26	12	17.5	54
58 22 10 17	17	27	13	17.5	59
58 22 10 18	18	28	13	17.5	56
58 22 10 19	19	30.5	13	17.5	65
58 22 10 21	21	33	15	17.5	71
58 22 10 22	22	34.5	15	17.5	74

732a/10 Ring insert tools

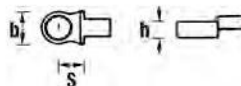
AS-drive
9 x 12 mm

Code	Ø "	b mm	h mm	S mm	ΔΔ g
58 62 10 16	1/4	13	8	17.5	36
58 62 10 20	5/16	14.2	8	17.5	37
58 62 10 24	3/8 ¹⁾	17.2	9	17.5	37
58 62 10 28	7/16	18.5	9	17.5	40
58 62 10 32	1/2	21.5	11	17.5	53
58 62 10 34	9/16	22.5	11	17.5	52
58 62 10 36	5/8	26	12	17.5	54
58 62 10 38	11/16	28	13	17.5	58
58 62 10 40	3/4	30.5	13	17.5	58
58 62 10 42	13/16	33	15	17.5	68
58 62 10 44	7/8	34.5	15	17.5	69

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

732/40 Ring insert tools

AS-drive
14 x 18 mm



Code	Ø mm	b mm	h mm	S mm	ΔΔ g
58 22 40 13	13	22.5	11	25	130
58 22 40 14	14	23	11	25	123
58 22 40 15	15	24	11	25	128
58 22 40 16	16	25.5	12	25	133
58 22 40 17	17	27	12	25	135
58 22 40 18	18	29	13	25	134
58 22 40 19	19	30.5	13	25	138
58 22 40 21	21	33	15	25	144
58 22 40 22	22	34.5	15	25	145
58 22 40 24	24	37.5	15	25	153
58 22 40 27	27	42.5	17	25	162
58 22 40 28	28	45.5	19	25	175
58 22 40 30	30	46	19	25	182
58 22 40 32	32	47.5	19	25	181
58 22 40 34	34	52	19	28*	210
58 22 40 36	36	54	19	28*	203
58 22 40 41	41	60	20	30*	240

* Caution! Modified settings on torque wrench (refer to note on page 190).

732a/40 Ring insert tools

AS-drive
14 x 18 mm

Code	Ø "	b mm	h mm	S mm	ΔΔ g
58 62 40 32	1/2	22.5	11	25	122
58 62 40 34	9/16	23	11	25	122
58 62 40 36	5/8	25.5	12	25	134
58 62 40 38	11/16	29	13	25	132
58 62 40 40	3/4	30.5	13	25	138
58 62 40 42	13/16	33	15	25	142
58 62 40 44	7/8	34.5	15	25	147
58 62 40 46	15/16	37.5	15	25	151
58 62 40 48	1	41	17	25	160

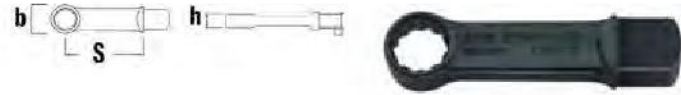


732G/10 Ring insert tools

AS-drive HPQ

9 x 12 mm

Caution! Modified settings on torque wrench (refer to note on p. 190). This insert tool has the same extension length as insert tool No 725L/5 (see p. 174) and square-drive insert tool No 734L/5 (see p. 175). HPQ high performance steel, gunmetal finish.



Code	Ø mm	b mm	h mm	S mm	ΔΔ g
58 62 00 07	7	11.5	6	45	31
58 62 00 08	8	12.4	6	45	33
58 62 00 09	9	14	8	45	40
58 62 00 10	10	15.6	8	45	44
58 62 00 13	13	19.3	9.2	45	60

732aG/10 Ring insert tools

AS-drive HPQ

9 x 12 mm

Caution! Modified settings on torque wrench (refer to note on p. 190). This insert tool has the same extension length as insert tool No 725L/5 (see p. 174) and square-drive insert tool No 734L/5 (see p. 175). HPQ high performance steel, gunmetal finish.

Code	Ø "	b mm	h mm	S mm	ΔΔ g
58 62 12 16	1/4	10.4	6	45	28
58 62 12 20	5/16	12.4	6	45	31
58 62 12 24	3/8	14.9	8	45	42
58 62 12 28	7/16	17	8	45	43
58 62 12 32	1/2	19	9.2	45	58
58 62 12 34	9/16	21	9.2	45	58
58 62 12 36	5/8	23	12	45	74

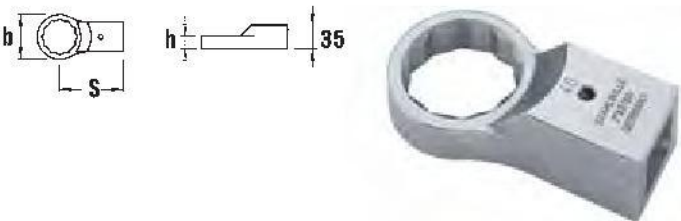
for assembling and dismantling aero-engines.

732/80 Ring shell tools

AS-drive

registered design.

24.5 x 28 mm



Code	Ø mm	b mm	h mm	S mm	ΔΔ g
58 22 80 24	24	36	15	95	605
58 22 80 27	27	40.5	15	95	610
58 22 80 30	30	46	16	95	630
58 22 80 32	32	49	16	95	635
58 22 80 34	34	52	17	95	650
58 22 80 36	36	54	17	95	650
58 22 80 41	41	61	18	95	675
58 22 80 46	46	66	19	95	720
58 22 80 50	50	75	20	95	803
58 22 80 55	55	84	21	95	889
58 22 80 60	60	93	22	95	995

732a/80 Ring shell tools

AS-drive

registered design.

24.5 x 28 mm

Code	Ø "	b mm	h mm	S mm	ΔΔ g
58 62 80 46	15/16 ¹⁾	36	14	95	604
58 62 80 50	1 1/16 ¹⁾	40.5	14	95	608

¹⁾ for jet engine pins (Airbus A320/A321)

732TX/10 TORX® insert tools

9 x 12 mm



Code	size	b mm	h mm	S mm	ΔΔ g
58 29 10 06	E6	13	8	17.5	40
58 29 10 08	E8	14.2	8	17.5	45
58 29 10 10	E10	17.2	9	17.5	45
58 29 10 12	E12	18.5	9	17.5	50
58 29 10 14	E14	21.5	11	17.5	60

732TX/40 TORX® insert tools

14 x 18 mm



Code	size	b mm	h mm	S mm	ΔΔ g
58 29 40 14	E14	22.5	11	25	130
58 29 40 18	E18	24	11	25	135
58 29 40 20	E20	29	13	25	150
58 29 40 24	E24	30.5	13	25	150

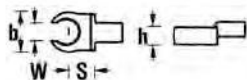
5



733/10 Open ring insert tools

AS-drive

9 x 12 mm



Code	Ø mm	b mm	h mm	W mm	S mm	ΔΔ g
58 23 10 10	10	21.5	11	7.1	17.5	57
58 23 10 11	11	22.5	11	8.6	17.5	55
58 23 10 12	12	24.5	12	9	17.5	59
58 23 10 13	13	26	12	10	17.5	55
58 23 10 14	14	27	13	11	17.5	60
58 23 10 16	16	30.5	13	13	17.5	65
58 23 10 17	17	31.5	13	14	17.5	64
58 23 10 18	18	33	15	14.8	17.5	74
58 23 10 19	19	34	15	15.8	17.5	80
58 23 10 21	21	38.5	15	16.2	20*	88
58 23 10 22	22	39.5	15	17	20*	92
58 23 10 24	24	40	15	18	20*	75

* Caution! Modified settings on torque wrench (refer to note on page 190).

733a/10 Open ring insert tools

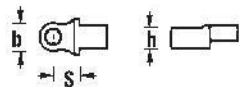
AS-drive

9 x 12 mm

Code	Ø "	b mm	h mm	W mm	S mm	ΔΔ g
58 63 10 24	3/8	21.5	11	7.1	17.5	55
58 63 10 28	7/16	22.5	11	8.6	17.5	56
58 63 10 32	1/2	26	12	9.5	17.5	58
58 63 10 34	9/16	27.5	13	11	17.5	59
58 63 10 36	5/8	30.5	13	12.7	17.5	61
58 63 10 38	11/16	33	15	14	17.5	48
58 63 10 40	3/4	34	15	15.8	17.5	76

736 BIT holder insert tools

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

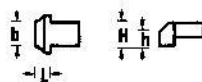


Code	size	inside Ø	"	Ø mm	b mm	h mm	S mm	ΔΔ g
58 26 10 10	10	D 8	5/16	9 x 12	16	12.5	17.5	47
58 26 26 10	10-1	D 6.3	1/4	9 x 12	14	10	17.5	45
58 26 10 40	40	D 8	5/16	14 x 18	16	12.5	25	112

inside Ø DIN 3126/ISO 1173

737 Blank end insert tools

gunmetal finish. To prevent damage from excessive temperatures, the locking pin, spring and washer are not fitted until the welding work has been completed. Instructions are supplied.

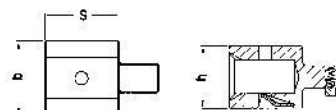


Code	Welding surface size	h x b mm	Ø mm	H mm	L mm	ΔΔ g
58 27 00 10	10	8 x 14	9 x 12	14.5	8	35
58 27 00 40	40	11 x 25	14 x 18	21.5	12	98

7370/10 Adaptor



for using insert tools with an outer square drive of 14 x 18 mm on torque wrenches with an internal square drive of 9 x 12 mm. Caution! Modified settings on torque wrench (refer to note on p. 190).

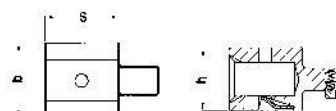


Code	■ mm	○ mm	b mm	h mm	S mm	ΔΔ g
58 29 00 10	9 x 12	14 x 18	31	26	30.5	114

7370/40 Adaptor



for using insert tools with an outer square drive of 9 x 12 mm on torque wrenches with an internal square drive of 14 x 18 mm. Caution! Modified settings on torque wrench (refer to note on p. 190).

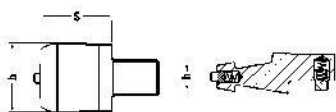


Code	■ mm	○ mm	b mm	h mm	S mm	ΔΔ g
58 29 00 40	14 x 18	9 x 12	28	21	21.5	115



7370/10-2 Adaptor

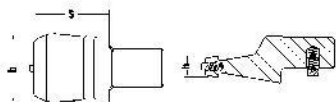
for use with insert tools with a lateral dovetail profile in torque wrenches with 9 x 12 mm internal square drives.
Caution! Modified settings on torque wrench (refer to note on p. 190).



Code	mm	b mm	h mm	S mm	$\Delta\varnothing$ g
58 2900 12	9 x 12	23.5	9.5	24	51

7370/40-2 Adaptor

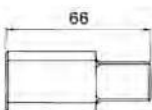
for use with insert tools with a lateral dovetail profile in torque wrenches with 14 x 18 mm internal square drives.
Caution! Modified settings on torque wrench (refer to note on p. 190).



Code	mm	b mm	h mm	S mm	$\Delta\varnothing$ g
58 2900 42	14 x 18	31.5	9.5	34.6	138

7370/40-1 Adaptor

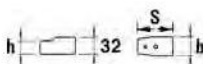
for using shell tools with an internal square drive of 24.5 x 28 mm on torque wrenches with an internal square drive of 14 x 18 mm.
Caution! Modified settings on torque wrench (refer to note on p. 190).



Code	mm	mm	b mm	h mm	$\Delta\varnothing$ g
58 2900 41	14 x 18	24.5 x 28	28	24	251

7370/80 Shell adaptor

registered design, for attaching 14 x 18 mm insert tools.
Caution! Modified settings on torque wrench (refer to note on p. 190).



Code	mm	mm	b mm	h mm	S mm	$\Delta\varnothing$ g
58 2900 80	24.5 x 28	14 x 18	36	26	70	281

Tool holder

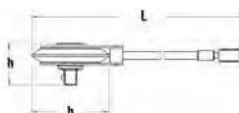
with tool carrier to receive insert tools (without torque function).



Code	No	mm	L mm	$\Delta\varnothing$ g
18 2000 01	1820	9 x 12	382.5	490
18 2100 01	1821	14 x 18	575	720

7380N/7385N Torque angle gauges

registered design, for angle controlled bolt/screw tightening, with static read-off point. Read-off possible from any angle thanks to a pair of angled scales. Removable magnet for attaching sockets with 1/2" internal square drive. For use in conjunction with tightening tools such as Service MANOSKOP® No 730N. Since this tightening method requires a pre-determined snug torque to be applied, it is essential to choose a torque wrench covering both snug torque as well as maximum torque required to reach the recommended tightening angle. Whether 1/2" or 3/4" sq.dr. Torque Angle Gauge is used depends upon the square drive of the appropriate torque wrench employed.



Code	No	"	"		b mm	h mm	L mm	$\Delta\varnothing$ g	
54 0100 01	7380N	1/2	1/2	$\pm 360^\circ$	2°	78	43	416	494
54 0100 02	7385N	3/4	3/4	$\pm 360^\circ$	2°	78	76	416	720

5



Electronic torque tester for torque wrenches Sensotork® 7707 W (For complete calibration systems, see p. 161)

Compact workshop-based 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. 181).

High degree of safety through display showing actual torque read-off where clicking torque wrenches are used.

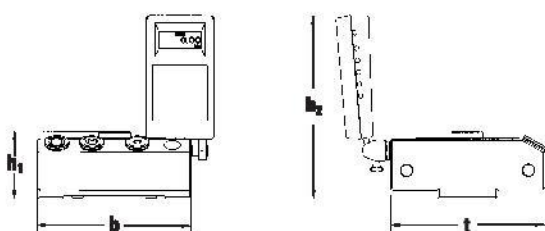
7707 W Workshop torque tester Sensotork®



Electronic workshop torque tester for torque wrenches, consisting of:

- transducer (registered design)
- holder
- display unit (registered design)
- tripod for display unit (with 1.5 m cable)
- spiral cable
- mains adaptor (110 V–230 V with interchangeable socket adaptors) or direct connection to 12 V in-car supply is possible
- square drive adaptor (No 7707-2W, No 7707-2-1W, No 7707-2-2W, No 7707-3W)
- kit for attaching the unit to a workbench or wall in a horizontal or vertical testing position

for clockwise and anticlockwise use. Units of measurement: N m, ft.lb, in.lb. The easily interchangeable transducers are attached to the holder by means of a QuickRelease safety lock. Low lateral forces thanks to low-profile transducers, automatic detection of the transducer, flexible and user friendly because the unit can be used horizontally or vertically and the display unit can be placed in many positions, additional tripod with 1.5 m cable for mounting the display unit to facilitate visual monitoring when using longer torque wrenches, especially broad measuring range from approx. 2% to 100% of rated value. The software No 7759-2, including USB hub and jack cable (see p. 182), enables readings to be transferred to the PC for documenting and for generating calibration certificates in accordance with DIN EN 6789:2003 (no separate power supply needed, power comes from PC). While individual transducers are being recalibrated, the torque tester itself remains on-site for further use. Wide range of application (-20°C to +60°C). Complies with DIN 51309: 2005, Class 2 and DKD-R 3-8: 2003. With certificate. Supplied in sturdy plastic case.



Code	No	Capacity N m	Capacity ft.lb	Capacity in.lb	Ø "	b mm	h ₁ mm	h ₂ mm	t mm	ΔΔ g	ΔΔ g with box
96 52 10 80	7707-1W	0.4–20	0.3–15	3.5–177	1/4	180	79	215	180	6255	9500
96 52 10 72	7707-2W ¹⁾	2–100	1.5–74	18–885	3/8	180	79	215	180	7025	10300
96 52 10 83	7707-2-1W ²⁾	4–200	3–148	35–1770	1/2	180	79	215	180	7511	10975
96 52 10 84	7707-2-2W ³⁾	8–400	6–295	71–3540	3/4	180	79	215	180	7654	11100
96 52 10 82	7707-3W ⁴⁾	25–1100	18–812	221–9736	3/4	180	79	215	180	7495	11000

¹⁾ with square drive adaptor No 409M (1/4" Ø x 3/8" ■)

²⁾ with square drive adaptors No 7789-4 (1/4" Ø x 1/2" ■), No 7789-5 (3/8" Ø x 1/2" ■)

³⁾ with square drive adaptors No 7787 (1/4" Ø x 3/4" ■), No 7788 (3/8" Ø x 3/4" ■), No 7789 (1/2" Ø x 3/4" ■)

⁴⁾ with square drive adaptors No 7787 (1/4" Ø x 3/4" ■), No 7788 (3/8" Ø x 3/4" ■), No 7789 (1/2" Ø x 3/4" ■)



Which transducer is for which torque wrench?

(Calibration in accordance with DIN EN ISO 6789: 2003)

STAHLWILLE's recommendation:

+++ very well suited ++ well suited + suitable

No	7721-1	7722	7723-1	7723-2	7723-3
730D/10		+++			
730D/20			+++		
730D/40				+++	
730D/65					+++
730N/2	+++				
730N/5		+++			
730N/10		+++	++		
730N/12			+++		
730N/20			+++	++	
730N/40				+++	
730N/65					+++
730Na/2	+++				
730Na/5		+++			
730Na/10		+++	++		
730Na/20			+++	++	
730Na/40				+++	
730/2	+++	++	+		
730/4		+++	++	+	
730a/2	+++	++	+		
730a/4		+++	++	+	
730/5		+++	++		
730/10		+++	++	+	
730/12			+++	++	+
730/20			+++	++	+
730/40				+++	++
730/65					+++

No	7721-1	7722	7723-1	7723-2	7723-3	7724-1
730a/5		+++	++			
730a/10		+++	++	+		
730a/12			+++	++	+	
730a/20			+++	++	+	
730/80					+++	+
720Nf/80					+++	+
721/5		+++	++			
721/15			+++	++	+	
721/30				+++	++	
721Nf/80					+++	+
721Nf/100					+++	+
755R/1	+++					
755/4		+++	++			
755/10		+++	++	+		
755/20			+++	++	+	
755/30				+++	++	
71/40				+++	++	
71/80					+++	+
71aR/80					+++	+
73Nm/15	+++	++				
712R/6		+++				
712R/20			+++			
712R/40				+++		
713R/6		+++				
713R/20			+++			
713R/40				+++		

7721-7724 Transducers



registered design, high degree of accuracy thanks to conversion and digitization of readings within the transducer itself. Not susceptible to lateral forces due to low-profile construction. Can also be used as part of a calibration system (see p. 161). With certificate.



Code	No	Measuring ranges by deviation of indication									⌀	g
		Display deviation value ± 1% of the reading			Display deviation value ± 0.5% of the reading			Display deviation value ± 0.25% of the reading				
		N m	ft.lb	in.lb	N m	ft.lb	in.lb	N m	ft.lb	in.lb		
52 1000 21	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	1/4	1735
52 1000 26	7721-1	0.4-20	0.3-15	3.5-177	2-20	1.5-15	18-177	4-20	3-15	35-177	1/4	1735
52 1000 22	7722	2-100	1.5-74	18-885	10-100	7-74	89-885	12-100	9-74	106-885	3/8	2486
52 1010 23	7723-1	4-200	3-148	35-1770	20-200	15-148	177-1770	40-200	30-148	354-1770	1/2	2983
52 1020 23	7723-2	8-400	6-295	71-3540	40-400	30-295	354-3540	80-400	59-295	708-3540	3/4	3134
52 1000 28	7723-3	25-1100	18-812	221-9736	110-1100	81-812	974-9736	220-1100	162-812	1947-9736	3/4	2998
52 1000 29	7724-1 ²⁾	150-3000	111-2214	1328-26553	300-3000	221-2214	2655-26553	600-3000	443-2214	5311-26553	1 1/2	10500

¹⁾ for calibrating torque screwdrivers

²⁾ for use with mechanical loader No 7792 and 7792-1 (see p. 185)

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.