

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.

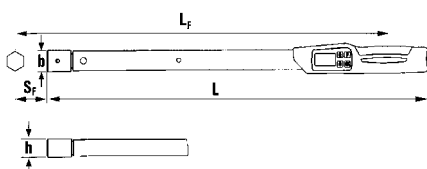
In sturdy plastic case (size 40 and 65 in steel case). Units of measurement: N m, ft.lb, in.lb

Deviation of indication $\pm 2\%$. With certificate.

Our own patents are pending.

(Inserts see pages 174–179)

730D Basic wrenches with tool carrier for insert tools



730D/20



Code	size				Setting/display resolution				b	h	L	L _f	S _f	Δ g	Δ g with box
		N m	ft.lb	in.lb	Nm	ft.lb	in.lb	mm	mm	mm	mm	mm	mm	g	
9650 17 10	10	10–100	7.4–75	90–900	0.2/0.1	0.2/0.1	2/1.0	9 x 12	28	23	467	426.5	17.5	1085	1510
9650 17 20	20	20–200	15–150	180–1800	0.5/0.1	0.5/0.1	5/1.0	14 x 18	28	23	548	515	25	1361	1896
9650 17 40	40	40–400	30–300	360–3600	1.0/0.1	1.0/0.1	10/1.0	14 x 18	28	23	688	655	25	1765	5155
9650 17 65	65	65–650	48–480	580–5800	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		Δ g	Δ g with box
9650 18 10	10	1/2	1232	1657
9650 18 20	20	1/2	1663	2198
9650 18 40	40	3/4	2232	4722
9650 18 65	65	3/4	3767	6530



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.

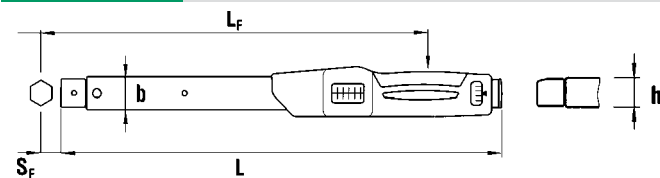
Any force applied to the tool after the "click" or applied in the opposite direction to the current function – e.g. forcible loosening of a jammed screw – does not act on the trigger mechanism and cannot cause damage to it. The swap-over inserts can also be used to apply torque in an anti-clockwise direction.

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

Deviation of indication $\pm 3\%$. With certificate.

(Inserts see pages 174–179)

730N Basic wrenches with tool carrier for insert tools



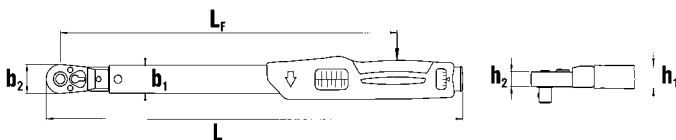
730N/10



Code	size					Fine scale 	 mm	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).



730NR/20QR FK

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

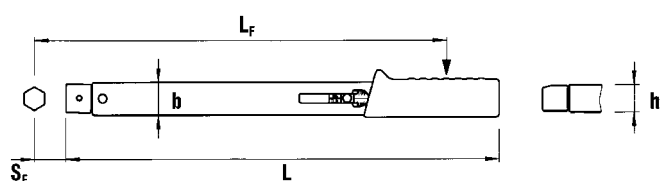
Torque wrenches with tool carrier for interchangeable insert tools, with cut-out, with QuickRelease safety lock (size 5–65) dual signal, rapid adjustment (size 2–65), dual scale N m/ft.lb and N m/inch.lb. (size 5–80), long term accuracy and facility to accept insert/shell tools.

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.

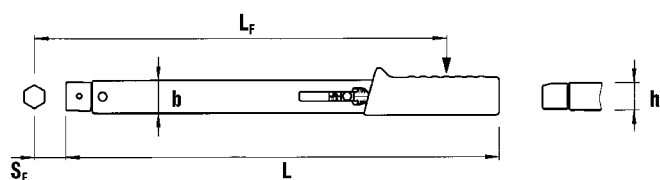
(Insert/shell tools see pages 174–179)

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	$\Delta\Delta$ g
50 18 00 02	2	4–20 N m	0.5 N m		9 x 12	27.5	23	178.5	174	17.5	315
50 18 00 04	4	8–40 N m	1 N m		9 x 12	27.5	23	222	218	17.5	395
50 58 00 01	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 58 00 02	a/2	30–175 in.lb	5 in.lb		9 x 12	27.5	23	178.5	174	17.5	315
50 58 00 04	a/4	70–350 in.lb	10 in.lb		9 x 12	27.5	23	222	218	17.5	395

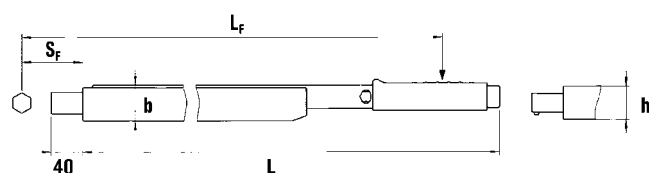


730/5



Code	size					mm	b mm	h mm	L mm	L _F mm	S _F mm	$\Delta\Delta$ g
50 18 00 05	5	6–50 N m	5–36 ft.lb			9 x 12	28	23	315	288	17.5	805
50 18 00 10	10	20–100 N m	15–72.5 ft.lb			9 x 12	28	23	370	343	17.5	1210
50 18 00 12	12	25–130 N m	20–95 ft.lb			14 x 18	28	23	410	390	25	1100
50 18 00 20	20	40–200 N m	30–145 ft.lb			14 x 18	28	23	455	435	25	1250
50 18 00 40	40	80–400 N m	60–300 ft.lb			14 x 18	28	23	590	570	25	1880
50 18 00 65	65	130–650 N m	100–480 ft.lb			14 x 18	30.6	25.6	875	855	25	3480
50 58 00 05	a/5	6–50 N m	50–440 in.lb			9 x 12	28	23	315	288	17.5	805
50 58 00 10	a/10	20–100 N m	180–880 in.lb			9 x 12	28	23	370	343	17.5	965
50 58 00 12	a/12	25–130 N m	225–1150 in.lb			14 x 18	28	23	410	390	25	1100
50 58 00 20	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	$\Delta\Delta$ g
50 18 00 80	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.

Standard MANOSKOP® 721

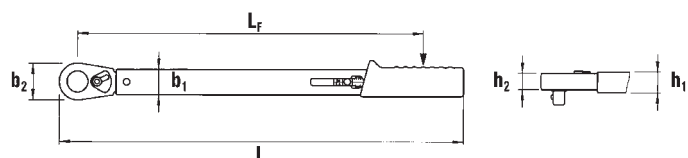
Torque wrenches with dual "Stop" signal and cut-out, rapid adjustment, dual scale N m/ft.lb and long service life. Robust steel tube protects all working parts.

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	Δg g
50 20 00 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 20 00 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 20 00 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.

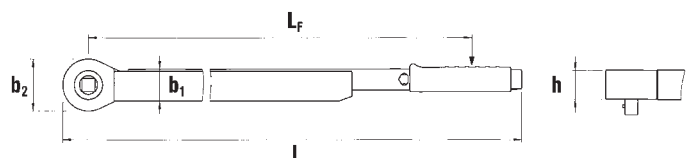
Robust steel tube and light alloy "U"-profile protect all working parts.

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	Δg g
50 20 00 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 50 20 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



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