

TORQUE & ANGLE MEASURING TOOLS

POLAR TOOLS - QUALITY, RELIABILITY AND USABILITY

7100 TORQUE WRENCHES



TECNICAL INFORMATION

ISO 6789, DIN 3122, EN 26789

- Adjustable torque wrench with reversible ratchet.
- Angle indication printed on ratchet head for tightenings with angle control.
- Precision: $\pm 4\%$.
- Click-signal on reaching preset torque value.
- Supplied with calibration certificate.
- Wrench is supplied in protective plastic case.



ITEM NO.	5704196+	CAPACITY Nm	INCREMENTS Nm	■	L mm	⚖ G
7114-0020	018720	4-20	0,1	1/4"	325	650
7138-0060	018737	10-60	0,5	3/8"	335	750
7138-0120	018744	20-120	1	3/8"	445	1250
7112-0200	018751	40-200	1	1/2"	510	1550
7112-0340	018768	60-340	2	1/2"	615	1750
7134-0600	018775	100-600	5	3/4"	1050	4950
7134-1000	018782	200-1000	5	3/4"	1240	6000

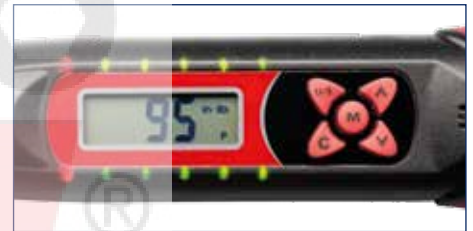
7300 A **DIGITAL TORQUE WRENCHES**



TECNICAL INFORMATION

ISO 6789, DIN 3122, EN 26789

- Digital torque wrench with reversible 36 teeth ratchet, for both clockwise and counterclockwise operation.
- Accuracy: $\pm 2\%$ (CW) / $\pm 3\%$ (CCW) from 20% to 100% of full scale.
- Two operation modes: Track (shows actual torque applied) and Peak (shows maximum reached torque).
- 4 Torque units: Nm, kg-cm, in-lb and ft-lb.
- Acoustic and green/red LED signal at preset torque value.
- Memory function with 9 preset torque values and 50 measurements.
- Battery life (continuous operation): 110 hrs.
- Operating temperature: $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$.
- Storage temperature: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$.
- Comfortable, non-slip grip handle.
- Humidity: Up to 90% non-condensing.
- Supplied with test certificate, batteries and storage case.



ITEM NO.	5704196+	CAPACITY Nm	INCREMENTS Nm	CAPACITY kg-cm	INCREMENTS kg-cm	CAPACITY in-lb	INCREMENTS in-lb	CAPACITY ft-lb	INCREMENTS ft-lb	■	L mm	⚙️ G	
7314-1030	022055	1,5-30	0,01	15,3-306,1	0,1	13,3-265,5	0,1	1,11-22,1	0,01	■	1/4"	390	727
7338-1135	022062	6,8-135	0,1	69-1378	1	60-1195	1	5-99,5	0,1	■	3/8"	415	898
7312-1200	022078	10-200	0,1	102-2041	1	88-1770	1	7,4-147,5	0,1	■	1/2"	530	1333
7312-1340	022086	17-340	0,1	173-3469	1	150-3009	1	12,5-250,7	0,1	■	1/2"	650	1508

7300 B DIGITAL TORQUE WRENCHES WITH INTERCHANGEABLE HEADS



TECNICAL INFORMATION

ISO 6789, DIN 3122, EN 26789

- Digital torque wrench with reversible 52 teeth ratchet, for both clockwise and counterclockwise operation.
- Accuracy: $\pm 2\%$ (CW) / $\pm 3\%$ (CCW) from 20% to 100% of full scale.
- Two operation modes: Track (shows actual torque applied) and Peak (shows maximum reached torque).
- 4 Torque units: Nm, kg-cm, in-lb and ft-lb.
- Acoustic and green/red LED signal at preset torque value.
- Memory function with 9 preset torque values and 50 measurements.
- Battery life (continuous operation): 110 hrs.
- Operating temperature: $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$.
- Storage temperature: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$.
- Comfortable, non-slip grip handle.
- Humidity: Up to 90% non-condensing.
- Supplied with test certificate, batteries and storage case.
- Large program in various inserts.



ITEM NO.	5704196+	CAPACITY Nm	INCREMENTS Nm	CAPACITY kg-cm	INCREMENTS kg-cm	CAPACITY in-lb	INCREMENTS in-lb	CAPACITY ft-lb	INCREMENTS ft-lb	INSERT SIZE (WxHmm)	■	L mm	▲ G	
7314-2030	022215	1,5-30	0,01	15,3-306,1	0,1	13,3-265,5	0,1	1,11-22,1	0,01	12 x 9	■	1/4"	388	768
7338-2135	022222	6,8-135	0,1	69-1378	1	60-1195	1	5-99,5	0,1	12 x 9	■	3/8"	408	936
7312-2200	022239	10-200	0,1	102-2041	1	88-1770	1	7,4-147,5	0,1	18 x 14	■	1/2"	518	1385
7312-2340	022246	17-340	0,1	173-3469	1	150-3009	1	12,5-250,7	0,1	18 x 14	■	1/2"	638	1555

7400 DIGITAL TORQUE WRENCHES WITH ANGLE MEASUREMENT



TECNICAL INFORMATION

ISO 6789, DIN 3122, EN 26789

- Digital torque wrench with reversible 36 teeth ratchet, for both clockwise and counterclockwise operation.
- Perform torque and angle thightnings in a single-step operation.
- Accuracy: $\pm 2\%$ (CW) / $\pm 3\%$ (CCW) from 20% to 100% of full scale and $\pm 2\%$ for 90° rotation.
- Operation modes: Track (shows actual torque applied), Peak (shows maximum reached torque) and Angle.
- 5 measuring units: Nm, kg-cm, in-lb, ft-lb and angle.
- Acoustic and green/red LED signal at preset torque value.
- Memory function with 9 preset torque values and 50 measurements.
- Battery life (continuous operation): 110 hrs.
- Operating temperature: -10°C ~ 60°C.
- Storage temperature: -20°C ~ 70°C.
- Comfortable, non-slip grip handle.
- Humidity: Up to 90% non-condensing.
- Supplied with test certificate, batteries and storage case.



ITEM NO.	5704196+	CAPACITY Nm	INCREMENTS Nm	CAPACITY kg-cm	INCREMENTS kg-cm	CAPACITY in-lb	INCREMENTS in-lb	CAPACITY ft-lb	INCREMENTS ft-lb	■	L mm	⚖ G
7414-0030	022017	1,5-30	0,01	15,3-306,1	0,1	13,3-265,5	0,1	1,11-22,1	0,01	1/4"	390	729
7438-0135	022024	6,8-135	0,1	69-1378	1	60-1195	1	5-99,5	0,1	3/8"	415	901
7412-0200	022031	10-200	0,1	102-2041	1	88-1770	1	7,4-147,5	0,1	1/2"	530	1338
7412-0340	022048	17-340	0,1	173-3469	1	150-3009	1	12,5-250,7	0,1	1/2"	650	1509

7514 A DIGITAL SCREWDRIVER



TECHNICAL INFORMATION

ISO 6789, EN 26789

- Digital torque screwdriver with quick-release bit holder, for both clockwise and counterclockwise operation.
- Drivers accept all standard 1/4" hex screwdriver bits.
- Accuracy: $\pm 3\%$ (CW) / $\pm 4\%$ (CCW) from 20% to 100% of full scale.
- Two operation modes: Track (shows actual torque applied) and Peak (shows maximum reached torque).
- 3 Torque units: N-cm, kg-cm and in-lb.
- Acoustic and green/red LED signal at preset torque value.
- Memory function with 9 preset torque values and 50 measurements.
- Battery life (continuous operation): 55 hrs.
- Operating temperature: $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$.
- Storage temperature: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$.
- Comfortable, non-slip grip handle.
- Humidity: Up to 90% non-condensing.
- Supplied with test certificate, batteries and storage case.

ITEM NO.	5704196+	CAPACITY Nm	INCREMENTS Nm	CAPACITY kg-cm	INCREMENTS kg-cm	CAPACITY in-lb	INCREMENTS in-lb	BIT SIZE	L mm	G
7514-0050	022093	5.0-50	0,1	0,51-5,0	0,01	0,44-4,42	0,01	1/4"	193	142

7514 B/C DIGITAL SCREWDRIVERS



TECNICAL INFORMATION

ISO 6789, EN 26789

- Digital torque screwdriver with quick-release bit holder, for both clockwise and counterclockwise operation.
- Drivers accept all standard 1/4" hex screwdriver bits.
- Accuracy: $\pm 2.5\%$ (CW) / $\pm 3.5\%$ (CCW) from 20% to 100% of full scale.
- Two operation modes: Track (shows actual torque applied) and Peak (shows maximum reached torque).
- 3 Torque units: N-cm, kg-cm and in-lb.
- Acoustic and green/red LED signal at preset torque value.
- Memory function with 9 preset torque values and 50 measurements.
- Battery life (continuous operation): 55 hrs.
- Operating temperature: $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$.
- Storage temperature: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$.
- Comfortable, non-slip grip handle.
- Humidity: Up to 90% non-condensing.
- Supplied with test certificate, batteries and storage case.

ITEM NO.	5704196+	CAPACITY Nm	INCREMENTS Nm	CAPACITY kg-cm	INCREMENTS kg-cm	CAPACITY in-lb	INCREMENTS in-lb	BIT SIZE	L mm	G
7514-0200	022109	10-200	0,1	1,02-20,41	0,01	0,88-17,7	0,01	1/4"	203	179
7514-0400	022116	20-400	0,1	2,04-40,82	0,01	1,77-35,39	0,01	1/4"	203	179

7614 DIGITAL MINI TORQUE WRENCH - 1/4"



TECHNICAL INFORMATION

ISO 6789, EN 26789

- Digital torque wrench with 60 teeth reversible ratchet bit holder, for both clockwise and counterclockwise operation.
- Drivers accept all standard 1/4" hex screwdriver bits.
- Accuracy: $\pm 3\%$ (CW) / $\pm 4\%$ (CCW) from 20% to 100% of full scale.
- Two operation modes: Track (shows actual torque applied) and Peak (shows maximum reached torque).
- 4 Torque units: Nm, kg-cm, in-lb and ft-lb.
- Acoustic and green/red LED signal at preset torque value.
- Battery life (continuous operation): 55 hrs.
- Operating temperature: $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$.
- Storage temperature: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$.
- Comfortable, non-slip grip handle.
- Humidity: Up to 90% non-condensing.
- Supplied with test certificate, batteries and storage case



ITEM NO.	5704196+	CAPACITY Nm	INCREMENTS Nm	CAPACITY in-lb	INCREMENTS in-lb	CAPACITY ft-lb	INCREMENTS ft-lb	BIT SIZE	L mm	G
7614-0020	022123	1-20	0,01	10,2-204	0,1	0,74-14,75	0,01	1/4"	207	167

7690 1/4" BICYCLE TOOL KIT

- Avoid overload when working on bicycle frames.
- Ideal for every bike enthusiast as well as professionals.
- Tool set supplied in plastic storage case with digital torque wrench and bits.
- *For detailed technical information refer to item no. 7614*

CONTENT:

1 Digital torque wrench
7614 1-20 Nm - 1/4" bit driver

6 Bits for hex head screws
4514 1/4" H 2 - 2,5 - 3 - 4 - 5 - 6 mm

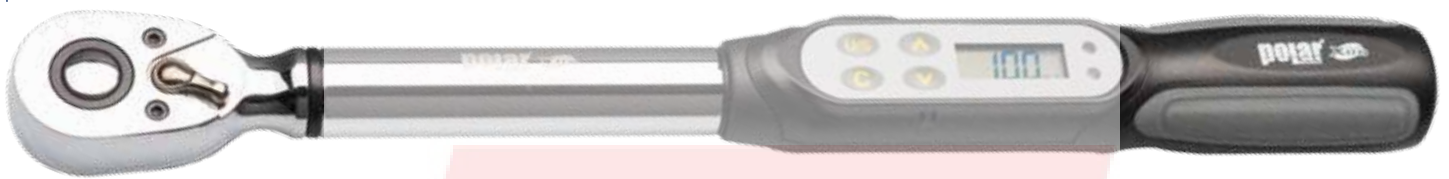
1 Bits for Torx® head screws
4514 1/4" TX T25

1 Bits for Phillips® screws
4514 1/4" PH2



ITEM NO.	5704196+	DIMENSIONS mm	G
7690-1409	022130	310x120x60 mm	618

7638 DIGITAL MINI TORQUE WRENCH - 3/8"



TECNICAL INFORMATION

ISO 6789, DIN 3122, EN 26789

- Digital torque wrench with reversible 60 teeth ratchet, for both clockwise and counterclockwise operation.
- Accuracy: $\pm 3\%$ (CW) / $\pm 4\%$ (CCW) from 20% to 100% of full scale.
- Two operation modes: Track (shows actual torque applied) and Peak (shows maximum reached torque).
- 4 Torque units: Nm, kg-cm, in-lb and ft-lb.
- Acoustic and green/red LED signal at preset torque value.
- Battery life (continuous operation): 55 hrs.
- Operating temperature: $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$.
- Storage temperature: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$.
- Comfortable, non-slip grip handle.
- Humidity: Up to 90% non-condensing.
- Supplied with test certificate, batteries and storage case.

ITEM NO.	5704196+	CAPACITY Nm	INCREMENTS Nm	CAPACITY kg-cm	INCREMENTS kg-cm	CAPACITY in-lb	INCREMENTS in-lb	CAPACITY ft-lb	INCREMENTS ft-lb	■	L mm	⚙️ G
7638-0085	022147	4,25-85	0,01	43,3-867	0,1	37,6-752	0,1	3,13-62,7	0,01	3/8"	239	387

7690 3/8" BICYCLE TOOL KIT

- Avoid overload when working on bicycle frames.
- Ideal for every bike enthusiast as well as professionals.
- Tool set supplied in plastic storage case with digital torque wrench and bits.
- *For detailed technical information refer to item no. 7638.*

CONTENT:

- 1 Digital Torque Wrench
7638 4.25-85 Nm - 3/8" Square
- 1 Screwdriver bit socket
4738 3/8"
- 8 6-point sockets
5038 3/8" 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 mm
- 6 Bits for hex head screws
4514 1/4" H 3 - 4 - 5 - 6 - 8 - 10 mm
- 3 Bits for Torx[®] head screws
4514 1/4" TX T25 - T30 - T40
- 1 Bits for Phillips[®] screws
4514 1/4" PH 2



ITEM NO.	5704196+	DIMENSIONS mm	G
7690-3820	022154	310x120x60 mm	1133

7700 DIGITAL TORQUE AND ANGLE ADAPTERS



TECNICAL INFORMATION

ISO-6789

- Digital torque and angle adapter, for both clockwise and counterclockwise operation.
- Perform torque and angle tightenings in a single-step operation, using any tightening tool.
- The adapter can be used for verifying any mechanical torque wrench accuracy.
- Accuracy: $\pm 3\%$ from 20% to 100% of full scale and $\pm 2\%$ for 90° rotation.
- Operation modes: Track (shows actual torque applied), Peak (shows maximum reached torque) and Angle.
- 5 measuring units: Nm, kg-cm, in-lb, ft-lb and angle.
- Acoustic and green/red LED signal at preset torque value.
- Memory function with 9 preset torque values and 50 measurements.
- Battery life (continuous operation): 110 hrs.
- Operating temperature: -10°C ~ 60°C.
- Storage temperature: -20°C ~ 70°C.
- Humidity: Up to 90% non-condensing.
- Supplied with test certificate, batteries and storage case.



ITEM NO.	5704196+	CAPACITY Nm	INCREMENTS Nm	CAPACITY kg-cm	INCREMENTS kg-cm	CAPACITY in-lb	INCREMENTS in-lb	CAPACITY ft-lb	INCREMENTS ft-lb	Ø	L mm	G
7714-0030	022178	1,5-30	0,01	15,3-306,1	0,1	13,3-265,5	0,1	1,11-22,1	0,01	1/4"	86x85x60	163
7738-0135	022185	6,8-135	0,1	69-1378	1	60-1195	1	5-99,5	0,1	3/8"	85x85x75	216
7712-0200	022192	10-200	0,1	120-2041	1	88-1770	1	7,4-147,5	0,1	1/2"	85x85x80	240
7712-0340	022208	17-340	0,1	173-3469	1	150-3009	1	12,5-250,7	0,1	1/2"	85x85x80	240

7700 A **DIGITAL ANGLE METER WITH MAGNET**



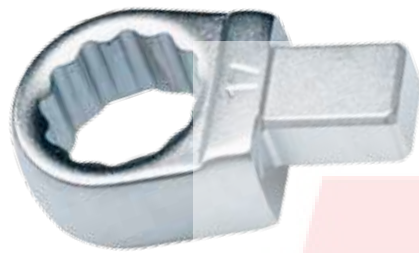
TECNICAL INFORMATION

- Digital angle meter for both clockwise and counter-clockwise operation.
- Built-in magnet for easily fastening to any tightening tool.
- Accuracy: $\pm 2\%$ for 90° rotation.
- Acoustic and green/red LED signal at preset angle value.
- Memory function with 9 preset angle values and 50 measurements.
- Battery life (continuous operation): 24 hrs.
- Operating temperature: $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$.
- Storage temperature: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$.
- Humidity: Up to 90% non-condensing.
- Supplied with test certificate, batteries and storage case.



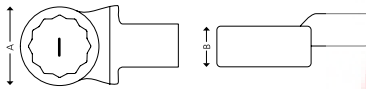
ITEM NO.	5704196+	SCALE	INCREMENTS	RESOLUTION	DISPLAY RANGE	SIZE MM	G
7700-0001	022161	1:360°	1°	0,1°	1-999°	58x58x41	72

7801 BOX END METRIC INSERTS



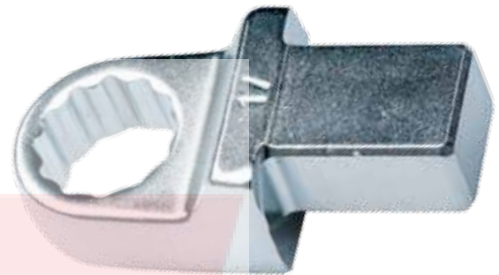
TECNICAL INFORMATION

- 9 x 12 mm
- Surface: Chrome plated finish.
- Material: Chrome-vanadium steel



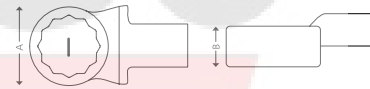
ITEM NO.	5704196+	SIZE mm	A MM	B MM	G
7801-0007	022413	7	20	8	39
7801-0008	022420	8	20	8	39
7801-0010	022437	10	20	8	41
7801-0011	022444	11	20	8	43
7801-0012	022451	12	22	12	53
7801-0013	022468	13	22	12	51
7801-0014	022475	14	24	12	55
7801-0015	022482	15	25	13	56
7801-0016	022499	16	27	13	58
7801-0017	022505	17	28	13	60
7801-0018	022512	18	29	13	61
7801-0019	022529	19	31	13	65
7801-0021	022536	21	34	15	71
7801-0022	022543	22	35	15	72

7803 BOX END METRIC INSERTS



TECNICAL INFORMATION

- 14 x 18 mm
- Surface: Chrome plated finish.
- Material: Chrome-vanadium steel



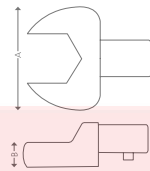
ITEM NO.	5704196+	SIZE mm	A MM	B MM	G
7803-0013	022727	13	30	12	129
7803-0014	022734	14	30	12	129
7803-0015	022741	15	30	12	129
7803-0016	022758	16	31	12	130
7803-0017	022765	17	31	13	134
7803-0018	022772	18	31	13	139
7803-0019	022789	19	31	12	140
7803-0021	022796	21	33	15	152
7803-0022	022802	22	35	15	156
7803-0024	022819	24	38	15	156
7803-0027	022826	27	41	18	200
7803-0030	022833	30	45	18	204
7803-0032	022840	32	48	18	202
7803-0034	022857	34	51	19	223
7803-0036	022864	36	53	19	218
7803-0041	022871	41	60	19	228

7800 OPEN END METRIC INSERTS



TECNICAL INFORMATION

- 9 x 12 mm
- Surface: Chrome plated finish.
- Material: Chrome-vanadium steel



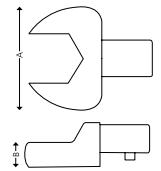
ITEM NO.	5704196+	SIZE mm	A MM	B MM	G
7800-0007	022284	7	21	6	39
7800-0008	022291	8	22	6	39
7800-0009	022307	9	23	6	39
7800-0010	022314	10	25	6	41
7800-0011	022321	11	26	6	43
7800-0012	022338	12	28	6	39
7800-0013	022345	13	29	6	44
7800-0014	022352	14	31	8	54
7800-0015	022369	15	33	8	58
7800-0016	022376	16	36	8	61
7800-0017	022383	17	38	8	59
7800-0018	022390	18	39	8	64
7800-0019	022406	19	42	8	64

7802 OPEN END METRIC INSERTS



TECNICAL INFORMATION

- 14 x 18 mm
- Surface: Chrome plated finish.
- Material: Chrome-vanadium steel



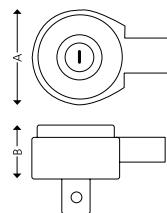
ITEM NO.	5704196+	SIZE mm	A MM	B MM	G
7802-0013	022550	13	30	7	116
7802-0014	022567	14	32	7	119
7802-0015	022574	15	34	7	116
7802-0016	022581	16	36	7	127
7802-0017	022598	17	37	9	139
7802-0018	022604	18	39	9	137
7802-0019	022611	19	41	9	139
7802-0021	022628	21	45	12	158
7802-0022	022635	22	47	12	163
7802-0024	022642	24	51	12	170
7802-0027	022659	27	59	14	233
7802-0030	022666	30	63	14	245
7802-0032	022673	32	65	14	245
7802-0034	022680	34	66	14	246
7802-0036	022697	36	67	14	239
7802-0038	022703	38	66	14	224
7802-0041	022710	41	82	14	319

7800 RATCHET INSERTS



TECNICAL INFORMATION

- Reversible model with 52 teeth.
- Surface: Chrome plated finish.
- Material: Chrome-vanadium steel



ITEM NO.	5704196+	INSERT SIZE (W X H mm)	MAX. TORQUE Nm	A MM	B MM	G
7814-0912	022253	1/4" 12x9	30	25	17	69
7838-0912	022260	3/8" 12x9	135	35	23	143
7812-1418	022277	1/2" 18x14	340	43	29	316