05

ELORA, 5 letters that represent us:
E and **RA** stand for **E**rich **Ra**uch, founder of ELORA. **LO** for **Lü**ttringhausen.
Since Ü cannot be translated into English, Erich Rauch decided in 1924 on **ELORA**.

Why is controlled fastener tightening important?

Anyone involved in modern engineering will already know how important controlled tightening is. To ensure safe, dependable threaded joints, clearly defined tightening forces are essential, irrespective of whether the forces to be applied are large or small (such as is the case with light-weight materials with a low yield point).

The decision on the correct tightening force is subject to a number of factors. These include the fastener's thread pitch, the friction in the thread and the material under the nut or screw head. Once all the relevant factors have been taken into account, this results in the required tightening force that will ensure the bolted joint will not become loose even under dynamic loading. By the same token, this tightening force must not be too high as this can also cause the bolted joint to fail.

What exactly is torque?

Torque is a physical quantity in mechanics. The international unit of measure for moment of force, or torque, is the newton metre, Nm.
Torque is defined as a force acting perpendicular to a moment arm.

$$M = F \times r$$

A torque wrench is constructed in such a way that it is operated by applying force to the handle. If the lever ratio is changed in any way, this will result in incorrect torque values – a key issue that is referred to in the documentation for all ELORA torque wrenches.

Screw tightening using torque and tightening angle

In many cases, it is sufficient to tighten a bolt or screw to a certain defined torque. To ensure the application of accurate, defined tightening forces, special expanding screws are used. Screws of this type may only be used once. In the first stage, they are tightened to a defined torque and then a specified tightening angle is applied to tighten the screw beyond the elastic limit of the bolt.
This enables a much more accurate tightening force to be achieved.

In addition to an ELORA torque wrench, angle controlled tightening requires a mechanical angle measuring instrument (ELORA no. 2184...).

Conformity Test and Calibration

The DIN EN ISO 6789:2017 has been divided into 2 parts. Part 1 determines requirements for construction and manufacturing, including contents of the declaration of conformity.
Part 2, above all, determines the requirements for traceable calibration certificates and includes a procedure to calculate measurement uncertainties.
The ELORA Torque Wrench Calibration Laboratory is covering both parts. Each torque wrench will be delivered with a declaration of conformance, because for most users, this is absolutely sufficient.
In case of not being differently mentioned within inspection equipment monitoring, the DIN EN 6789:2017 specifies a working life of 12 months or 5000 load changes being the interval for conformity test or calibration. The interval starts with the first use of the torque tool.

2179-...

TORQUE WRENCH, WITH VERNIER SCALE

Product features
- Broad range of applications
- High degree of availability
- Highly economical
- Very service-friendly
- Complies with DIN EN ISO 6789:2017

10 | 12,5

3/8" | 1/2"

- for controlled torque application from 10 – 335 Nm
- main unit Nm with Nonius, secondary unit ft.lb.
- safe locking of the adjusted torque value by securing button at the handle end
- ELORA-No. 2179-S: exchanging the locking knob through the safety cap, the torque can be fixed tamper-resistant
- for clockwise fixing
- with robust, matt steel tube
- fine tooth ratchet, smallest possible swivel angle 8°
- very noticeable and hearable (''click'') signal
- nonslip QUATROLIT®-2C-handle
- according to EN ISO 6789:2017 Part 1, Typ II Class A
- with traceable declaration of conformance
- tripping accuracy +-3%

2179-S safety cap

Code	Number	■	Head	Measuring range Nm	Graduation Nm	Measuring range ft.lb.	Graduation ft.lb.	l/mm	Pieces	Weight/g
2179000601000	2179-60	3/8"	Reversible ratchet	10-60	0,25	9-45	4	390	1	1250
2179001251000	2179-125	1/2"	Reversible ratchet	25-125	0,25	20-90	5	440	1	1230
2179002001000	2179-200	1/2"	Reversible ratchet	40-200	0,5	30-150	10	460	1	1366
2179003351000	2179-335	1/2"	Reversible ratchet	65-335	0,75	50-250	10	525	1	1465
2179000001000	2179-S	Safety cap for model 2179 I 2070 I 2080 I 2034							1	10

High availability and economy

ELORA has succeeded in achieving the ambitious objective of increasing the periods of effective use between readjustments to considerably more than 5000 "clicks" with no errors or loss in accuracy. Extensive long-term tests have demonstrated convincingly that the torque wrenches managed 8000 "clicks" with no problems.

ELORA – Declaration of Conformity

Each hand operated torque tool leaves our works with a declaration of conformance according to DIN EN ISO 6789:2017 Part 1.
ELORA services and controls your torque wrenches quickly and cost-saving. On demand also according to DIN EN ISO 6789:2017 part 2.

Wide range of applications

The torque wrench must work accurately even when subjected to extreme fluctuations in temperature and in environments in which dust and moisture are commonly encountered. This is why ELORA torque wrenches are intensively tested under all conceivable operating conditions at ELORA's own calibration laboratory.
The ELORA torque wrenches have all passed the tests with flying colours.

A particularly important feature is the temperature from -15 to +40°C. The design of the tool, the torquing mechanism and the choice of components and materials are further evidence of ELORA's innovative approach to professional products enabling efficient working.

This is how you can fix the torque tamper-resistant

Adjust release torque

Fix with locking knob

Untwist locking knob

Tamper-resistant closing by safety cap

No nondestructive removal of the safety cap

2185-...

TORQUE WRENCH 1/2“

- for controlled torque application from 20 - 350 Nm / 15 - 250 ft.-lb.
- dual measurement scale for Nm and ft.lb.
- scale slider and window with magnifier for quick setting of the target torque value
- locking screw for safe locking of the set torque value
- for clockwise fixing
- with robust, matt steel tube
- all models with fine tooth, reversible ratchet
- very noticeable and audible (“click“) signal
- according to DIN EN ISO 6789:2017 Part 1, Typ II Class A
- with traceable declaration of conformance
- tripping accuracy +- 4%

12,5

1/2"

Code	Number	■	Head	Measuring range Nm	Measuring range ft.lb.	l/mm	Pieces	Weight/g
2185001002000	2185-100	1/2“	Reversible ratchet	20-100	15-80	450	1	1473
2185002002000	2185-200	1/2“	Reversible ratchet	40-200	30-150	450	1	1432
2185003502000	2185-350	1/2“	Reversible ratchet	60-350	42-250	590	1	1705

2130 - 2160

TORQUE WRENCH

- for controlled torque application from 2,5 - 2000 Nm
- quad measurement scale for Nm, kgm, in-lb and ft-lb
- click type torque wrench with very noticeable and audible (‚click“) signal
- bi-directional fixing by turning the torque wrench
- extra solid, matt-chrome plated steel construction
- adjustable and safe lockable by crank and the top end of the handle
- according to DIN EN ISO 6789:2017 Part 1, Typ II Class A
- with traceable declaration of conformance
- tripping accuracy +- 4%

10 | 12,5 | 20 | 25

3/8" | 1/2" | 3/4" | 1"

Code	Number	■	Measuring range Nm	Gradu-tion Nm	Measuring range kgm	Gradu-tion kgm	Measuring range in.lb.	Gradu-tion in.lb.	Measuring range ft.lb.	Gradu-tion ft.lb.	l/mm	Pieces	Weight/g
2130000112000	2130-11	3/8“	2,5-11	0,5	0,3-1,2	0,2	20-100	10	2-8	1	338	1	672
2130000332000	2130-33	3/8“	7-33	1	0,7-3,4	0,1	60-300	10	5-24	1	425	1	1000
2130000682000	2130-68	3/8“	14-68	2	1,2-7	0,2	100-600	20	10-50	2	500	1	1000
2140000682000	2140-68	1/2“	14-68	2	1,4-7	0,2	125-600	20	10-50	2	500	1	1114
2140001352000	2140-135	1/2“	30-135	5	3-14	1	250-1200	50	40-160	2	556	1	1974
2140002252000	2140-225	1/2“	50-225	10	5-23	1	400-2000	50	40-160	5	600	1	2000
2140003302000	2140-330	1/2“	70-330	10	7-35	1	600-3000	100	50-250	10	805	1	3850
2150008102000	2150-810	3/4“	200-800	20	22-82	2	1800-7200	200	140-600	20	1070	1	9000
2160009402000	2160-940	1“	200-1000	20	22-100	2	1800-8850	200	140-740	20	1400	1	13800
2160020002000	2160-2000	1“	500-2000	50	50-200	5	4500-17500	500	350-1500	50	1410	1	18000

You will find VDE Torque Wrenches on page 321.

2070-...

TORQUE WRENCH 3/4“ WITH VERNIER SCALE

- for controlled torque application from 100 - 1000 Nm
- main measurement unit for Nm with vernier scale, auxiliarymeasurement unit for ft.-lb.
- Safe locking of the adjusted torque value by securing button at the handle end
- ELORA-No. 2179-S: exchanging the locking knob through the safety cap, the torque can be fixed tamper-resistant
- bi-directional fixing by turning the torque wrench
- push through ratchet 3/4'' with smallest swivel angle 6°
- with robust, matt steel tube
- with very noticeable and audible (''click'') signal
- nonslip QUATROLIT®-2C-handle
- according to EN ISO 6789:2017 Part 1, Typ II Class A
- with traceable declaration of conformance
- tripping accuracy +- 4%

20

3/4"

2179-S safety cap

Code	Number	■	Head	Measuring range Nm	Graduation Nm	Measuring range ft.lb.	Graduation ft.lb.	l/mm	Pieces	Weight/g
2070005001000	2070-500	3/4“	Push through ratchet	100-500	25	80-400	1,25	910	1	3600
2070008001000	2070-800	3/4“	Push through ratchet	160-800	40	120-600	2	1220	1	4550
2070010001000	2070-1000	3/4“	Push through ratchet	200-1000	50	150-750	2,5	1230	1	4550
2179000001000	2179-S	Safety cap for model 2179 I 2070 I 2080 I 2034							1	10

2080-2100

TORQUE WRENCH 1“ WITH VERNIER SCALE

- for controlled torque application from 400 - 2100 Nm
- main measurement unit for Nm with vernier scale, auxiliary measurement unit for ft.-lb.
- Safe locking of the adjusted torque value by securing button at the handle end
- ELORA-No. 2179-S: exchanging the locking knob through the safety cap, the torque can be fixed tamper-resistant
- for bi-directional fixing by turning the torque wrench
- reversible ratchet 1'' with smallest swivel angle 6°
- with very noticeable and audible (''click'') signal
- Extension Bar with nonslip QUATROLIT®-2C-handle
- according to EN ISO 6789:2017 Part 1, Typ II Class A
- with traceable declaration of conformance
- tripping accuracy +- 4%

25

1"

2179-S safety cap

Code	Number	■	Head	Measuring range Nm	Graduation Nm	Measuring range ft.lb.	Graduation ft.lb.	l/mm	Pieces	Weight/g
2080021001000	2080-2100	1“	Reversible ratchet	400-2100	100	300-1500	5	1945	1	10750
2179000001000	2179-S	Safety cap for model 2179 I 2070 I 2080 I 2034							1	10

2178-20

TORQUE RATCHET, 1/4“ WITH VERNIER SCALE

- for controlled torque application from 4 - 20 Nm
- main unit Nm, secondary unit ft.lb, both with Nonius
- safe locking of the set torque value
- for clockwise fixing
- with robust, matt-chrome plated steel tube
- reversible ratchet
- very noticeable and audible (‘‘click‘‘) signal
- according to DIN EN ISO 6789:2017 Part 1, Typ II Class A
- Classified according to DIN EN ISO 6789: 2003 Type II Class A
- with traceable declaration of conformance
- Tripping accuracy +- 4%

6,3

1/4"

Code	Number	■	Measuring range Nm	Graduation Nm	Measuring range ft.lb.	Graduation ft.lb.	l/mm	Pieces	Weight/g
2178000201000	2178-20	1/4“	4-20	0,1	3,3-14,4	0,07	320	1	900

2011-1000

TORQUE SCREWDRIVER, 1/4“ WITH VERNIER SCALE

- for controlled torque application from 2 - 10 Nm
- a disengaging coupler indicates the achievement of the release moment and prevents overtightening of the screw
- ¼“ internal hexagon socket for ¼“ bits according to DIN 3126-C 6,3
- bi-directional tightening
- safe locking of the adjusted torque value by securing button at the handle end
- ¼“ square socket at the end of the screwdriver ensuring support of power transmission
- according to EN ISO 6789:2017 Part 1, Typ II Class D
- with traceable declaration of conformance
- tripping accuracy +- 6% from the set value

6,3

1/4"

Code	Number	Measuring range Nm	Graduation Nm	l/mm	Pieces	Weight/g
2011010001000	2011-1000	2-10	0,2	160	1	330

2033-20

TORQUE WRENCH WITH RECTANGULAR INTAKE

- for use with ELORA interchangeable spanner heads
- main measurement unit for Nm with vernier scale, secondary measurement unit for ft-lb
- safe locking of the set torque value
- bi-directional fixing by turning the torque wrench
- with robust, matt steel tube
- with very noticeable and audible (‚click'') signal
- nonslip QUATROLIT®-2C-handle
- factory depth gauges: S_s = 17,5 mm (9 x 12 mm) and S_s = 25 mm (14 x 18 mm)
- according to DIN EN ISO 6789:2017 Part 1, Typ II Class A
- with traceable declaration of conformance
- tripping accuracy +- 4%

Code	Number	Drive mm	l_s mm	Measuring range Nm	Graduation Nm	Measuring range in.lb.	Graduation in.lb.	l/mm	Pieces	Weight/g
2033000201000	2033-20	9x12	282,5	4-20	0,1	39,8-172,6	0,9	315	1	595

2034-...

TORQUE WRENCH WITH RECTANGULAR INTAKE

- for use with ELORA interchangeable spanner heads
- main measurement unit for Nm with vernier scale, secondary measurement unit for ft.-lb.
- safe locking of the adjusted torque value by securing button at the handle end
- ELORA-No. 2179-S: exchanging the locking knob through the safety cap, the torque can be fixed tamper-resistant
- for clockwise and anti-clockwise tightening by turning the torque wrench
- with robust, matt steel tube
- with very noticeable and audible (‚click'') signal
- nonslip QUATROLIT®-2C-handle
- factory depth gauges: S_s = 17,5 mm (9 x 12 mm) and S_s = 25 mm (14 x 18 mm)
- according to DIN EN ISO 6789:2017 Part 1, Typ II Class A
- with traceable declaration of conformance
- tripping accuracy +- 4%

Code	Number	Drive mm	l_s mm	Measuring range Nm	Graduation Nm	Measuring range ft.lb.	Graduation ft.lb.	l/mm	Pieces	Weight/g
2034000601000	2034-60	9x12	314,5	10-60	0,25	9-45	4	345	1	1000
2034001251000	2034-125	9x12	370,5	25-125	0,25	20-90	5	438	1	900
2034002001000	2034-200	14x18	410,0	40-200	0,5	30-150	10	455	1	1198
2034003351000	2034-335	14x18	470,0	65-335	0,75	50-250	10	515	1	1305

Expert knowledge on insert tools

When using insert tools, it is essential to take into account the stated extension.
If the extension for the insert tool to be used is exactly the same as the work calibration extension (S_s = 17.5 mm for 9 x 12 mm mounts and S_s = 25 mm for 14 x 18 mm mounts) of the torque wrench, the torque level you have set will be correct.

Where insert tools having a different extension value are to be used, the set torque M_I will have to be calculated to ensure that the required target torque (M_S) is, in fact, achieved.

This can be done using the following formula:

$$\frac{M_S \times l_S}{l_S + S_V - S_S} = M_I$$

Where:

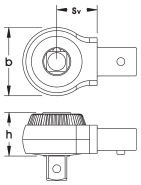
M_S	target torque
l_S	lever length of the torque wrench + works calibration extension
S_V	extension of the insert tool
S_S	works calibration extension (S_S = 17.5 mm for 9 x 12 mm mounts and S_S =25 mm for 14 x 18 mm mounts)
M_I	torque setting on the wrench

2072-..., 2076-1

RATCHET INSERT TOOL, FINE TOOTH

- with small robust head
- forged, fine tooth gear wheel with handy metal switching disc
- 5° smallest swivel angle
- with locking pin
- chrome vanadium 31CrV3 / 1.2208
- male square according to DIN 3120, ISO 1174, with ball locking device

6,3	10	12,5
1/4"	3/8"	1/2"



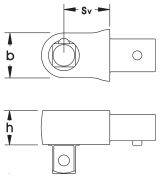
Code	Number	■	Drive mm	S_V mm	b mm	h mm	Pieces	Weight/g
2072000010000	2072-1	1/4"	9x12	17,5	25	16	1	80
2072000020000	2072-2	3/8"	9x12	17,5	34	22	1	160
2072000030000	2072-3	1/2"	9x12	17,5	34	23	1	170
2076000010000	2076-1	1/2"	14x18	25	41	30	1	339

2074-..., 2078-1

FIXED SQUARE INSERT TOOL

- forged with locking pin
- chrome-plated
- chrome vanadium 31CrV3 / 1.2208
- male square according to DIN 3120, ISO 1174, with ball locking device

6,3	10	12,5
1/4"	3/8"	1/2"

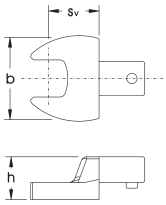


Code	Number	■	Drive mm	S_V mm	b mm	h mm	Pieces	Weight/g
2074000010000	2074-1	1/4"	9x12	17,5	13	12	1	50
2074000020000	2074-2	3/8"	9x12	17,5	19	16	1	89
2074000030000	2074-3	1/2"	9x12	17,5	19	16	1	115
2078000010000	2078-1	1/2"	14x18	25	25	19	1	206

2052-..., 2056-...

OPEN END SPANNER INSERT TOOL

- attention, changes setting value for ELORA-Nr. 2052-14 -19 and 2056-27 - 41
- forged
- with locking pin
- chrome-plated
- chrome vanadium 31CrV3 / 1.2208

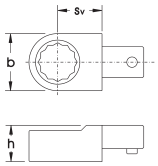


Code	Number	mm	Drive mm	S_v mm	b mm	h mm	Pieces	Weight/g
2052000070000	2052-7	7	9x12	17,5	20,7	14,7	1	46
2052000080000	2052-8	8	9x12	17,5	22	14,7	1	47
2052000090000	2052-9	9	9x12	17,5	23,5	14,7	1	45
2052000100000	2052-10	10	9x12	17,5	24,8	14,7	1	49
2052000110000	2052-11	11	9x12	17,5	26	14,7	1	52
2052000120000	2052-12	12	9x12	17,5	27,5	14,7	1	47
2052000130000	2052-13	13	9x12	17,5	28,8	14,7	1	53
2052000140000	2052-14	14	9x12	20	31,5	14,7	1	64
2052000150000	2052-15	15	9x12	20	33,5	14,7	1	65
2052000160000	2052-16	16	9x12	20	36	14,7	1	71
2052000170000	2052-17	17	9x12	20	37,7	14,7	1	69
2052000180000	2052-18	18	9x12	20	39	14,7	1	70
2052000190000	2052-19	19	9x12	20	41,6	14,7	1	74
2056000130000	2056-13	13	14x18	25	29,6	21,5	1	128
2056000140000	2056-14	14	14x18	25	31,3	21,5	1	125
2056000150000	2056-15	15	14x18	25	33,4	21,5	1	126
2056000160000	2056-16	16	14x18	25	35,8	21,5	1	135
2056000170000	2056-17	17	14x18	25	37	21,5	1	146
2056000180000	2056-18	18	14x18	25	38,6	21,5	1	144
2056000190000	2056-19	19	14x18	25	40,6	21,5	1	147
2056000210000	2056-21	21	14x18	25	45,2	21,5	1	162
2056000220000	2056-22	22	14x18	25	47,3	21,5	1	170
2056000240000	2056-24	24	14x18	25	50,8	21,5	1	187
2056000270000	2056-27	27	14x18	32,5	58,7	21,5	1	252
2056000300000	2056-30	30	14x18	32,5	62,7	21,5	1	266
2056000320000	2056-32	32	14x18	32,5	65,2	21,5	1	265
2056000340000	2056-34	34	14x18	32,5	66,5	21,5	1	252
2056000360000	2056-36	36	14x18	32,5	66,5	21,5	1	255
2056000380000	2056-38	38	14x18	32,5	66,5	21,5	1	244
2056000410000	2056-41	41	14x18	40	82,5	21,5	1	333

2062-..., 2066-...

RING SPANNER INSERT TOOL

- attention, changes setting value for ELORA-Nr. 2066-27 to 41
- forged
- with locking pin
- chrome-plated
- chrome vanadium 31CrV3 / 1.2208



Code	Number	mm	Drive mm	S_v mm	b mm	h mm	Pieces	Weight/g
2062000070000	2062-7	7	9x12	17,5	13,1	14,7	1	48
2062000080000	2062-8	8	9x12	17,5	13,1	14,7	1	47
2062000100000	2062-10	10	9x12	17,5	17,6	14,7	1	51
2062000110000	2062-11	11	9x12	17,5	19	14,7	1	51
2062000120000	2062-12	12	9x12	17,5	20,3	14,7	1	61
2062000130000	2062-13	13	9x12	17,5	21,1	14,7	1	61
2062000140000	2062-14	14	9x12	17,5	23,4	14,7	1	64
2062000150000	2062-15	15	9x12	17,5	24,4	14,7	1	65
2062000160000	2062-16	16	9x12	17,5	26,4	14,7	1	68
2062000170000	2062-17	17	9x12	17,5	27,4	14,7	1	69
2062000180000	2062-18	18	9x12	17,5	28,9	14,7	1	71
2062000190000	2062-19	19	9x12	17,5	31	14,7	1	74
2062000210000	2062-21	21	9x12	17,5	33,4	14,7	1	81
2062000220000	2062-22	22	9x12	17,5	35	14,7	1	82
2066000130000	2066-13	13	14x18	25	21	21,5	1	135
2066000140000	2066-14	14	14x18	25	23	21,5	1	138
2066000150000	2066-15	15	14x18	25	26	21,5	1	138
2066000160000	2066-16	16	14x18	25	26	21,5	1	139
2066000170000	2066-17	17	14x18	25	27,5	21,5	1	144
2066000180000	2066-18	18	14x18	25	29,5	21,5	1	146
2066000190000	2066-19	19	14x18	25	31	21,5	1	150
2066000210000	2066-21	21	14x18	25	33	21,5	1	160
2066000220000	2066-22	22	14x18	25	35	21,5	1	155
2066000240000	2066-24	24	14x18	25	38	21,5	1	170
2066000270000	2066-27	27	14x18	31	42	21,5	1	217
2066000300000	2066-30	30	14x18	31	45,1	21,5	1	221
2066000320000	2066-32	32	14x18	31	48	21,5	1	224
2066000340000	2066-34	34	14x18	31	51	21,5	1	255
2066000360000	2066-36	36	14x18	31	53	21,5	1	248
2066000410000	2066-41	41	14x18	31	59,3	21,5	1	255

2063-...

OPEN RING SPANNER INSERT TOOL

- forged
- with locking pin
- chrome-plated
- chrome vanadium 31CrV3 / 1.2208

Code	Number	mm	Drive mm	S_v mm	b mm	h mm	Pieces	Weight/g
2063000100000	2063-10	10	9x12	17,5	21,2	14,5	1	63
2063000110000	2063-11	11	9x12	17,5	22,6	14,5	1	63
2063000120000	2063-12	12	9x12	17,5	24,1	14,5	1	65
2063000130000	2063-13	13	9x12	17,5	25,2	14,5	1	64
2063000140000	2063-14	14	9x12	17,5	27,3	14,5	1	68
2063000160000	2063-16	16	9x12	17,5	30,1	14,5	1	71
2063000170000	2063-17	17	9x12	17,5	31,6	14,5	1	73
2063000180000	2063-18	18	9x12	17,5	33,3	15	1	78
2063000190000	2063-19	19	9x12	17,5	34,6	15	1	80
2063000210000	2063-21	21	9x12	17,5	37,7	15	1	81
2063000220000	2063-22	22	9x12	17,5	39,3	15	1	86

2071-...

ADAPTER

- attention, changes setting value
- for use with insert tools 9x12 mm and 14x8 mm
- forged
- chrome-plated
- chrome vanadium 31CrV3 / 1.2208

Code	Number	Female Square mm	Male Square	S_v mm	b mm	h mm	Pieces	Weight/g
2071000010000	2071-1	9x12	14x18	22	22	17	1	94
2071000020000	2071-2	14x18	9x12	35,25	30	23	1	127

2034-200 S13M

TORQUE WRENCH SET

- 13 pcs.
- in black plastic case with foamed inlay

Code	Number	Contents	Pieces	Weight/g
2034501301200	2034-200 S13M	2034-200 Torque Wrench with Rectangular Intake 2076-1 Ratchet Insert Tool, fine tooth 1/2" 14x18 2056- Open End Spanner Insert Tool 13, 14, 16, 17, 18, 19, 22, 24, 27, 30, 32 mm Open End Spanner Insert Tool 14x18	1	3500

2420-...

ELOTRONIC TORQUE WRENCH

- indicating torque wrench for controlled tightening from 20 - 340 Nm
- measurement units: Nm, ft-lb or in-lb
- bi-directional fixing
- huge easy to read 4 digit numerical LCD Display
- audible buzzer and optical signal (3 bright LED´s)when target torque is reached
- 2 different measurement modes (Track Mode, Peak Hold)
- Battery operated (4xAA batteries)

12,5

1/2"

- serial computer interface, 2 way communication with computer, printer (protocol RS232C 9600BPS, 8,1,n)
- fine tooth ratchet, smallest possible swivel angle 5°
- male square according to DIN 3120 A 12,5, ISO 1174, with ball locking device
- with robust, matt steel tube with plastic handle
- according to EN ISO 6789:2017 Part 1, Typ I Class B
- with traceable declaration of conformance
- Display deviation +- 2%

Code	Number	■	Measuring range Nm	Measuring range in.lb.	Measuring range ft.lb.	l/mm	Pieces	Weight/g
2420002002000	2420-EDS200	1/2“	20-200	180-1800	15-150	458	1	1260
2420003402000	2420-EDS340	1/2“	34-340	300-3000	25-250	559	1	1550
2420500602000	2420-RS	Contents: 4 rechargeable batteries, cable for serial port RS 232, power supply					1	500

2400-...

ELOMETER TORQUE WRENCH WITH DRAG INDICATOR

- indicating torque wrench with dial gauge and drag indicator
- for controlled tightening from 0,7 - 2800 Nm
- measurement units: Nm, ft.-lb. or in.-lb.
- bi-directional fixing
- with fixed head square according to DIN 3120, ISO 1174
- ELORA No. 2400 UDS 1400 and 2400-UDS 2800 with additional audible buzzer
- in dependence EN ISO 6789:2017 part 1, type I class B
- with traceable declaration of conformance
- Display deviation +- 3%

2400-UDS2800

6,3 | 10 | 12,5

1/4" | 3/8" | 1/2"

20 | 25

3/4" | 1"

Code	Number	■	Measuring range Nm	Gradua-tion Nm	Measuring range in.lb.	Gradua-tion in.lb.	Measuring range ft.lb.	Gradua-tion ft.lb.	Signal	l/mm	Pieces	Weight/g
2400000032000	2400-UDS3	1/4“	0,7-3,5	0,1	6-30	0,5	-	-	-	270	1	725
2400000092000	2400-UDS9	1/4“	1,8-9	0,2	15-75	1	-	-	-	270	1	725
2400000182000	2400-UDS18	3/8“	4-18	0,5	30-150	2	-	-	-	270	1	725
2400000302000	2400-UDS30	3/8“	6-30	0,5	50-250	5	-	-	-	270	1	725
2400000702000	2400-UDS70	3/8“	14-70	2	-	-	10-50	1	-	270	1	725
2400002402000	2400-UDS240	1/2“	50-250	5	-	-	35-175	5	-	560	1	1400
2400003502000	2400-UDS350	1/2“	70-350	10	-	-	50-250	5	-	560	1	1400
2400004802000	2400-UDS480	3/4“	100-480	10	-	-	70-350	10	-	675	1	3200
2400008002000	2400-UDS800	3/4“	160-800	20	-	-	120-600	10	-	1180	1	4500
2400014002000	2400-UDS1400	1“	300-1400	25	-	-	200-1000	20	optical and audible	1970	1	9000
2400028002000	2400-UDS2800	1“	600-2800	50	-	-	400-2000	40	optical and audible	3200	1	21000

2184-...

TORQUE ANGLE GAUGE

- for controlled screw tightening with fitting torque wrench at specified torque and torque angle
- torque angle from 0 – 360°
- ½" reading accuracy 2 degrees, ¾" reading accuracy 5 degrees
- maximum load 1/2'' 390 Nm, 3/4'' 1330 Nm
- with flexible magnetic holder
- square with ball locking device
- **attention, do not exceed the maximum torque of the specific torque wrench!**

12,5 | 20

1/2" | 3/4"

Code	Number	○	■	Graduation	Ø	l/mm	Pieces	Weight/g
2184000012000	2184-1	1/2"	1/2"	2°	68	360	1	333
2184000022000	2184-2	3/4"	3/4"	5°	90	380	1	865

2601-...

TORQUE MULTIPLIER

- up to 10.000 Nm
- planetary gear (1-, 2- or 3-stepped)
- specially hardened gear wheels
- permanent internal greasing
- sliding bearings on drive side and power take-off side
- overload protection (one additional sun wheel with overload cutout is included)
- exchangeable drive heads
- matt chrome-plated /phosphated surfaces
- torque multipliers 2601-3 until 2601-6 are all fitted with a return stop
- bi-directional actuation
- highest torque, high accuracy better than +-5% tolerance
- **attention, only for mechanical actuation!**
- in waterproof case

Product-Features:

- for clockwise and anticlockwise use
- no extremely long levers required any more
- uniform transmission of forces protects nuts and bolts
- reduced risk of personal injury
- compact, durable construction
- low weight
- no external power supply required
- guaranteed accuracy: ±5%
- long-term accuracy
- low-maintenance construction
- good value for money
- ideal in conjunction ELORA torque wrenches
- a range of supports available

Code	Number	max. output capacitance Nm	max. input capacitance Nm	▢	■	Torque Ratio	Gear reduction	Return stop	Ø mm	l/mm	Weight without case and brace support	Weight with case and brace support	Pieces
2601100010000	2601-1	1500	416	1/2"	1"	1:3,6	4:1	-	90	150	3000	5400	1
2601100020000	2601-2	1500	416	3/4"	1"	1:3,6	4:1	-	90	150	3000	5400	1
2601100030000	2601-3	3500	269	3/4"	1"	1:13	16:1	x	95	200	5200	7400	1
2601100040000	2601-4	4500	264	3/4"	1.1/2"	1:17	20:1	x	120	215	7700	14500	1
2601100050000	2601-5	7000	159	3/4"	1.1/2"	1:44	59:1	x	130	272	13000	25500	1
2601100060000	2601-6	10000	181	3/4"	1.1/2"	1:55	74:1	x	148	272	14500	27000	1

2602

TORQUE MULTIPLIER

- perfect tool for heavy duty vehicles
- 1 step planetary gear
- 2 braces included
- robust construction
- surfaces matt-chrome plated/ gunmetal-finish
- bi-directional actuation
- accuracy better than +-4%
- **attention, only for mechanical actuation!**
- in black plastic case

Code	Number	max. output capacitance Nm	max. output capacitance ft. lb.	▢	■	Torque Ratio	Gear reduction	Pieces	Weight/g
2602000001000	2602	2700	2000	3/4"	1"	1:4,33	5:1	1	7400

SCREWDRIVERS