

"HIGH PERFORMANCE" CLICK WRENCHES

306A - Click wrenches with removable ratchet

NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Factory accuracy: ± 2% except:
 - R.306-25D - K306-600D - K306-1000D (± 4%).
 - R.304DA (± 6%).
- Reliability of mechanism: 50 000 cycles (wrenches up to 200 N.m).
- Use possible with accessories:
 - End fitting: 9 x 12 or 14 x 18 mm.
 - Diameter: 30 mm.
- One-way wrenches usable for unscrewing by reversing the bits.
- Numbered wrenches supplied with ISO 6789 calibration certificate.
- Supplied in a plastic box with ratchet and hinged handle (except Ref R.306A25 - R.301A - K.306A600 - K.306A1000).

Ref	L [mm]	Attachment	Box	Capacity [N.m]	Wrench	Ratchet	Graduation [N.m]	Knob	ΔΔ [kg]
R.301A	185	9 x 12	BP.102	1 - 5	R.304DA	R.372	0,05	-	0.290
R.306A25	271	9 x 12	BP.D1	5 - 25	R.306-25D	R.372	0,10	-	0.450
J.306A50	357	9 x 12	BP.D2	10 - 50	J.306-50D	J.372	1,00	S.305P	0.930
J.306A100	437	9 x 12	BP.D2	20 - 100	S.306-100D	J.372	1,00	S.305P	1.0
S.306A100	437	9 x 12	BP.D2	20 - 100	S.306-100D	S.372	1,00	S.305P	1.0
S.306A200	515	14 x 18	BP.D3	40 - 200	S.306-200D	S.382	1,00	S.305P	1.3
S.306A350	725	14 x 18	BP.D3	70 - 350	S.306-350D	S.382	2,00	S.305P	1.8
K.306A600	990	14 x18	BP.D600	120 - 600	K.306-600D	K.382	2,00	-	5.2
K.306A1000	1280	Ø 30 mm	BP.D1000	200 - 1000	K.306-1000D	K.151B	4,00	-	5.9

K.306A

J.306A



306D - Click wrenches without accessories

NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Factory accuracy: ± 2% except:
 - R.306-25D - K.306A600 - K.306A1000 (± 4%).
 - R.304DA (± 6%).
- Reliability of mechanism: 50 000 cycles (wrenches up to 200 N.m).
- Use possible with accessories:
 - End fitting: 9 x 12 or 14 x 18 mm.
 - Diameter: 30 mm.
- One-way wrenches usable for unscrewing by reversing the bits.
- Numbered wrenches supplied with ISO 6789 calibration certificate.
- Supplied in plastic box.

Ref	L [mm]	Attachment	Box	Capacity [N.m]	Graduation [N.m]	ΔΔ [kg]
R.304DA	185	9 x 12	BP.102	1 - 5	0,05	0.290
R.306-25D	271	9 x 12	BP.D1	5 - 25	0,10	0.450
J.306-50D	357	9 x 12	BP.D2	10 - 50	1,00	0.930
S.306-100D	437	9 x 12	BP.D2	20 - 100	1,00	1.0
S.306-200D	515	14 x 18	BP.D3	40 - 200	1,00	1.3
S.306-350D	725	14 x 18	BP.D3	70 - 350	2,00	1.8
K.306-600D	945	14 x 18	BP.D600	120 - 600	2,00	4.6
K.306-1000D	1280	Ø 30 mm	BP.D1000	200 - 1000	4,00	5.9

K.306D

S.306D



■ "Low torque" click wrench with fixed ratchet



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Factory accuracy: $\pm 2\%$.
- Reliability of mechanism: 50,000 cycles.
- Compact wrench for confined access.
- Ratchet with 72 teeth (5°) for use with sockets.
- One-way wrench.
- Numbered wrench supplied with ISO 6789 calibration certificate.
- Supplied in a box, dim. (L. x W.): 205 x 120 mm.

ED	L [mm]	Box	Capacity [N.m]	Square ["]	Graduation [N.m]	$\Delta\Delta$ [g]
R.306-5	197	BP.102	1 - 5	1/4	0,05	300

■ S.306R - Click wrenches with attachment 20 x 7 mm



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Factory accuracy: $\pm 2\%$.
- Reliability of mechanism: 50,000 cycles (wrenches --> 200 N.m).
- Use possible with accessories attachment 20 x 7 mm.
- One-way wrenches usable for unscrewing by reversing the bits.
- Numbered wrenches supplied with ISO 6789 calibration certificate.
- Wrenches supplied in plastic protection tube.

ED	L [mm]	Attachment	Capacity [N.m]	Graduation [N.m]	$\Delta\Delta$ [kg]
S.306-100R	420	20 x 7	20 - 100	1	1.0
S.306-200R	510	20 x 7	40 - 200	1	1.3
S.306-350R	698	20 x 7	70 - 350	2	1.9

■ R-J-S.306U - Click wrenches with dual lbf.in or lbf.ft and N.m graduation.



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- 72 tooth mechanism for 5° increments.
- Factory accuracy: $\pm 2\%$.
- Reliability of mechanism: 50,000 cycles.
- Click wrenches with dual lbf.in or lbf.ft and N.m graduation.
- Reversible model.
- Full metal wrenches with knurled handle.
- Numbered wrenches supplied with ISO 6789 calibration certificate.
- Supplied in plastic box with ratchet.

ED	L [mm]	Attachment	Box	Capacity [lbf.ft]	Capacity [lbf.in]	Square ["]	Graduation [lbf.ft]	Graduation [lbf.in]	$\Delta\Delta$ [kg]
R.306U	285	9 x 12	BP.D1	-	40 - 200	1/4	-	1	0.460
J.306U	379	9 x 12	BP.D2	-	200 - 1000	3/8	-	5	1.0
S.306U	600	14 x 18	BP.D3	30 - 250	-	1/2	1	-	1.6

"MULTI-PURPOSE" CLICK WRENCHES

■ R-J-S.208 - Click wrenches with fixed ratchet



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: ± 4%.
- Reliability of mechanism 25 000 cycles.
- Ratchet with 72 teeth (5° increment) for use with sockets.
- One-way wrenches.
- Sensitive sound click when reaching torque.
- Automatic reset.
- Supplied with ISO 6789 calibration certificate.
- Supplied in plastic protection tube.



ED	L [mm]	Capacity [N.m]	Square ["]	Graduation [N.m]	ΔΔ [kg]
R.208-25	300	5 - 25	1/4	0,1	0.500
J.208-50	357	10 - 50	3/8	0,5	0.780
S.208-100	416	20 - 100	1/2	1,0	1.0
S.208-200	479	40 - 200	1/2	2,0	1.2
S.208-340	632	60 - 340	1/2	2,0	1.5

■ J-S.208D - Click wrenches without accessories



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: ± 4%.
- Reliability of mechanism 25 000 cycles.
- End fitting: 9 x 12 or 14 x 18 mm for accessories (ratchets, polygon and open end bits).
- One-way wrenches usable for unscrewing by reversing the bits.
- Sensitive sound click when reaching torque.
- Automatic reset.
- Supplied with ISO 6789 calibration certificate.
- Supplied in plastic protection tube.



ED	L [mm]	Attachment	Capacity [N.m]	Graduation [N.m]	ΔΔ [kg]
J.208-50D	337	9 x 12	10 - 50	0,5	0.780
S.208-100D	396	9 x 12	20 - 100	1,0	0.920
S.208-200D	466	14 x 18	40 - 200	2,0	1.1
S.208-340D	618	14 x 18	60 - 340	2,0	1.4

■ J-S.208A - Click wrenches with removable ratchet



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: ± 4%.
- Reliability of mechanism 25 000 cycles.
- End fitting: 9 x 12 or 14 x 18 mm for accessories (ratchets, polygon and open end bits).
- One-way wrenches usable for unscrewing by reversing the bits.
- Sensitive sound click when reaching torque.
- Automatic reset.
- Supplied with ISO 6789 calibration certificate.
- Supplied in plastic protection tube with ratchet.



ED	L [mm]	Attachment	Capacity [N.m]	Square ["]	Wrench	Ratchet	Graduation [N.m]	ΔΔ [kg]
J.208A50	337	9 x 12	10 - 50	3/8	J.208-50D	J.372V	0,5	0.780
S.208A100	396	9 x 12	20 - 100	1/2	S.208-100D	S.372V	1,0	0.920
S.208A200	466	14 x 18	40 - 200	1/2	S.208-200D	S.382V	2,0	1.1
S.208A340	618	14 x 18	60 - 340	1/2	S.208-340D	S.382V	2,0	1.4

MANUAL RESET WRENCHES

MANUAL RESET WRENCH



The simple, heavy-duty wrench

Simple and reliable

- Strong, dependable wrenches.
- Accuracy to within $\pm 6\%$ of the reading in accordance with ISO 6789.
- Numbered and supplied with a calibration certificate.

Triple signal

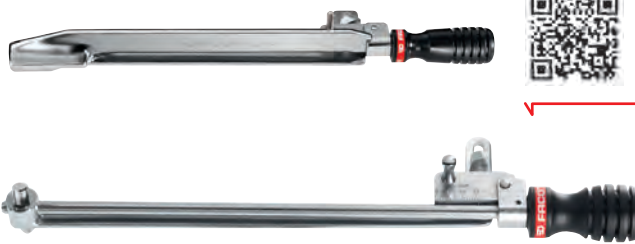
- Release of the rocker when preset torque is reached produces a triple visual, sensory and audible signal.
- Clear graduated scale ensures precise torque settings.
- Scale pointer movement helps to monitor torque increase.



R-J-S.203DA - Manual reset wrenches

- Accuracy: $\pm 6\%$.
- R.203A wrench, graduated in N.m. with fixed square.
- J.203A - S.203A wrenches, graduated in daN.m.
- Supplied in plastic storage case with ISO 6789 calibration certificate.

	L [mm]	Box	Capacity [daN.m]	Square ["]	Graduation	$\Delta\Delta$ [g]
R.203DA	320	BP.D5	0,6 - 3,6	1/4	2,0 N.m	300
J.203DA	440	BP.D5	2 - 10	3/8	0,5 daN.m	800
S.203DA	460	BP.D5	4 - 20	1/2	1,0 daN.m	900



R-J-S.203A - Manual reset wrenches with square drive and handle

NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 6\%$ value displayed.
- R.203A wrench, graduated in N.m.
- J.203A - S.203A wrenches, graduated in daN.m.
- Supplied in plastic storage case with ISO 6789 calibration certificate.



	L [mm]	Box	Capacity [daN.m]	Square	Square ["]	Wrench	Graduation	Knob	$\Delta\Delta$ [kg]
R.203A	320	BP.D5	0,6 - 3,6	-	1/4	R.203DA	2,0 N.m	R.200P	0.400
J.203A	440	BP.D5	2 - 10	J.203E	3/8	J.203DA	0,5 daN.m	S.200P	0.950
S.203A	460	BP.D5	4 - 20	S.203E	1/2	S.203DA	1,0 daN.m	S.200P	1.0



SJ-K214 - Extension for 203 series wrench

- Can double or triple the capacity of wrenches ref J.203DA - S.203DA.
- Use with:
 - 152 ratchets.
 - Bits series 20: SJ.214.
 - Sockets 3/4": K.214A.



	L [mm]	Capacity [daN.m]	$\Delta\Delta$ [kg]
SJ.214	400	x2	0.680
K.214A	860	x3	3.0

MANUAL RESET WRENCHES

■ J-S.202A - Manual click wrenches with removable ratchet



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 6\%$ value displayed.
- 1/4" square wrench: see product ref R.203A.
- Supplied in plastic storage case with ISO 6789 calibration certificate.

	L [mm]	Box	Capacity [daN.m]	Square ["]	Wrench	Ratchet	Graduation	$\Delta\Delta$ [kg]
J.202A	460	BP.D5	2-10	3/8	J.203DA	J.152	0,5 daN.m	1.0
S.202A	470	BP.D5	4-20	1/2	S.203DA	S.152	1,0 daN.m	1.1

■ R-J-S.205E - Modular sets with sockets



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Each of these sets has a free slot for an additional bit module.
- Choice of module and size (refer to the table).
- Supplied with a handle:
 - R.200P (R.205E).
 - S.200P (J.205E - S.205E).
- Supplied with extension SJ.214 (except R.205E).
- Supplied in a grey metal box.

	Box	Capacity [daN.m]	Square ["]	Wrench	Socket	Tray	$\Delta\Delta$ [kg]
R.205E	BT.112G	0,6 - 3,6	1/4	R.203DA	R.300.1	PL.142	1.4
J.205E	BT.118	2 - 10	3/8	J.203DA	J.300.11	PL.136	4.3
S.205E	BT.119	4 - 20	1/2	S.203DA	S.300.11	PL.135	4.7

SERIES 200 HIGH-TORQUE WRENCH



High-torque wrench

Comfort of use

- Large dial.
- Separate N.m and lbf.ft scales.
- Accurate to within $\pm 4\%$ of the reading in accordance with ISO 6789.
- Light signal on reaching preset torque.

Sturdy

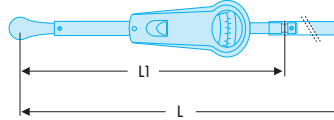
- Large round end fitting $\varnothing 30$ mm.
- Optional use with jack or lifting gear.

HIGH-TORQUE WRENCHES

■ **KM.B - High-torque wrenches with ratchet and drive square**

NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 4\%$ value displayed.
- Two reading scales: N.m and lbf.ft.
- Large size dial.
- Light alarm when reaching torque.
- Cylindrical attachment diameter 30 mm.
- Numbered wrenches supplied with calibration certificate.
- Wrenches supplied in metal case with storage module, dim. (L. x W. x H.): 760 x 220 x 140 mm.

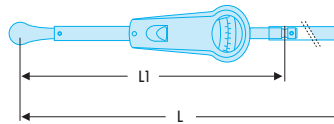


Model	L [mm]	L1 [mm]	Box	Capacity [lbf.in]	Capacity [N.m]	Square	Square ["]	Wrench	Ratchet	Handle	$\Delta\Delta$ Tray	$\Delta\Delta$ [kg]
K.201B	1019	595	BT.102	150 - 650	180 - 900	K.200E	3/4	K.200DB	K.151B	K.200MA	PL.549	8.0
K.203B	1019	595	BT.102	250 - 1100	300 - 1500	K.200E	3/4	K.202DB	K.151B	K.202MA	PL.549	8.0
M.201B	-	724	BT.102	300 - 1800	500 - 2500	M.200EA	1	M.200DB	M.151	-	PL.549	18,000

■ **KM.B - High-torque wrenches with drive square**

NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 4\%$ value displayed.
- Two reading scales: N.m and lbf.ft.
- Large size dial.
- Light alarm when reaching torque.
- Cylindrical attachment diameter 30 mm.
- Numbered wrenches supplied with calibration certificate.
- Wrenches supplied in metal case with storage module, dim. (L. x W. x H.): 760 x 220 x 140 mm.

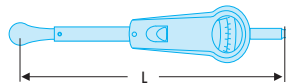


Model	L [mm]	L1 [mm]	Box	Capacity [lbf.ft]	Capacity [N.m]	Square	Square ["]	Wrench	Handle	$\Delta\Delta$ Tray	$\Delta\Delta$ [kg]
K.200B	1019	595	BT.102	150 - 650	180 - 900	K.200E	3/4	K.200DB	K.200MA	PL.549	6.2
K.202B	1019	595	BT.102	250 - 1100	300 - 1500	K.200E	3/4	K.202DB	K.202MA	PL.549	6.3
M.200B	-	724	BT.102	300 - 1800	500 - 2500	M.200EA	1	M.200DB	-	PL.549	13,00

■ **KM.DB - High-torque wrenches without accessories**

NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 4\%$ value displayed.
- Two reading scales: N.m and lbf.ft.
- Large size dial.
- Light alarm when reaching torque.
- Cylindrical attachment diameter 30 mm.
- Numbered wrenches supplied with calibration certificate.



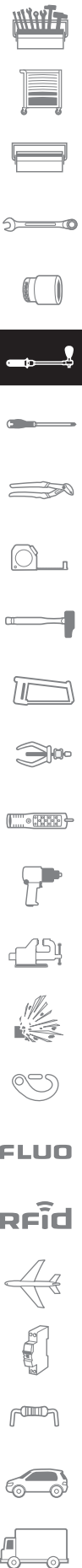
Model	L [mm]	Capacity [lbf.ft]	Capacity [N.m]	Graduation [lbf.ft]	Graduation [N.m]	$\Delta\Delta$ [kg]
K.200DB	595	150 - 650	180 - 900	25	25	3.6
K.202DB	595	250 - 1100	300 - 1500	50	50	4.7
M.200DB	724	300 - 1800	500 - 2500	100	100	5.7

■ **Handle for wrench M.200DB**

- Telescopic handle gives up to 3m leverage including length of wrench.
- Complete with fasteners.



Model	$\Delta\Delta$ [kg]
M.200M	8.144



TORQUE MULTIPLIER

TORQUE MULTIPLIER SELECTION GUIDE

Required input torque: $\text{input torque} = \frac{\text{output torque}}{\text{multiplying factor}}$

Example: Specified tightening torque: 2000 N.m Model NP.300B
 → Input torque = $2000 / 25 = 80 \text{ N.m}$.

Model	Input drive	Output drive	Accuracy	Multiplying factor	Max. input torque	Max. output torque
MC.130B	1/2"	3/4"	+/-4%	5	260	1300
MC.270B	3/4"	1"	+/-4%	5	540	2700
NP.100B	1/2"	3/4"	+/-4%	25	40	1000
NP.200B	1/2"	1"	+/-4%	25	80	2000
NP.300B	1/2"	1"	+/-4%	25	120	3000
NP.600B	1/2"	1 1/2"	+/-4%	25	240	6000

Warning

- For your safety, use only impact grade sockets and accessories. Always lock sockets with the appropriate pin and ring.
- Never use manual or pneumatic impact wrenches with this type of tool.



MC.B Torque Multiplier

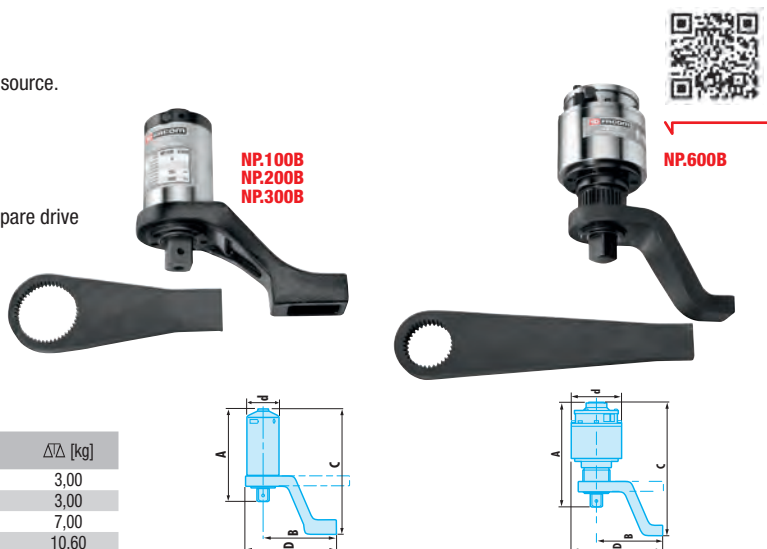
- Compact and lightweight models suited to maintenance work on vans and trucks.
- Multiplication ratio: 5:1.
- Supplied with 2 reaction arms (straight and angled) and one spare drive square.



Model	A [mm]	B [mm]	C [mm]	d [mm]	L [mm]	ΔΔ [kg]
MC.130B	126	263	180	106	396	3.8
MC.270B	128	263	186	106	396	3.8

NP.B - Sets with torque multiplier

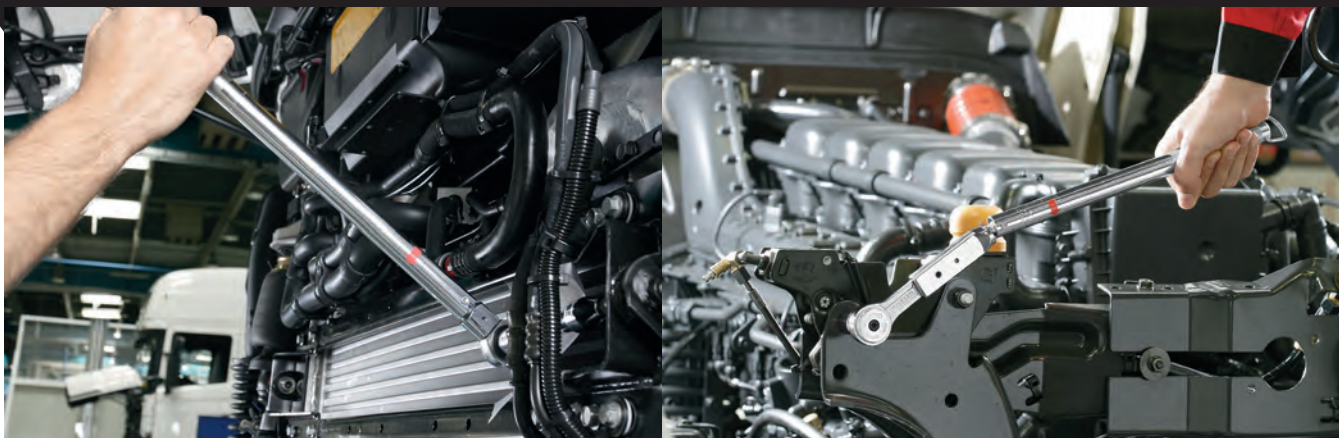
- Powerful tightening and untightening without external energy source.
- Constant multiplication ratio: 25:1.
- Safety: input torque limiter.
- Non-return system.
- Rate = 25:1.
- Supplied with 2 reaction arms (straight and angled) and one spare drive square, with a compliance certificate.



Model	A [mm]	B [mm]	C [mm]	d [mm]	ΔΔ [kg]
NP.100B	174	165	218	72	3,00
NP.200B	174	165	218	72	3,00
NP.300B	224	141	285	108	7,00
NP.600B	271	154	351	119	10,60

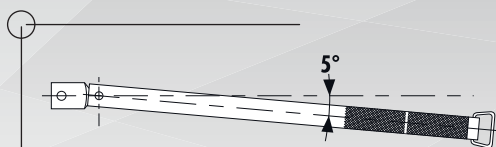


248 AND 446 SERIES ADJUSTABLE WRENCHES "NON GRADUATED"



Compact, durable production wrenches

248 series ▶



248 series

- 5° release angle.
- 9x12 and 14x18 end fittings.
- Accuracy $\pm 4\%$.

Durable

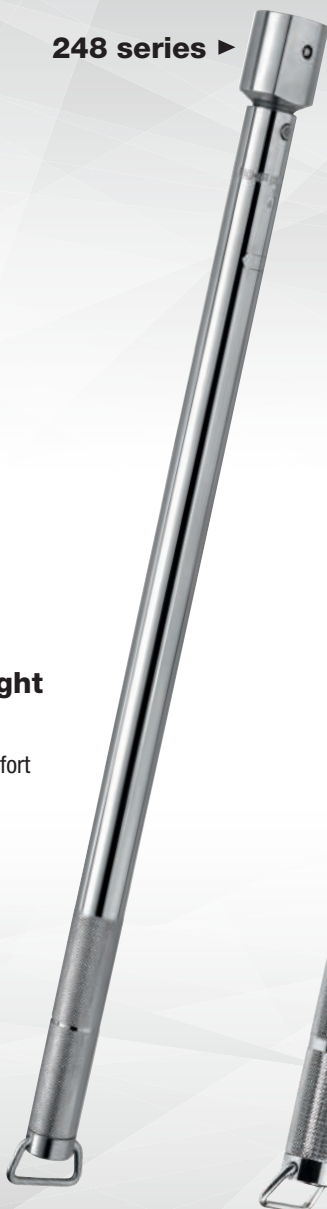
- For intensive and repetitive use, tested to over 100,000 cycles.

Compact and lightweight

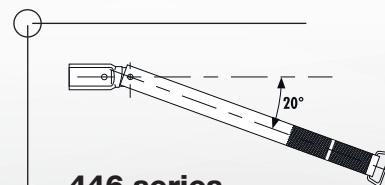
- Shorter and more compact for working in confined spaces.
- Reduced weight for increased comfort when performing intensive tasks.

Safe

- Non-graduated preset torque wrenches for production applications.
- Preset with a hex key and a torque meter, no risk of accidentally altering settings.
- Touch and sound signals on release: can be used in noisy and poor visibility conditions.



446 series ▼



446 series

- Wide (20°) release angle.
- 20x7 end fitting
- Accuracy $\pm 8\%$.



"NON VERNIER" ADJUSTABLE WRENCHES

■ "Non vernier" adjustable click wrenches



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: ± 4 %.
- Proven reliability: 100,000 cycles.
- End fitting: 9 x 12 or 14 x 18 mm.
- Wrenches which can be preset and used in tightening and untightening.
- Torque adjustment with a key using a control bench, see range of torque controllers.
- Knurled metal handle.
- Numbered wrenches supplied in plastic protection tube.

⇒	L [mm]	Attachment	Capacity [lbf.ft]	Capacity [lbf.in]	Capacity [N.m]	ΔΔ [kg]
R.344DA	200	9 x 12	-	10 - 50	1 - 5	0.240
R.248-25D	250	9 x 12	-	45 - 220	5 - 25	0.280
J.248-50D	331	9 x 12	-	90 - 440	10 - 50	0.740
S.248-100D	399	9 x 12	15 - 74	-	20 - 100	0.880
S.248-200D	464	14 x 18	30 - 148	-	40 - 200	1.1
S.248-340D	618	14 X 18	44 - 250	-	60 - 340	1.4

■ R-J-S.446 - "Non vernier" wide angle adjustable wrenches



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: ± 8%.
- Proven reliability: 50,000 cycles.
- End fitting: 9 x 12 or 20 x 7 mm.
- Wrenches adjustable with a torque meter, see range of torque controllers.
- Wrenches supplied with ISO 6789 calibration certificate.
- Wrenches supplied in plastic protection tube.

⇒	L [mm]	Attachment	Capacity [N.m]	Square ["]	ΔΔ [g]
R.446-25	214	9 x 12	5 - 25	1/4	380
J.446-50	279	20 x 7	10 - 50	3/8	490
S.446-100	407	20 x 7	20 - 100	1/2	840



FLUO

RFid

ELECTRONIC TORQUE WRENCHES AND ADAPTERS

■ E.306D - Electronic torque wrenches



■ E.306A - Electronic torque wrenches with ratchet



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 2\%$ between 20% and 100% wrench capacity.
- Measuring mode: peak or follower.
- Measuring unit: N.m, lbf.ft, lbf.in and kg.cm.
- Bits: 9 x 12 and 14 x 18 mm.
- Numbered wrenches supplied with ISO 6789 calibration certificate.
- Presetting possible of 9 torque values.
- Memory 250 values with PC USB link.
- Supplied in plastic case with foam interior.

Model	L [mm]	Capacity [N.m]	$\Delta\Delta$ [kg]
E.306-30D	360	1,5 - 30,0	1.5
E.306-135D	375	6,7 - 135,0	1.5
E.306-200D	474	10 - 200	2.4
E.306-340D	594	17 - 340	2.6

NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 2\%$ between 20% and 100% wrench capacity.
- Measuring mode: peak or follower.
- Measuring unit: N.m, lbf.ft, lbf.in and kg.cm.
- Bits: 9 x 12 and 14 x 18 mm.
- Numbered wrenches supplied with ISO 6789 calibration certificate.
- Presetting possible of 9 torque and/or angle values.
- Memory 250 values with PC USB link.
- Supplied in plastic case with foam interior.

Model	L [mm]	Capacity [N.m]	Square ["]	Ratchet	$\Delta\Delta$ [kg]
E.306A30R	390	1,5 - 30,0	1/4	R.372	1.6
E.306A135J	415	6,7 - 135,0	3/8	J.372V	1.7
E.306A135S	415	6,7 - 135,0	1/2	S.372V	1.7
E.306A200S	530	10 - 200	1/2	S.382V	2.7
E.306A340S	650	17 - 340	1/2	S.382V	2.9

E.316D - Electronic torque / angle wrenches



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy:
 - Torque: $\pm 2\%$ between 20% and 100% wrench capacity.
 - Angle: $\pm 2^\circ$.
- End fitting: 9 x 12 and 14 x 18 mm.
- Measuring mode: peak or follower.
- Locking keypad (the operator has access only to program choices and result memorising).
- Measuring unit: N.m, lbf.ft, lbf.in, kg.cm and deg.
- Presetting possible of 9 torque and/or angle values.
- Memory 250 values with PC USB link.
- Supplied with calibration certificate.
- Supplied in plastic case and foam module.

Model	L [mm]	Capacity [N.m]	$\Delta\Delta$ [kg]
E.316-30D	360	1,5 - 30,0	1.5
E.316-135D	375	6,7 - 135,0	1.5
E.316-200D	474	10 - 200	2.4
E.316-340D	594	17 - 340	2.6

E.316A - Electronic torque / angle wrenches with ratchet



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy:
 - Torque: $\pm 2\%$ between 20% and 100% wrench capacity.
 - Angle: $\pm 2^\circ$.
- End fitting: 9 x 12 and 14 x 18 mm.
- Measuring mode: peak or follower.
- Locking keypad (the operator has access only to program choices and result memorising).
- Measuring unit: N.m, lbf.ft, lbf.in, kg.cm and deg.
- Presetting possible of 9 torque and/or angle values.
- Memory 250 values with PC USB link.
- Supplied with calibration certificate.
- Supplied in plastic case and foam module.

Model	L [mm]	Capacity [N.m]	Square ["]	Ratchet	$\Delta\Delta$ [kg]
E.316A30R	390	1,5 - 30,0	1/4	R.372	1.6
E.316A135J	415	6,7 - 135,0	3/8	J.372V	1.7
E.316A135S	415	6,7 - 135,0	1/2	S.372V	1.7
E.316A200S	530	10 - 200	1/2	S.382V	2.7
E.316A340S	650	17 - 340	1/2	S.382V	2.9

E.406 - Electronic angle adapter



- Accuracy: $\pm 2^\circ$.
- Angular range: 1 – 360°.
- Measuring unit: degree.
- Accuracy: 0,1°.
- Presetting possible of 9 angle values.
- Memory 50 values.
- Supplied in plastic case with calibration certificate.

Model	$\Delta\Delta$ [g]
E.406	388

E.506 - Electronic torque / angle adapter



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy:
 - Torque: $\pm 3\%$ between 20% and 100% wrench capacity.
 - Angle: $\pm 2^\circ$.
- Measuring mode: peak or follower.
- Cycle counter.
- Locking keypad (the operator has access only to program choices and result memorising).
- Measuring unit: N.m, lbf.ft, lbf.in, kg.cm and deg.
- Presetting possible of 9 torque and/or angle values.
- Memory 50 values.
- Supplied in plastic case with calibration certificate.

Model	L [mm]	Capacity [N.m]	Resolution	$\Delta\Delta$ [g]
E.506-135S	80	6,7 - 135,0	0,1	268
E.506-200S	80	10 - 200	0,1	268
E.506-340S	80	17 - 340	0,1	268



RELEASE TYPE TORQUE DRIVERS



An accurate, durable low-torque tool

Reliable, high performance

- Reliability of mechanism tested over more than 50,000 operations.
- Accuracy exceeds ISO 6789 specified performance of $\pm 6\%$.
- Automatic reset every 120°.

Safe

- Automatically releases upon reaching the specified torque, impossible to exceed the set value.
- Protected adjustment system: no risk of accidentally altering settings.
- Flattened profile prevents tool rolling on the work-top.

A.300MT series

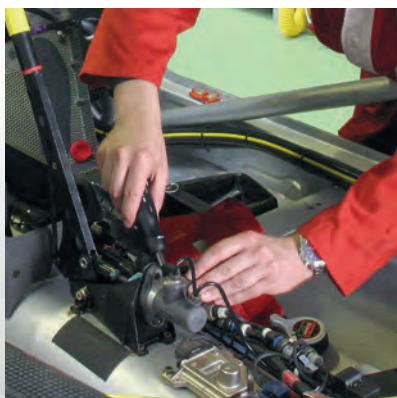


A.400 series



Ergonomic

- Clear, easy to read vernier.
- Ergonomic handle providing an excellent grip.
- Lightweight.



ISO 6789 Type II - CLASS D - CLASS F

RELEASE TYPE TORQUE DRIVER

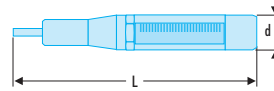
A.MT - Micro-Tech® "low torque" screwdriver

NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Lightweight and compact screwdriver for low torque load.
- Right-hand torquing.
- Female hex output for use with bits series 0 - 4 mm (1/4" output with ECR.O drive optional).
- Hex key Adjustment .
- Supplied with calibration certificate and adjustment key.



Model	d [mm]	L [mm]	Capacity [cN.m]	Bits	Graduation	Graduation [Cn.m]	ΔΔ [g]
A.300MT	21	96,5	4 - 20	0	0,05	0,05	75
A.301MT	23	130,0	15 - 75	1	0,50	0,5	130



A.MTJ1 - Micro-Tech® torque screwdriver sets

NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Lightweight and compact screwdriver for low torque load.
- Right-hand torquing.
- Female hex output for use with bits series 0 - 4 mm (1/4" output with ECR.O drive optional).
- Bits series 0 drive 4 mm.
- Adjustment key 4 mm.
- Supplied in case with calibration certificate.



Model	Capacity [cN.m]	Bits	Screwdriver	ΔΔ [g]
A.300MTJ1	4 - 20	Slotted head: 1,8 - 2,5, PH 0,9 - 1,3 - 1,5 - 2 mm, PZ 0 - 1 - 2 mm	A.300MT	300
A.301MTJ1	15 - 75	Slotted head: 4 - 4,5 - 5,5, PH 1,5 - 2,5 - 3 mm, PZ 0 - 1 mm	A.301MT	370

A.400 - Screwdriver with vernier adjustment

NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Class II type D (A.400 maintenance).
- One-direction screwdriver, right-hand torquing.
- Female hex output for use with 1/4" bit.
- ECR drive 1/4" - 1/4" for sockets and accessories optional.
- 1/4" drive on the handle for use with a ratchet handle type A.300PA.
- Hex key Adjustment .
- Supplied with calibration certificate, adjustment key and individual identification number.



Model	L [mm]	Torque N.m	Graduation [N.m]	ΔΔ [g]
A.402	147	0,5 - 2,5	0,1	280
A.404	147	2 - 10	0,5	400



■ A.J2 - Torque screwdriver sets



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Class II type D (A.400 maintenance).
- One-direction screwdriver, right-hand torquing.
- Female hex output for use with bits series 1 - 1/4".
- 1/4" drive on the handle for use with a ratchet handle type A.300PA.
- Ratchet handle (A.300PA).
- Adjustment key 4 mm.
- Supplied in case with calibration certificate and individual identification number.



	Box	Wrench	Bits	Tray	Knob	Bit holder	Screwdriver	ΔΔ [g]
A.402J2	BP.102	A.402-20	Slotted head: 4,5 - 6,5 - 8, Hexagon: 3 - 4 - 5 mm, PZ: 1 - 2 - 3 mm	PL.436	A.300PA	EF.1P4	A.402	700
A.404J2	BP.102	A.404-20	Slotted head: 4,5 - 6,5 - 8, Hexagon: 3 - 4 - 5 mm, PZ: 1 - 2 - 3 mm	PL.435	A.300PA	EF.1PA	A.404	830

■ A.J1 - Torque screwdriver sets - 1/4" sockets



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Class II type D (A.400 maintenance).
- One-direction screwdriver, right-hand torquing.
- Female hex output for use with 1/4" bit.
- 1/4" drive on the handle for use with a ratchet handle type A.300PA.
- Ratchet handle A.300PA.
- ECR drive 1/4" - 1/4" for sockets and accessories.
- Extensions 1/4" (R.210 and R.215).
- Adjustment key 4 mm.
- Supplied in case with calibration certificate and individual identification number.



	Box	Wrench	Socket	Tray	Knob	Screwdriver	ΔΔ [kg]
A.402J1	BP.115	A402 - 20	R.3.2 - 4.0 - 5.0 - 5.5 - 6.0 - 7.0 - 8.0 - 9.0 - 10.0 mm	PL.434	A.300PA	A.402	1,10
A.404J1	BP.115	A404 - 20	R.3.2 - 4.0 - 5.0 - 5.5 - 6.0 - 7.0 - 8.0 - 9.0 - 10.0 mm	PL.433	A.300PA	A.404	1,20

■ Ratchet handle for torque screwdrivers



- Adapting ratchet handle: increased tightening power for repeating or high torque tightening.
- For torque screwdrivers capacity 0.50 --> 10 N.m.
- Max torque: 30 N.m.



	ΔΔ [g]
A.300PA	85

■ Drive socket adapter



- Bit to use 1/4" sockets with the torque screwdrivers A.300MT - A.340MT.
- 6-point drive 4 mm.

	L [mm]	ΔΔ [g]
ECR.0	22	7

■ Socket adapter - 1/4"



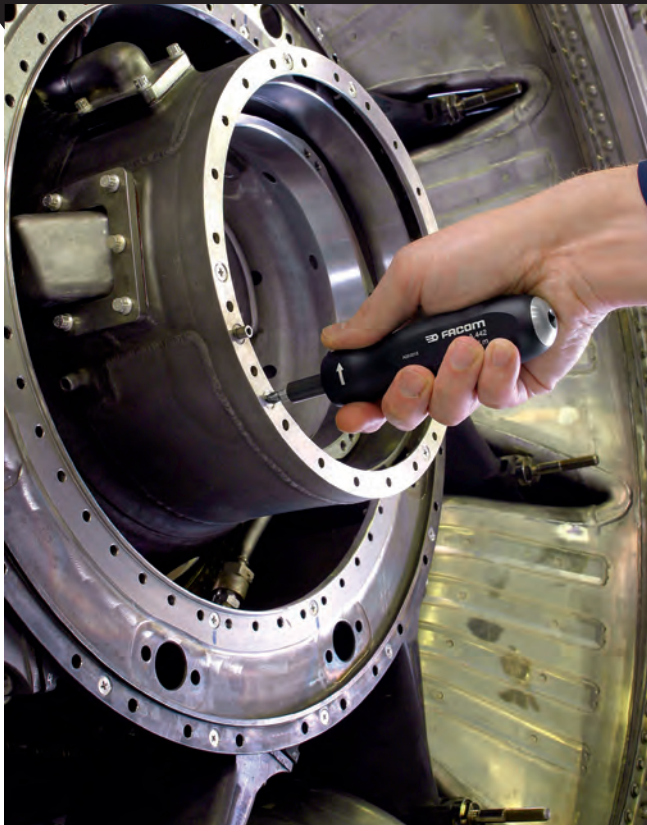
NF ISO 1173, ISO 1173

- Bit to use 1/4" sockets with the torque screwdrivers A.400 - A.440 - A.301MT - A.341MT.

	L [mm]	ΔΔ [g]
ECR	25	15

"NON VERNIER" RELEASE TYPE TORQUE DRIVER

A.440 AND A.340MT SERIES NON-VERNIER DRIVERS

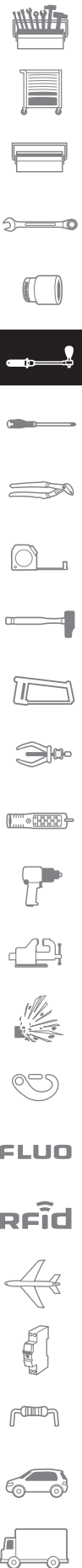


Drivers designed for production applications

Same characteristics as A.400 and A.300MT

- Non-vernier adjustment, torque set with a torque-meter.
- Performance exceeds ISO 6789 requirements ($\pm 6\%$ of the preset value).
- Handle release when required torque is reached, prevents inadvertent overtorquing.
- Automatic reset every 120° .

ISO 6789 Type II - CLASS D - CLASS F

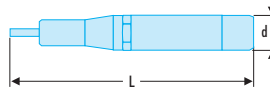


■ A.MT - Micro-Tech® "Production" torque screwdriver

- Screwdriver without vernier: this non graduated screwdriver is adjusted on a control bench.
- Lightweight and compact screwdriver designed specifically for low torque loads.
- One-direction screwdriver, right-hand torquing.
- Female hex output for use with 4 mm bits (1/4" output with ECR.O drive optional).
- Supplied with adjustment key 4 mm.
- Supplied with calibration certificate and individual identification number.



	d [mm]	L [mm]	Capacity [cN.m]	Capacity [lbf.in]	Series Bits	Outer Size	$\Delta\Delta$ [g]
A.340MT	21	96,5	4 - 20	0,35 - 1,70	0	4 mm	75
A.341MT	23	130,0	15 - 75	1,30 - 6,50	1	1/4"	130



■ A.440 - Micro-Tech® "Production" torque screwdriver

NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Class II type F (A.440 production).
- Screwdriver without vernier: this non graduated screwdriver is adjusted on a control bench.
- One-direction screwdriver, right-hand torquing.
- Female hex output for use with bits series 1 - 1/4".
- 1/4" drive on the handle for use with a ratchet handle type A.300PA.
- Supplied with adjustment key 4 mm.
- Supplied with calibration certificate and individual identification number.



	L [mm]	Torque N.m	$\Delta\Delta$ [g]
A.442	147	0,5 - 2,5	300
A.444	168	2 - 10	400



ELECTRONIC TORQUE SCREWDRIVERS

ELECTRONIC SCREWDRIVER SERIES E.S400



High precision for low torque

This new product offers the high precision and ease of use you'd expect from the FACOM brand. With its traceability functions, it is an ideal tool for maintenance in sectors such as aeronautics, medical, nuclear...

High performance

- Has a 2% accuracy, between 20% and 100% capacity, much higher than mechanical screwdrivers and the ISO 6789 standard (6% for torque screwdrivers).
- Electronic measure: high repeatability and no wear effect.

Easy use

- 9 pre-adjustable torque values.
- Measurement units available: cNm, in.lb, kg.cm.
- Sound and visual alarm once the torque is reached.
- Ergonomic: Protwist grip and bit autolocking system.

Traceability

- Tightening torques are transmitted through the USB cable.
- 250 torque value memory.

■ E.S400 - Torque reading electronic torque screwdrivers



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 2\%$ clockwise ($\pm 3\%$ counter clockwise) between 20% and 100% screwdriver capacity.
- Resolution: 0.1 cN.m.
- Measurement mode: tip or follower.
- 1/4" outlet with auto-locking system for series 1 and series 6 bits.
- Measurement unit: cN.m, in.lb, Kg.cm .
- 9 torque presets available.
- Memory 250 values with PC USB link.
- Locking keypad (program selection and result log only accessible to the operator).
- Hole in the handle for strapping when working in high places.
- Supplied with 1 AAA-LR03 1.5V battery.
- Supplied with an ISO6789 calibration certificate.
- Supplied in plastic case and foam module, dim. (L.xW.xH.): 570x100x70 mm.
- USB cable E.S404-USB and plugs E.S404-KIT set available as spares.



	L [mm]	Capacity [N.m]	$\Delta\Delta$ [g]
E.S401	215	0,1 - 1	630
E.S404	215	0,4 - 4	630

■ E.S400J1 - Electronic torque screwdriver sets - screwing bits



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 2\%$ clockwise ($\pm 3\%$ counter clockwise) between 20% and 100% screwdriver capacity.
- Resolution: 0.1 cN.m.
- Measurement mode: tip or follower.
- 1/4" outlet with auto-locking system for series 1 and series 6 bits.
- Measurement unit: cN.m, in.lb, Kg.cm .
- Presetting possible of 9 torque values.
- Memory 250 values with PC USB link.
- Locking keypad (program selection and result log only accessible to the operator).
- Hole in the handle for strapping when working in high places.
- Supplied with 1 AAA-LR03 1.5V battery.
- Supplied with an ISO6789 calibration certificate.
- Screwdriver length 215 mm.
- 6 series 6 bits with 1/4" groove - length 50 mm: slotted head 3 - 4 - 5.5 and Phillips® High Perf® 1 - 2 - 3.
- Supplied in plastic case and foam module, dim. (L.xW.xH.): 570x100x70 mm.
- USB cable E.S404-USB and plugs E.S404-KIT set available as spares.



	L [mm]	Capacity [N.m]	Screwdriver	$\Delta\Delta$ [kg]
E.S401J1	570	0,1 - 1	E.S401	1.2
E.S404J1	570	0,4 - 4	E.S404	1.2