

EF

Electric
Torque Multiplier



allkitronic®

Applications

- **alkitronic® EF / EFW** electrical torque multipliers for torques of 400 Nm to 42,500 Nm
- **Consistent torque accuracy** in all international power supplies 100-253 V / 45-66 Hz
- Precise shut-off torque also at operation with voltage-controlled portable generators
- Models **alkitronic® EFW** angle tools for **comfortable operation** in areas difficult to access

Advantages

- **Low running costs** due to maintenance-free, low-wear, brushless synchronous motor with excellent efficiency
- **High motor speed:** Up to three times faster than conventional electrical torque multipliers
- **Permanently higher joint quality** compared to ratchet torque tools by continuous rotation of the square drive
- **Ergonomic and comfortable operation:** The 360 degree rotating handle prevents reaction forces from being transferred to the operator

alkitronic® specials

- **Master quality boltings according to the torque/angle procedure** with the models **EFcip / ECWip** in version „plus“
- Innovative motor protection with automatic switch-off to secure the bolting quality
- **Consistent and precise reproduction of the pre-selected torque** thanks to smart processor-controlled switch-off electronics
- **Robust and long lasting:** Motor housing made of extruded aluminium profile
- **Safe work in any weather** (moisture, rain). Ask us about protection class IP 54

Specifications

All **alkitronic®** electric torque multipliers with CE-certification. Repeat shut-off accuracy $\pm 3\%$ for the same bolting application.

Electrical data:

Universal AC input 100 V - 253 V, frequency 45 Hz - 66 Hz, power max. 2000 W. Protection category I, protection class IP 20 (standard), protection class IP 54 (optional).



Models EF/EFW:

Operating interface with LEDs. Using the index datasheet or torque table, the matching shut-off torque can be selected from 19 pre-set values.

Models EF/EFW „plus“ versions:

Operating interface with LC display and menu guidance. Bolting programmes: Torque/angle procedure, relief angle, returns in angle degrees, etc.

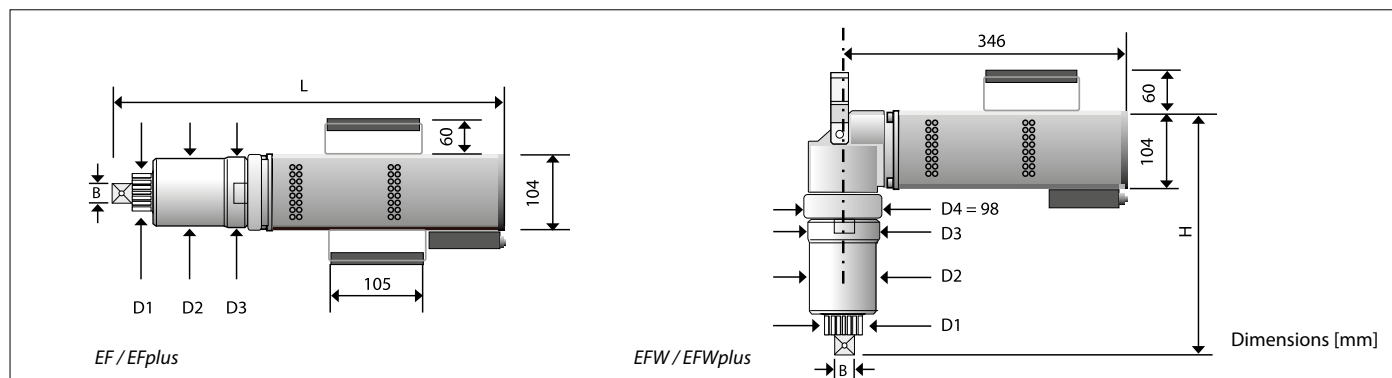


Applications

alkitronic® EFWip „all-weather“ design with protection class IP 54 (figure above). **alkitronic® EF**, bolting application at a diesel engine (figure on the right).



Technical Data



Models EF, EFplus

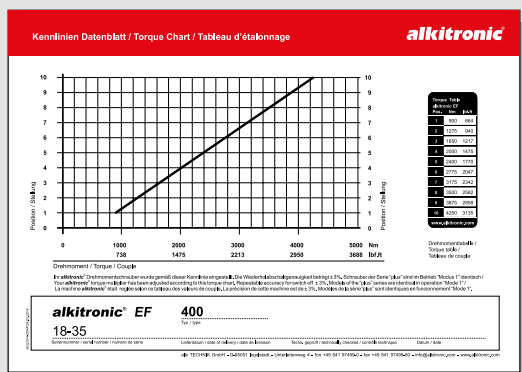
Type		EF 250	EF 300	EF 400	EF 600	EF 800	EF 1000	EF 2000	EF 4000
Torque range (approx.) *	Nm	430-2700	500-3100	900-4300	1150-6200	2000-7750	2050-9800	3500-20600	6200-42000
Square drive	B	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2 1/2"	2 1/2"
Diameter (approx.)	D ₁ mm	54	72	72	72	72	91	SW120	SW120
Diameter (approx.)	D ₂ mm	85	98	98	109	133	173	275	275
Diameter (approx.)	D ₃ mm	88	88	88	109	133	173	98	130
Length (approx.)	L mm	515	515	525	535	560	555	745/730 (ip)	745/730 (ip)
Weight without DMA (approx.)	kg	13	14	14.5	16	19.5	27	60	62
Idle speed	rpm	14	12	8	7	4	3	1	0.6

*) When loosening a bolted connection, up to 20% higher torque may be required (loosening torque). We will gladly advise you in detail.

Models EFW, EFWplus

Type		EFW 250	EFW 300	EFW 400	EFW 600	EFW 800	EFW 1000
Torque range (approx.) *	Nm	430-2700	500-3100	900-4300	1150-6200	1060-7950	2050-9800
Square drive	B	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Diameter (approx.)	D ₁ mm	54	72	72	72	72	91
Diameter (approx.)	D ₂ mm	85	98	98	109	133	173
Diameter (approx.)	D ₃ mm	88	88	88	109	133	173
Height (approx.)	H mm	285	305	320	350	350	380
Weight without DMA (approx.)	kg	13.5	13.5	15.5	17.5	20	29
Idle speed	rpm	14	12	8	7	4	3

Index datasheet for versions alkitronic® EF / EFW



Index datasheet (example EF400) with torque table for determination of torque values. The shut-off torque has a position figure assigned. In the operating area, the desired position can be selected with the +/- buttons. An LED shows the currently selected value (figure on the left, models alkitronic® EF/EFW).

Remote control



Extremely flexible with alkitronic® remote controls as accessories: alkitronic® FB plus stationary - machine control up to 300 m alkitronic® FB - EF - cable length 5 m (standard design)

alkitronic® provides all drive technologies.

Extract from our product range:



ELECTRIC



PNEUMATIC



HYDRAULIC



MANUAL



alkitronic®

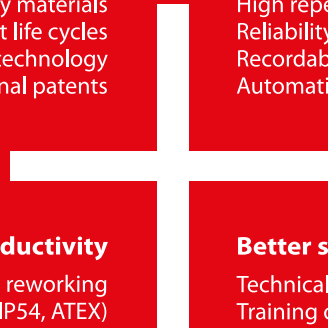
YOUR PLUS FOR MORE PERFORMANCE

Increased quality

- Premium production
- Use of high-quality materials
- Long product life cycles
- 30 years of experience in bolting technology
- Made in Germany – international patents

Increased precision

- Precise, customer-specific torques
- High repeatability
- Reliability in permanent operation
- Recordable tightening outputs
- Automatic shut-off



Increased productivity

- Quicker tightening without reworking
- No environmentally caused failures (IP54, ATEX)
- High work safety
- Simple use – easy instruction
- Low maintenance and cost efficient

Better service

- Technical advice on site
- Training offers
- Manufacturer's calibration and certification
- Lifecycle support
- Spare part and repair service

TORQUE POWER WORLDWIDE

alki TECHNIK GmbH

Development, Production and Distribution of Bolting Systems

Unterlettenweg 4 – 85051 Ingolstadt/Germany – fon +49 841 97499-0 – fax +49 841 97499-90
info@alkitronic.com – www.alkitronic.com