EF

Electric Torque Multiplier

alkitronic®

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 at operation with voltage-controlled portable generators
- Models ***alkitronic® EFW*** angle tools for restricted access

Advantages

- Low running costs
- Maintenance-free, low-wear, brushless synchronous motor with excellent efficiency
- High motor speed, up to three times as fast as conventional electrical torque multipliers
- Permanently higher joint quality compared to ratchet torque tools by continuous rotation of the square drive
- The 360 degree rotating handle ensures comfortable operation and none of the reaction forces are transferred to the operator

alkitronic® specials

- Models ***EFip / EFWip*** in version "*plus*" for high-quality bolting according to the torque/angle procedure
- Innovative motor protection with automatic switch-off to secure the bolting quality
- Smart processor-controlled switch-off electronics for consistently precise reproduction of the pre-selected torque
- Extraordinarily robust motor housing (aluminium alloy)
- Safe work in any weather (moisture, rain). Ask about the best design with **protection class IP 54**

Specifications

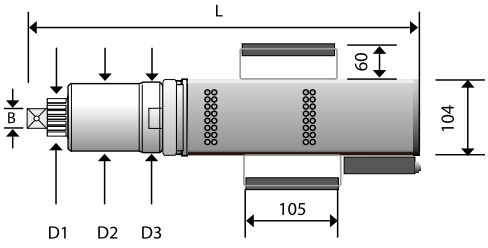
All ***alkitronic®*** electric torque multipliers with CE-certification
Repeat shut-off accuracy ± 3% for the same bolting application
Electrical data:
Universal AC Input 100 V - 253 V, frequency 45 Hz - 66 Hz
Power max. 2000 W, protection category I. Protection class IP 20 (standard), protection class 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.

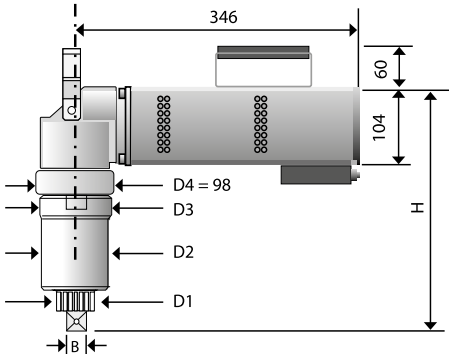
Models ***EF/EFW*** „plus" versions:
Operating interface with LC display and menu guidance. Bolting programmes: Torque/angle procedure, relief angle, returns in angle degrees, etc.

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



EF / EFplus



EFW / EFWplus

Dimensions [mm]

Models *EF*, *EFplus* and IP54 versions

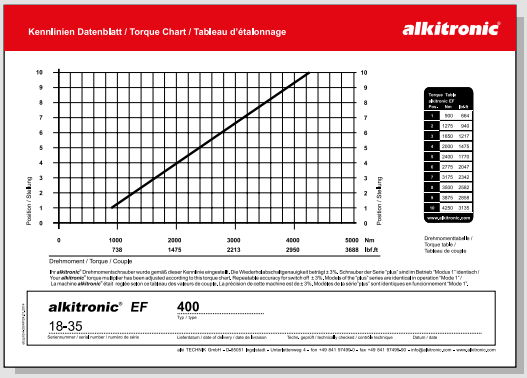
Type			EF 250	EF 300	EF 400	EF 600	EF 800	EF 1000	EF 2000	EF 4000
Torque range (approx.) *		Nm	435-2695	500-3100	900-4250	1100-6150	1800-7800	2050-9800	3500-20600	6240-42120
Square drive	B		1″	1″	1 1/2″	1 1/2″	1 1/2″	1 1/2″	2 1/2″	2 1/2″
Diameter (approx.)	D_1	mm	54	72	72	72	72	91	SW120	SW120
Diameter (approx.)	D_2	mm	85	98	98	123	148	173	275	275
Diameter (approx.)	D_3	mm	88	88	88	123	148	173	98	130
Length (approx.)	L	mm	515	515	525	550	555	555	745/730 (*ip*)	745/730 (*ip*)
Weight without DMA (approx.)		kg	13	14	14.5	19	22	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* and IP54 versions

Type			EFW 250	EFW 300	EFW 400	EFW 600	EFW 800	EFW 1000		
Torque range (approx.) *		Nm	435-2695	500-3100	900-4250	1100-6150	1800-7800	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	123	148	173		
Diameter (approx.)	D_3	mm	88	88	88	98	148	173		
Height (approx.)	H	mm	285	305	320	350	350	380		
Weight without DMA (approx.)		kg	13.6	13.6	15.8	19.8	23.8	29		
Idle speed		rpm	14	12	8	7	4	3		

Index datasheet for versions *alkitronic® EF / EFW*



Index datasheet (example ***EF 400***) 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)

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Technical Details are subject to be changed without prior notice

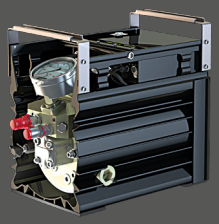
***alkitronic*® provides all drive technologies.**

Extract from our product range:

ELECTRIC

PNEUMATIC

HYDRAULIC



MANUAL

alkitronic®

YOUR PLUS FOR MORE PERFORMANCE

Greater Quality

First-class production
Use of high-quality materials
Long product service life
30 years of experience in bolting systems
Made in Germany – worldwide patented

Greater Precision

Accurate and customized torque
High repeated accuracy
High reliability in continuous operation
Recordable tightening outputs
Automatic shut-off

Greater Productivity

Fast error-free torquing
Hazardous Area Rated (IP 54, ATEX)
Worldwide power supply compatibility
Safe operation – easy instruction
Low maintenance and cost-efficient

Better service

Technical on site advice
Instruction and training courses
Manufacturer's calibration and certification
Lifecycle maintenance
Spares and repair service

TORQUE POWER WORLDWIDE

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Development, Production and Distribution of Bolting Systems

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