

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 $\pm 3\%$ 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.

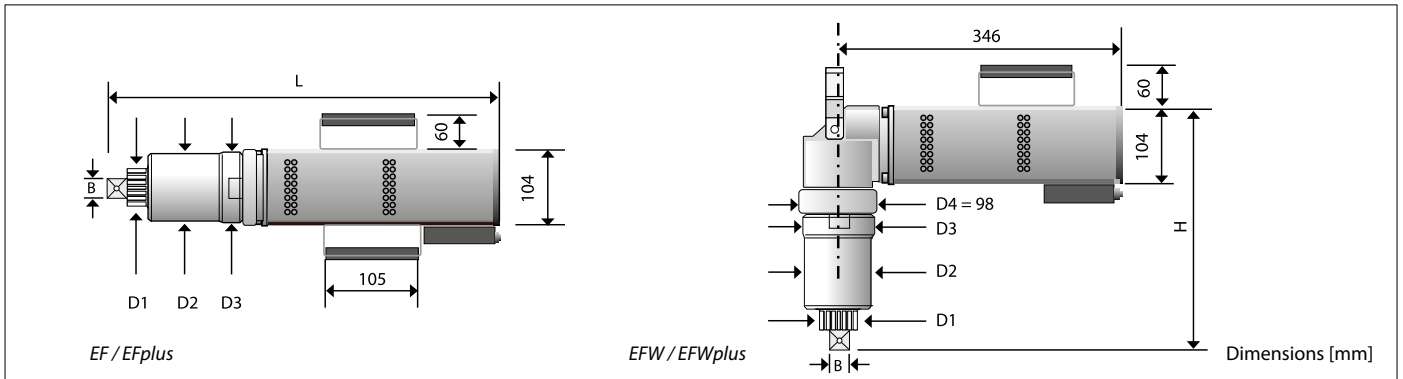
Models *EF*/*EFW* „plus“ versions:
Operating interface with LC display and menu guidance. Bolting programmes: Torque/angle procedure, relief angle, returns in angle degrees, etc.



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

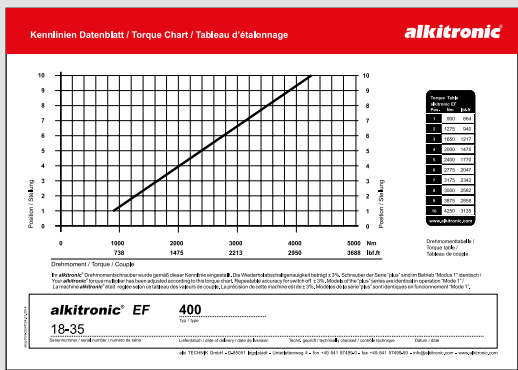
Type		EF 250	EF 300	EF 400	EF 600	EF 800	EF 1000	EF 2000	EF 4000
Torque range (approx.) *	Nm	430-2700	500-3100	900-4300	1150-6200	2000-7800	2050-9800	3500-20600	6200-42000
Square drive	B	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2 1/2"	2 1/2"
Diameter (approx.)	D ₁ mm	54	72	72	72	72	91	SW120	SW120
Diameter (approx.)	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	1050-8000	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)