

## pure power

### Applications

- **alkitronic® EF / EFW** electrical torque multipliers for torques of 400 Nm to 42,500 Nm.
- **Consistent torque accuracy** on all international power supplies 100-253 V / 45-66 Hz.
- **Precise shut-off torque** also operates with voltage-controlled portable generators.
- Models **alkitronic® EFW** angled 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.
- **Permanent 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 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 longlasting:** Motor housing made of extruded aluminum profile.
- **Safe work in any weather** (moisture, rain). Ask us about protection class IP 54.

#### Specifications

All alkitronic® electric torque multipliers have 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.



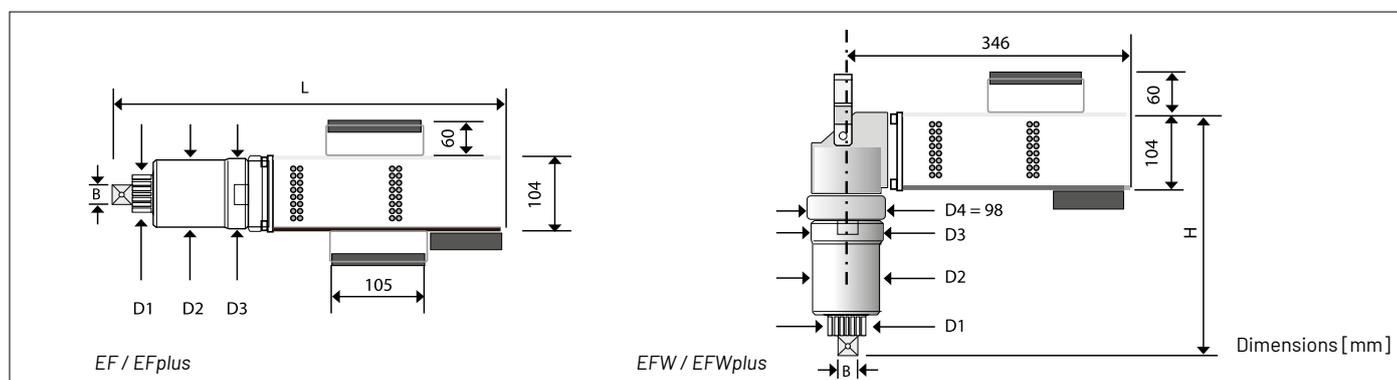
#### Applications:

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



# alkitronic® EF / EFW electric torque multipliers

## Technical Data



### Models EF, EFplus

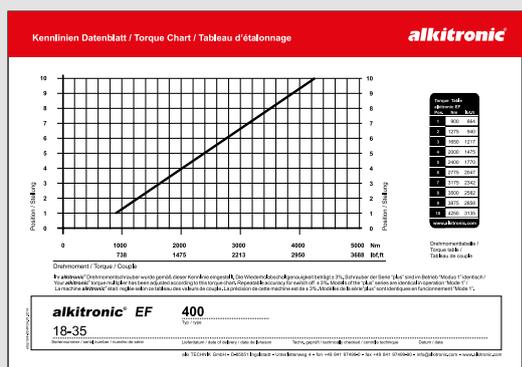
Type		EF 250	EF 300	EF 400	EF 600	EF 800	EF 1000	EF 2000	EF 4000
Torque range (approx.)*	Nm	430-2700	500-3100	900-4300	1150-6200	2000-7750	2050-9800	3500-20600	6200-42000
Square drive	B	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2 1/2"	2 1/2"
Diameter (approx.)	D <sub>1</sub> mm	54	72	72	72	72	91	SW120	SW120
Diameter (approx.)	D <sub>2</sub> mm	85	98	98	109	133	173	275	275
Diameter (approx.)	D <sub>3</sub> 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 <sub>1</sub> mm	54	72	72	72	72	91		
Diameter (approx.)	D <sub>2</sub> mm	85	98	98	109	133	173		
Diameter (approx.)	D <sub>3</sub> 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 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 3000 m  
alkitronic® FB - EF - cable length 5 m (standard design)