

**new**

*Standard Series with an  
outstanding cost-value ratio*

# **EFC & ECW**

- **precise, comfortable & efficient  
from 100V up to 253V**



**alki**  
**TECHNIK**  
GMBH



**alkitronic<sup>®</sup>**

## The economic, continuously rotating torque wrenches



### fast, reliable and precise

**Series EFC** - Standard type series in upright design.

**Series ECW** - Construction in angled design, ease of use for operation in narrow spaces.

Robust motor housing of aluminium casting for extreme continuous operation.

**Brush-free synchronized motor** of alki TECHNIK

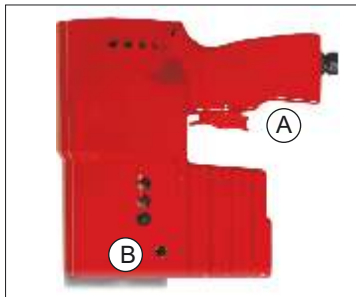
- outstanding efficiency factor
- low running costs (maintenance-free and low in wear).

Suitable for all international electric networks (100-253V / 45-66Hz), upon constant torque exactness!

Exact torque shut-off also when operating with a power unit!

**ECW: Redevelopment of the angular gear:**

Optimized efficiency level - outstanding operating characteristics



### Technical Details

Processor controlled switch-off electronic - with reduction of shut-off speed before reaching the required torque limit-value - for exact shut-off straight to the point.

Precise repeatability of torques - **Repeatable accuracy for switch-off  $\pm 3\%$**  for identically soft and hard joints. Continuous microcontrolled monitoring of speed and torque.

Intelligent motor protection with an automatic shut-off of temperature and an integrated permanent ventilator for short cooling-off times.

### Operation

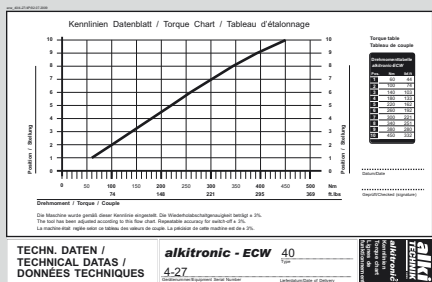
- (A) One-handed operation via a **multi-functional rocker switch button**
  - slow right/ left rotation for precise and safe positioning (tap operation)
  - Start or loosening of a bolted joint.

**Free joint execution** - variable positioning of operating unit (360°) upon fixed torque pick-up.

- (B) Upon Series ECW free positioning within 2 levels is blocked for safety reasons (Operating unit - connection to angular gear).

#### Torque Chart (Example ECW)

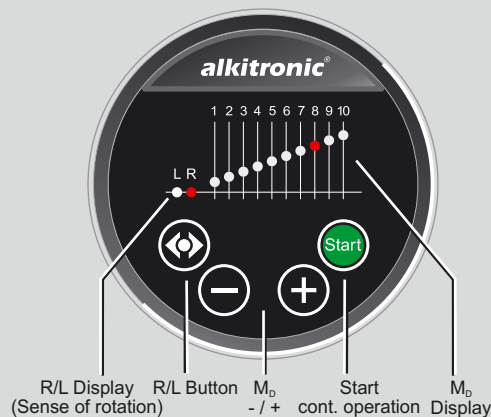
for determination of torque values.  $M_b$ -values are related to LED-positions in the display of the operation range (see panel on the right).



- Torques are pre-set standard values.
- Depending on soft and hard joints  $M_b$  - deviations are possible.

#### Operation Panel EFC / ECW

wide torque range with 19 selectable shut-off torques. The LED position (Pos.) numbers correspond to the  $M_b$ -values in the torque table (see drawing on the left). Option: EFC and ECW torque tools available in "plus" versions.

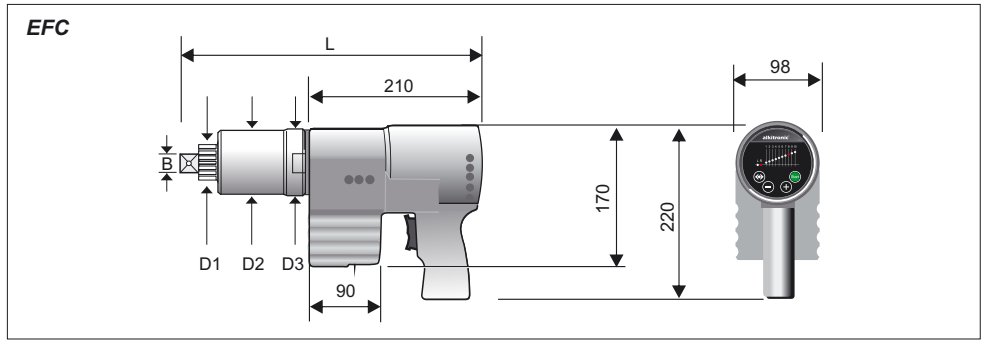


#### Example alkitronic EFC



# Technical Informations

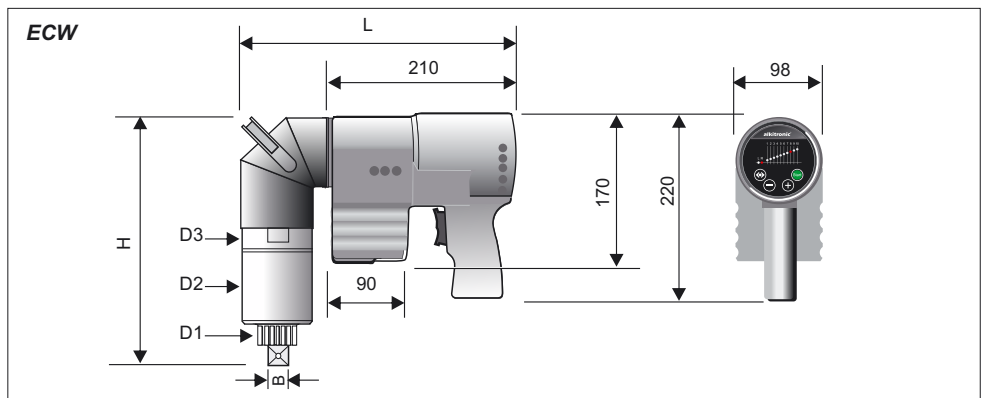
## alkitronic® EFC



Series EFC	Type	EFC 40	EFC 80	EFC 120	EFC 200	EFC 280	EFC 350	EFC 500
Torque range*	approx. Nm	60-450	150-840	200-1250	400-2100	500-2800	660-3600	900-5000
	lbf.ft	45-330	110-620	150-920	295-1550	370-2065	490-2650	660-3690
Square drive	B	3/4"	3/4"	3/4"/1"	1"	1"	1 1/2"	1 1/2"
Diameter D <sub>1</sub>	approx. mm	41	41	41/54	54	54	72	72
Diameter D <sub>2</sub>	approx. mm	85	85	85	85	85	98	105
Diameter D <sub>3</sub>	approx. mm	88	88	88	88	88	98	110
Length L	mm	330	330	375	375	382	400	438
Weight w/o support	approx. kg	8,8	8,8	10	10	10,6	12,5	17,8
Idle speed	approx. rmin <sup>-1</sup>	19	12	8	7	6	4	2
Prices	EUR							

\* Attention: Loosening torque of bolt might be up to 20% higher.

## alkitronic® ECW



Series ECW	Type	ECW 40	ECW 80	ECW 120	ECW 200	ECW 280	ECW 350	ECW 500
Torque range*	approx. Nm	60-450	150-840	200-1250	400-2100	500-2800	660-3600	900-5000
	lbf.ft	45-330	110-620	150-920	295-1550	370-2065	490-2650	660-3690
Square drive	B	3/4"	3/4"	3/4"/1"	1"	1"	1 1/2"	1 1/2"
Diameter D <sub>1</sub>	approx. mm	41	41	41/54	54	54	72	72
Diameter D <sub>2</sub>	approx. mm	85	85	85	85	85	98	105
Diameter D <sub>3</sub>	approx. mm	88	88	88	88	88	98	110
Length L	mm	302	302	302	302	302	316	320
Höhe H	mm	249	249	280/300	300	300	315	350
Weight w/o support	approx. kg	11,8	11,8	12,4/13	13	13,6	15,5	16,8
Idle speed	approx. rmin <sup>-1</sup>	20	13	9	8	7	4	2
Prices	EUR							

\* Attention: Loosening torque of bolt might be up to 20% higher.

**alkitorc®**



**25**  
J A H R E

**alkitronic®**

*torque power - worldwide*

**alki**  
**TECHNIK**  
GMBH

Unterlettenweg 4  
D- 85051 Ingolstadt

Phone +49 841 97499-0 info@alkitechnik.de  
Fax +49 841 97499-90 www.alkitechnik.de