# alkitronic XE-SERIES



# world's No. 1 choice

## **Applications**

- alkitronic® EC-S / EC-A electric torque multipliers from 70 to 6,530 Nm (55 to 4,800 ft.lbs).
- Consistent torque accuracy on all international power supplies 100 253 V / 45 66 Hz.
- **Precise shut-off** with on-site voltage-controlled portable generators.
- Models alkitronic® EC-A angled tools, low height for difficult access applications.

### Advantages

- Safe interruption-free work in any weather (moisture, rain) thanks to protection class IP54.
- Low running costs:
  - Low-wear, maintenance-free, brushless synchronous motor.
- Permanent higher joint quality by continuous rotation of the square drive.
- Simple 1-finger trigger operation for forward and reverse.
- **OLED-Display** anti-glare and high contrast for perfect reading under all weather conditions.
- Menu-guided intuitive operation, with control and warning signals.
- Ergonomic and comfortable operation:

The 360 degree rotating handle prevents reaction forces being transferred to the operator.

# alkitronic<sup>®</sup> specials

- High-quality bolting, according to torque/angle procedure.
- Highly innovative generation of electric torque multipliers with new sensorless control motor technology. Lower power consumption increases the service life of the electronic components.
- Repeat shut-off accuracy ± 2% for the same bolting application.
- Precise reproduction of preselected torque through intelligent, processor-controlled motor with automatic shut-off.
- Longerservicelife: Low heat generation thus highest reliability and almost no downtime.
- Robust and long lasting: Motor housing of cast aluminum.



#### **Specifications**

#### **Bolting programs:**

For user-specific applications, the manufacturer can activate optional modular software (alkitronic® EC-S / EC-A from serial number 712700).

**Software suite 1**: Torque controlled bolting (pre-installed)

**Software suite 2**: Torque/angle procedure for high-quality bolting connections

Software suite 2

**Premium**: Torque/angle procedure with adjustable max. torque limit

Software suite 3: Bolting with preset rotations and torque limit Software suite 5: Bluetooth transmission via alkitronic® APP

Documentation of the bolted joints (target-actual status, recording for each joint)

Remote control of single or multiple torque multiplier can be manual or fully automated.

**Special solution:** Preset torque increment according to customer's requirement (10 Nm /10 ft.lbs min). All *alkitronic*® torque multipliers with CE-certification.

#### Electrical data:

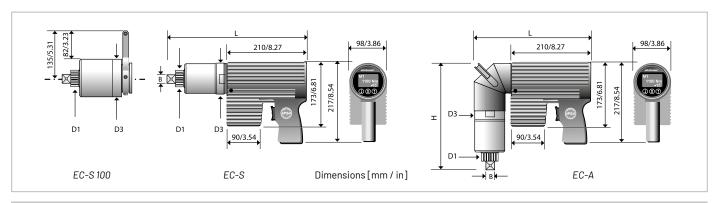
Universal AC input 100 V – 253 V, frequency 45 Hz – 66 Hz, power max. 1100 W, protection category I, protection class IP 54 (standard).





# alkitronic EC-S / EC-A electric torque multipliers

# **Technical Data**



Models EC-S													
Туре		EC-S 10	EC-S 20	EC-S 30	EC-S 35	EC-S 40	EC-S 50	EC-S 60	EC-S 65	EC-S 70	EC-S 80	EC-S 90	EC-S 100
Torque range (approx.)* Nm		70-420	80-680	100-940	150-1300	150-1590	190-1870	250-2340	290-2930	350-3470	440-4400	500-5300	650-6530
	ft.lbs	55-285	80-540	75-675	110-920	110-1190	140-1340	185-1725	215-2135	260-2540	325-3205	370-3730	480-4800
Square drive	В	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1 / 11/2"	11/2"	11/2"	11/2"
Diameter (approx.)	$\mathrm{D_1} \ \mathrm{mm}  \mathrm{/in}$	41/1.61	41/1.61	41/1.61	41/1.61	54/2.13	54/2.13	54/2.13	54/2.13	72/2.83	72/2.83	72/2.83	72/2.83
Diameter (approx.)	$\mathrm{D_3}\ \mathrm{mm}\ \mathrm{/}\ \mathrm{in}$	88/3.46	88/3.46	88/3.46	88/3.46	88/3.46	88/3.46	88/3.46	88/3.46	98/3.86	98/3.86	109/4.29	109/4.29
Length (approx.)	L mm/in	330/13.00	330/13.00	330/13.00	352/13.86	382/15.04	382/15.04	388/15.28	388/15.28	406/15.98	406/15.98	405/15.94	430/16.93
Weight w/o DMA** (appr.	) kg / lbs	9/19.84	9/19.84	9/19.84	9/19.84	10/22.05	10/22.05	11/24.25	11/24.25	13/28.66	13/28.66	14.5/31.97	15.5/34.17
Idle speed	rpm	70	40	30	22	15	14	11	8	7	5	4	3

Models EC-A										
Туре		EC-A 50	EC-A 60	EC-A 65	EC-A 70	EC-A 80	EC-A 90	EC-A 100		
Torque range (approx.) * Nm		190-1870	250-2340	290-2930	350-3470	440-4400	500-5300	650-6530		
	ft.lbs	140-1340	185-1725	215-2135	260-2540	325-3205	370-3730	480-4800		
Square drive	В	1"	1"	1"	1 / 11/2"	11/2"	11/2"	11/2"		
Diameter (approx.)	D <sub>1</sub> mm / in	54/2.13	54/2.13	54/2.13	72/2.83	72/2.83	72/2.83	72/2.83		
Diameter (approx.)	$D_3 \text{ mm / in}$	88/3.46	88/3.46	88/3.46	98/3.86	98/3.86	109/4.29	109/4.29		
Length (approx.)	L mm/in	310/12.20	310/12.20	310/12.20	318/12.52	318/12.52	326/12.83	326/12.83		
Height (approx.)	H mm/in	300/11.81	305/12.01	305/12.01	315/12.40	315/12.40	345/13.58	350/13.78		
Weight w/o DMA** (ap	pr.) kg / lbs	14/30.86	14/30.86	14/30.86	16/35.27	16/35.27	17/37.48	18/39.68		
Idle speed	rpm	14	11	8	7	5	4	3		

<sup>\*)</sup> When loosening bolts, a higher torque (up to 20 %) may be necessary (release torque). We will be pleased to help you with your choice. \*\*) Torque reaction arm

#### Display views

Software suite 1 (mode 1) and software suite 2 (mode 2)

Mode 1 / M1(Standard)



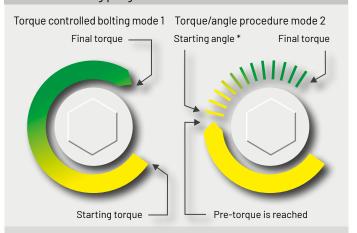
Bolting via torque. Automatic relief according to pre-set angle degrees. Mode 2 / M2 (Option)



Torque/angle procedure for highquality bolting connections. Display example of pre-torque, angle and loosening angle.

During the bolting process, the current torque value is shown in the display. Reaching the set value is indicated by an "OK". If the selected value cannot be achieved, the bolting operation is evaluated as "nOK".

#### Scheme bolting programs



#### \* Information on rotational angle setting for torque/angle method:

- The angle of rotation is specified specifically for the bolting connection.
- The angle of rotation can be determined individually and easily with **alkitronic® M-SD**. We will gladly provide you with detailed product information.



# YOUR PLUS FOR MORE PERFORMANCE

#### **Increased quality**

Premium production
Highest quality materials
Long product life cycles
Experience in bolting technology since 1984
Made in Germany – international patents

#### **Increased productivity**

Quicker tightening without reworking No environmentally caused failures (IP54, ATEX) High work safety Easy to use: clear, simple instructions Low maintenance and cost efficient

#### **Increased precision**

Precise, customer-specific torques High repeatability Reliability in permanent operation Documentation of tightening results Automatic shut-off

#### **Better service**

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

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#### **EXTRACT FROM OUR PRODUCT RANGE**



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THE ELECTRICS



**alkitronic** XP-SERIES
THE PNEUMATICS



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THE HYDRAULICS



**alkitronic** XM-SERIES
THE MANUALS