

EFCip
Electric
Torque Multiplier

allkitronic®



world's No. 1 choice

Applications

- **alkitronic® EFCip / ECWip** electric torque multipliers from 75 to 6,500 Nm.
- **Consistent Torque accuracy** on all international power supplies 100 - 253V / 45-66 Hz.
- **Precise shut-off** with on-site voltage-controlled portable generators.
- Models **ECWip** angle 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 and 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-driven intuitive operation**, control or warning signals.
- **Ergonomic and comfortable operation:**
The 360 degree rotating handle prevents reaction forces being transferred to the operator.

alkitronic® 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** $\pm 2\%$ for the same bolting application. Precise reproduction of preselected torque through intelligent, processor-controlled motor with shut-off automatic.
- **Longer service life:** 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, modular software solutions can be optionally activated on the manufacturer's side (alkitronic® EFCip/ECWip 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 4:	Bolting parameters according to individual customer requirements
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 automatical.

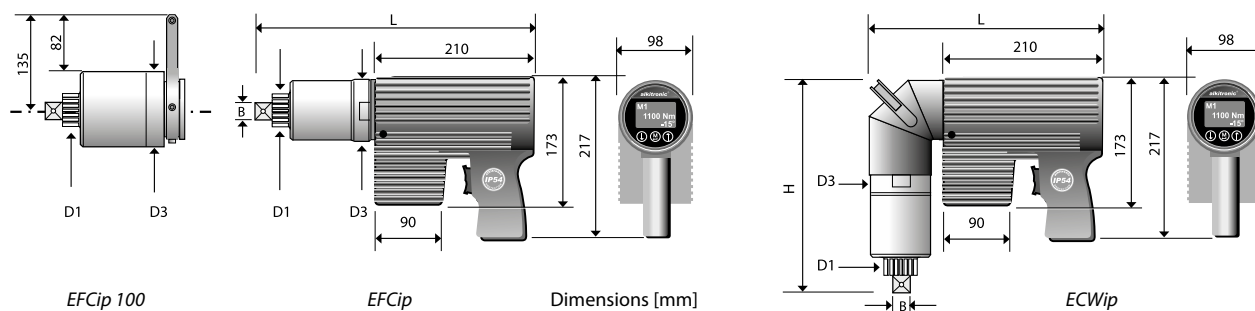
Special solution: Preset torque increment according to customer's requirement (5 Nm min.)
All **alkitronic®** torque multipliers with CE-certification.

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).



Technical Data



Models EFCip

Type		EFCip 10	EFCip 20	EFCip 30	EFCip 40	EFCip 50	EFCip 60	EFCip 65	EFCip 70	EFCip 80	EFCip 90	EFCip 100
Torque range (approx.) *	Nm	75-420	80-620	100-940	150-1500	190-1850	250-2450	290-2900	350-3500	440-4300	500-5000	650-6500
Torque range (approx.) *	lbf.ft	55-305	60-540	75-675	110-1190	140-1340	185-1865	215-2135	260-2540	325-3205	370-3730	480-4800
Square drive	B	3/4"	3/4"	3/4"	1"	1"	1"	1"	1 1/16"	1 1/2"	1 1/2"	1 1/2"
Diameter (approx.)	D ₁ mm	41	41	41	54	54	54	54	72	72	72	72
Diameter (approx.)	D ₃ mm	88	88	88	88	88	88	88	98	98	109	109
Length (approx.)	L mm	330	330	330	382	382	388	388	406	406	405	430
Weight without DMA (approx.)	kg	9	9	9	10	10	11	11	13	13	14,5	15,5
Idle speed	rpm	70	40	30	15	14	11	8	7	5	4	3

Models ECWip

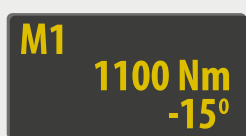
Type		ECWip 10	ECWip 20	ECWip 30	ECWip 40	ECWip 50	ECWip 60	ECWip 65	ECWip 70	ECWip 80	ECWip 90	ECWip 100
Torque range (approx.) *	Nm	75-420	80-620	100-940	150-1500	190-1850	250-2450	290-2900	350-3500	440-4300	500-5000	650-6500
Torque range (approx.) *	lbf.ft	55-305	60-540	75-675	110-1190	140-1340	185-1865	215-2135	260-2540	325-3205	370-3730	480-4800
Square drive	B	3/4"	3/4"	3/4"	1"	1"	1"	1"	1 1/16"	1 1/2"	1 1/2"	1 1/2"
Diameter (approx.)	D ₁ mm	41	41	41	54	54	54	54	72	72	72	72
Diameter (approx.)	D ₃ mm	88	88	88	88	88	88	88	98	98	109	109
Length (approx.)	L mm	310	310	310	310	310	310	310	318	318	326	315
Height (approx.)	H mm	249	249	249	300	300	305	305	315	315	345	350
Weight without DMA (approx.)	kg	12	12	12	13	14	14	14	16	16	17	18
Idle speed	rpm	70	40	30	15	14	11	8	7	5	4	3

*) When loosening a bolted connection, up to 20% higher torque may be required (loosening torque). We will gladly advise you in detail.

OLED Display EFCip / ECWip

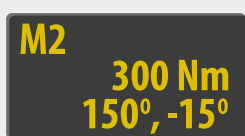
Display bolting programs mode 1 and mode 2

Mode 1 (standard)



Mode 1
Bolting via torque.
Automatic relief according to
pre-set angle degrees.

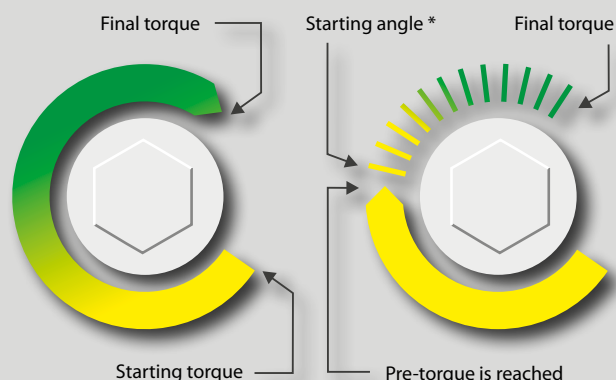
Mode 2 (option)



Mode 2
Torque/angle procedure for high-
quality bolting connections. Display
example of pre-torque, angle and
loosening angle.

Software mode 1 is pre-installed in the basic version.
For user-specific bolting applications or settings, other software suites
are available (see left side "bolting programs").

Chart Mode 1 and Mode 2



* Information on rotational angle setting for torque/angle method.

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

alkitronic® provides all drive technologies.

Extract from our product range:

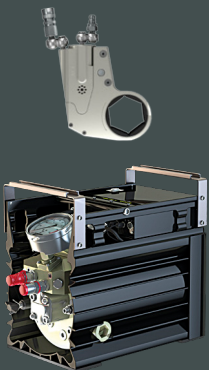
✓ **ELECTRIC**



✓ **PNEUMATIC**



✓ **HYDRAULIC**



✓ **MANUAL**



alkitronic®

YOUR PLUS FOR MORE PERFORMANCE

Increased quality

Premium production
Highest quality materials
Long product life cycles
30 years of experience in bolting technology
Made in Germany – international patents

Increased precision

Precise, customer-specific torques
High repeatability
Reliability in permanent operation
Recordable tightening outputs
Automatic shut-off

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

Better service

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

TORQUE POWER WORLDWIDE

alki TECHNIK GmbH

Development, Production and Distribution of Bolting Systems

Unterlettenweg 4 – 85051 Ingolstadt/Germany – fon +49 841 97499-0 – fax +49 841 97499-90
info@alkitronic.com – www.alkitronic.com