

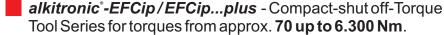
alkitronic EFCip / EFCip...plus electric driven-Torque Tool











alkitronic*-EFCip.... with Protection Art IP 54.

The world novelty of screwing technology with high torques.

alkitronic EFCip Serie - in two versions:

- Series *EFCip* large torque range with **19** selectable **shut-off torques**. Pre-set torque as well as adjusted rotation are displayed via the corresponding light-emitting diodes
- Series *EFCip...plus* Selection of preset screwing programmes (Modes). Input, display and menu operation via an integrated LC-Display.

alkitronic EFCip Serie - technical informations:

- Microcontrolled monitoring and a processor controlled switch-off electronic guarantee precise repeatability of pre-set torque. Repeatable accuracy for switch-off ± 5% for identically soft and hard joints. Speed and torque are being controlled regularly.
- Integrated motor protection: alkitronic®-EFCip, -EFCip...plus with automatic safety monitoring. Permanent operation at the upper limit of the tool is prevented by means of a temperature controlled safety function. Thus the motor is sustainably protected against damages in case of a possible overload.
- Two principles of construction within one tool:

A - swivelling: free joint motor-/operation unit with the torque pick-up (DMA).

- **B** rigid: fixed joint motor-/operation unit with the torque pick-up (DMA).
- One-handed operation via a combined switch for comfortable handling: slow Right-/ Left rotation for safe and precise positioning of tool (tap operation) as well as start of screwing.
- Ergonomic operation concept for screwing functions and torques:
 Display with adjustment of shut-off torques, released angle, finishing-angle tortion etc. including menu operation via the display (functional extent depends on the type of the tool).

alkitronic EFCip Serie - advantages:

- High profitability due to problem-free operation upon any kind of weather- dampness or rain no problem! The construction of the tool is rated for Protection Art IP 54!
- Suitable for all international electric networks (100-253V / 45-66Hz)
- Convincing drive concept:
 - the electric- and frequency controlled brush-free synchronized tool of alki TECHNIK
 - with high torque and excellent efficiency
- Consistent quality of your screwings
- **Low running costs** (maintenance-free and low in wear)
- Highest mounting speed
- **Highest precision:** exact shut-off when reaching required torque. Centrifugal force of motor and gearing does not impair shut-off torque
- Exact shut-off torque also in operation with emergency unit
- Safe and simple tool operation due to an ergonomic operation concept



EFCip / EFCip...plus

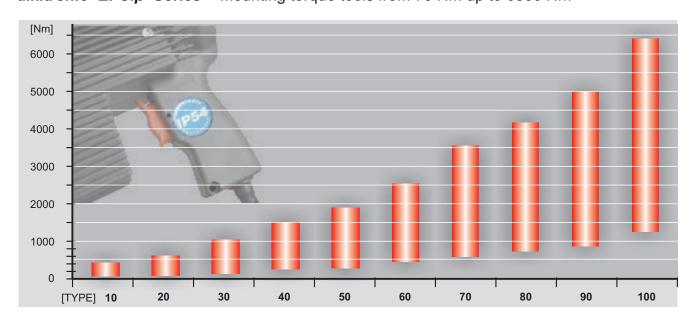




Overview of the Torque Ranges

EFCip / EFCip...plus

alkitronic*-EFCip Series - Mounting torque tools from 70 Nm up to 6300 Nm



alkitronic EFCip...plus





Comfortable and high quality screwings with the compactelectric driven -torque tool **alkitronic EFCip...**plus

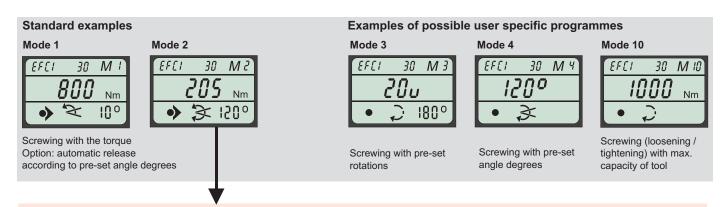
<u>Special features:</u> Selection of screwing programmes (Modes) with systematic parameter settings, i.e. for desired **torque**, **releasing angle**, **pre torque**, **finishing-angle tortion** etc. (see the following examples).

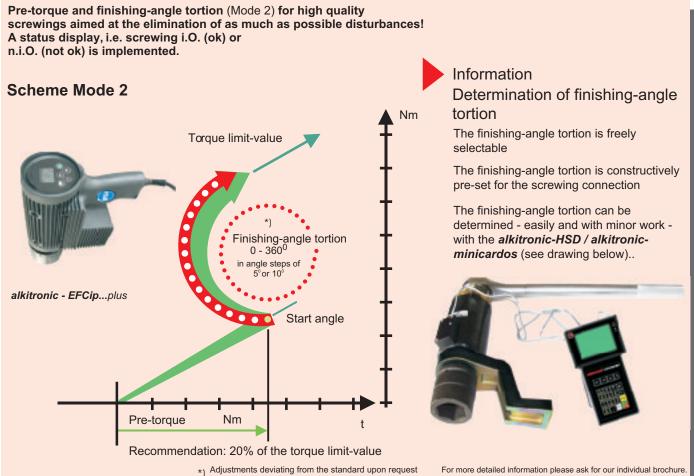
Input, display and menu operation via an integrated LC-Display.

The Programmes (Modes)

The user may choose between 2 programmes within the basic equipment.

For user specific pre-setting, i. e. frequently arising joints, further modes can be installed optionally.

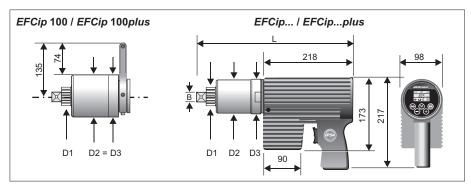




Technical Details alkitronic EFCip / EFCip...plus

Annotations for Series EFCip:

Torque ranges are in accordance with the flow chart. The following torque ranges are theoretical standard dates based on an aligned tool electronic. Depending on soft and hard joints M_D-deviations are possible. Deviations from calibrated values specific to each tool may also be possible.



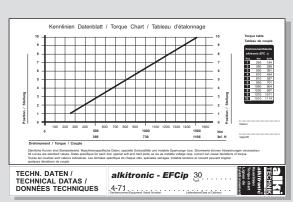
Series EFCip/EFCipplus	Туре	EFCip 10	EFCip 20	EFCip 30	EFCip 40	EFCip 50	EFCip 60	EFCip 70	EFCip 80	EFCip 90	EFCip 100
Torque range*	Nm	70-400	80-600	150-1000	250-1500	300-1800	450-2500	600-3500	800-4200	1000-5000	1300-6300
Square drive	В	3/4"	3/4"	3/4"	1"	1"	1"	1"/1 1/2"	11/2"	11/2"	11/2"
$ Diameter \ D_1 approx \ .$	mm	41	41	41	54	54	54	72	72	72	72
Diameter D ₂ approx.	mm	85	85	85	85	85	85	98	98	123	123
Diameter D ₃ approx.	mm	88	88	88	88	88	88	98	98	123	123
Length	Lmm	330	330	330	382	382	388	400/406	406	428	436
Weightwithoutsupportapprox	. kg	9,0	9,0	9,0	10,0	10,0	11,0	13,2	13,2	17,5	18,5
Idle speed approx.	rmin ⁻¹	76	38	24	15	13	12	9	7	6	4
Prices	EUR										

^{*} At maximum load please take into consideration an available reserve of 20 % for loosening torques. Attention: A safe and stable support must be provided in order to transfer the reaction moment.

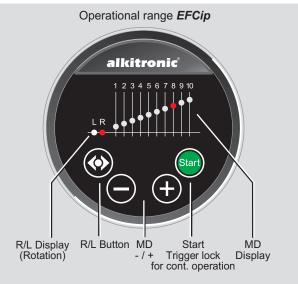


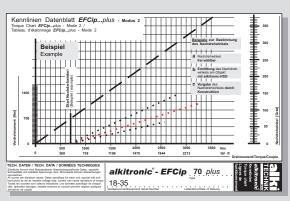
alkitronic EFCip and EFCip...plus with CE-Certification. Protection Class I. Protection Art IP 54

Electrical Data: Voltage 100 - 253 V, Frequency 45 - 66 Hz, Capacity approx. 2000 W



Example: Flow Chart EFCip for determination of torque values depending on the selected MD Position (Pos.)





Example: Flow Chart *EFCip...plus* for determination of torque values depending on the finishing-angle tortion (Mode 2).





Product overview:

alkitronic

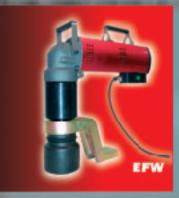
- Continuously rotating screw syster
 Drive manual, electric and pneumatic
- Central gearing, tangential gearing, radial gearing
- **Quality Management for Screwed Joints**



- hydraulic screwing- and drive systems.
 Drive manual, electric and pneumatic











alkitechnik reserves the right to change especifications without prior notice.



