

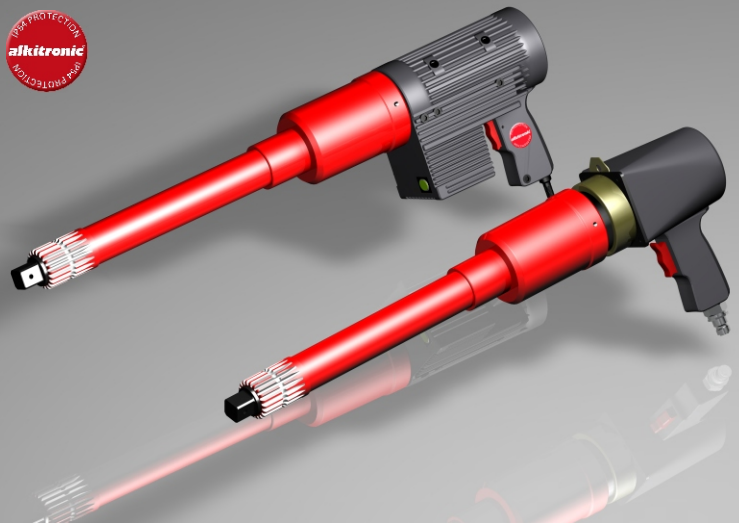
## Product News N-Tools

### Application and Advantages

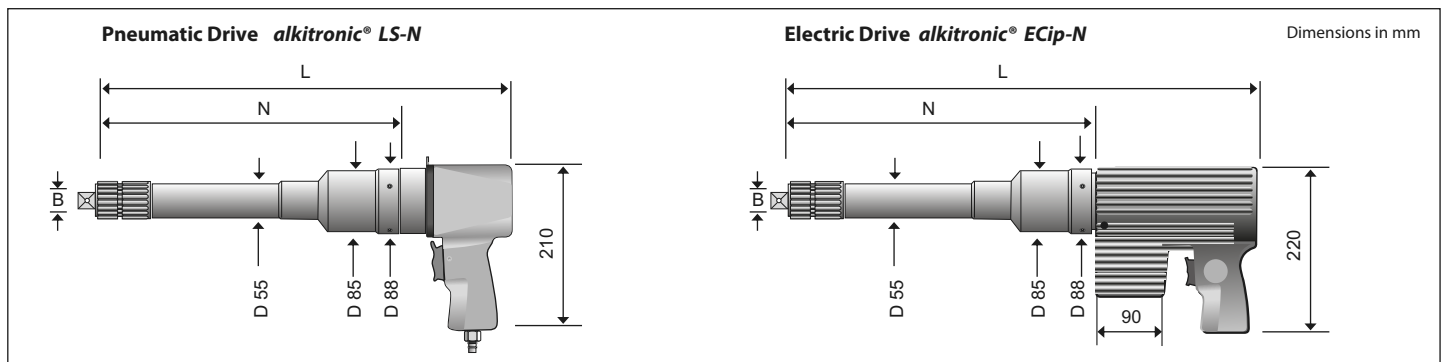
Pneumatic and electric torque multipliers for seated bolting of heavy vehicles (mining industry). Continuously rotation by tightening and loosening bolted connections. Torques up to 3.000 Nm / 3.500 Nm, dependent on typ.

- **Economic, safe operation.**  
No weather-related costly downtime
- **Comfortable operating.** The motor unit can be rotated 360 degrees. One handed operation with CW/CCW.
- Heavy duty, rugged housing made of cast aluminum
- Electrically powered models with **protection IP54:**
- Maintenance-free brushless synchronous motor
- **Precise shut-off** torque and constant torque accuracy in all international power network and by operation with mobile power units
- Air powered models:  
Ideal for use in **explosion-proof working environment.**  
**ATEX** approval on request
- **World's proven** reliable pneumatic drive motor

Schutzart IP54



### Technical Data



| Models N-Tools                 |        | Drive pneumatic | Drive elektrik |
|--------------------------------|--------|-----------------|----------------|
| <b>Typ- N</b>                  |        | LS 250 N        | ECip 220 N     |
| Torque range approx.*          | Nm     | 1180-3460       | 510-2915       |
|                                | ft.lbs | 869-2553        | 376-2150       |
| Square drive                   | B      | 1"              | 1"             |
| Length L                       | mm     | 490             | 560            |
| Length N **                    | mm     | 350             | 350            |
| Weight without support approx. | kg     | 12,6            | 13,6           |
| Idle speed approx.             | U/min  | 9,8             | 9,8            |

\*) When loosening a bolted connection, up to 20% higher torque may be required (loosening torque). We will gladly advise you in detail. \*\*) Standard length, other extensions upon request

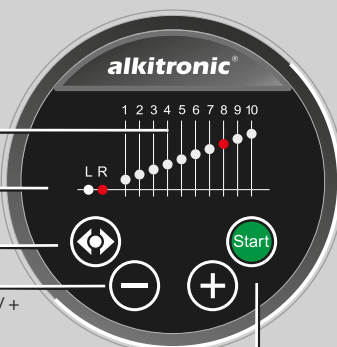
**Models ECip-N:** Protection class IP 54, Input AC 100 V - 253 V, frequency 45 Hz - 66 Hz  
Power max. 2kW. Repeat shut-off accuracy  $\pm 3\%$  for the same bolting application

**Models LS-N:** Ideal operation by a pressure of only 2-7 bar and a volume flow of 10-15 L/s



#### Operation panel ECip-N

- Display torque pre-settings according index datasheet or torque table,
- LED Indication CW/CCW direction
- CW/CCW direction setting
- Torque values setting - / +
- Start / continuous operation



#### Accessories LS-N

Maintenance unit with filter, regulator and oiler as well as air hose 5 m long including all connections. To secure a long life of motor to put some oil from time to time is recommended.



## alkitronic®

TORQUE POWER WORLDWIDE

alkitronic® products  
Made in Germany by

alki TECHNIK GmbH  
Development, Production and  
Distribution of Bolting Systems

Unterlettenweg 4  
D-85051 Ingolstadt

fon + 49 841 97499-0  
fax + 49 841 97499-0  
info@alkitronic.com  
www.alkitronic.com