

## ADVANTAGEOUS PNEUMATIC REPLACEMENT

The SMELA liteECO® series are the most compact electromechanical alternative to pneumatic short-stroke cylinders due to their telescopic concept of motor and mechanics. This makes them ideal for the linear movements often required in production lines, machine tools or packaging systems.

## HOW IT WORKS

A servo motor with a high-resolution positioning sensor integrates a configurable thread pairing in a new unconventional way. This enables linear movements from simple to complex profiles: for fixing, adjusting, locking or driving any movement profiles. The highly efficient motor not only **saves more than 75% energy** compared to pneumatic systems. The smart arrangement of the mechanics ensures **installation space savings of up to 80 %** compared to existing electrical solutions. In addition, the liteECO® series offers the possibility of a quick and easy refurbishment. The replacement of worn mechanics helps the drives to achieve several life cycles: sustainable, cost-saving and resource-saving.

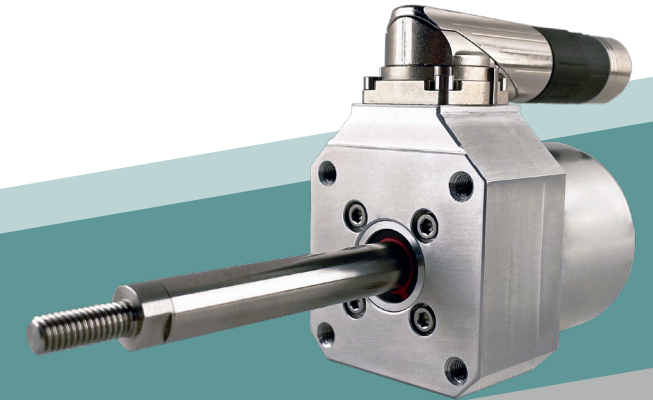
## NEW FEATURES

The new liteECO® BASE series integrates all the advantages of its predecessor LE48 and supplements them with the essential features for high requirements in industry, especially the automotive and food industries. In addition of sealing to IP65 protection class, the basic version now features M15 round connectors with a self-locking quick-connect system. Also new is the scalability of the maximum stroke in steps of 45, 85 and 115 millimeters, a centering collar on the flange and the option of mounting swivel and adapter flanges on both the front and rear of the actuator.



### Linear actuators liteECO® BASE series

The most compact electric alternative to pneumatic



**powerful.  
compact.  
independent.**

**SMELA GmbH**

Liebknechtstraße 55 | DE-39108 Magdeburg

Tel.: +49 (0)391 99 08 2100

info@smela.com | www.smela.com

# Variants & Advantages

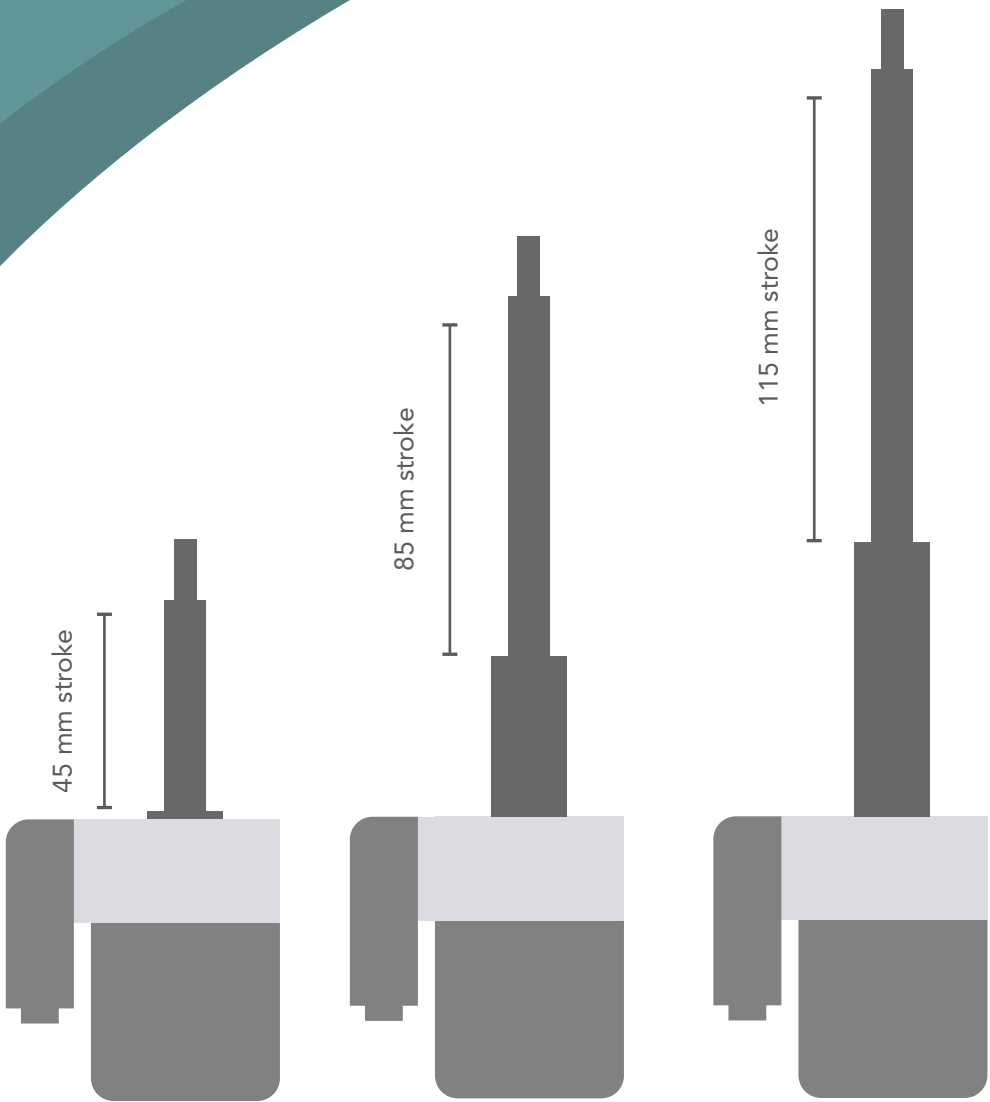
of the liteECO® BASE actuators

## Maximum utilization of the installation length

with only 32 mm offset to the movable stroke

Flange width 50 mm  
Mounting grid 42 mm  
Flange height 78 mm (incl. connector contour)

Weight from 520 g  
Protection class IP65



### HIGH FORCE AND DYNAMICS

up to 750 N or 2.000 mm/s (configuration-dependent)



### SPACE SAVING

up to 80 % installation space savings compared to conventional electrical solutions



### ENERGY SAVING

up to 75 % energy savings compared to pneumatics



### INDEPENDENT

due to controllability via different motion controllers (manufacturer-independent)



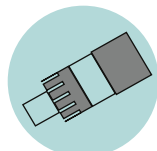
### FAST COMMISSIONING

and parameterization of motion profiles



### LONG LIFE TIME

due to closed and sealed plunger

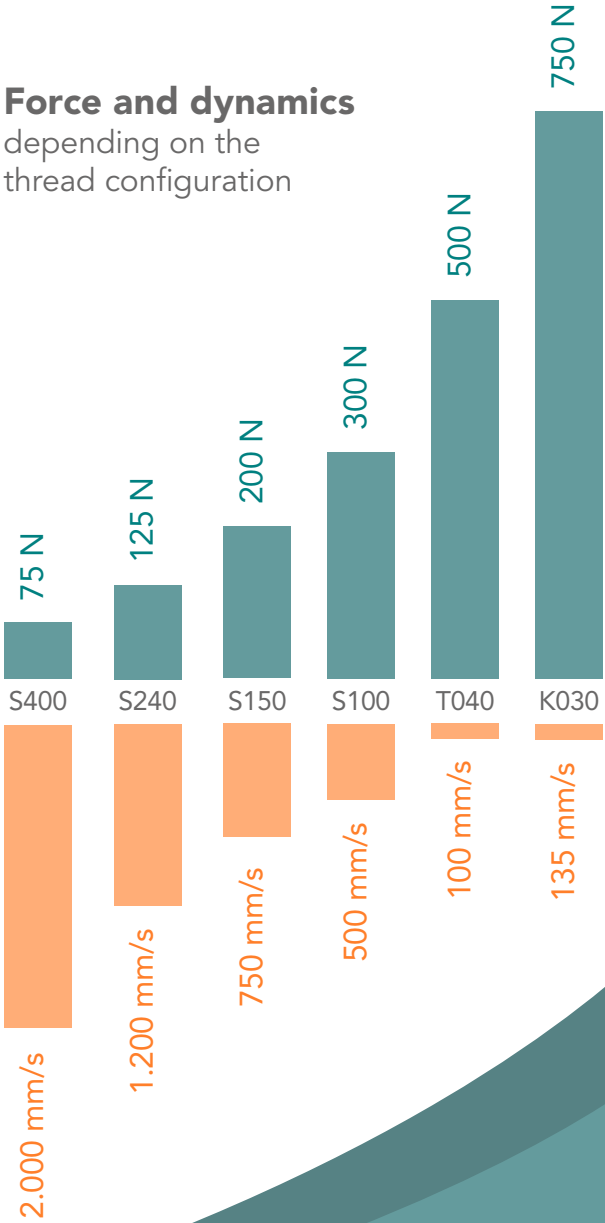


### SINGLE CABLE SOLUTION

combined connection for power and sensor signals

## Force and dynamics

depending on the thread configuration



For further informations, datasheets and configurations please contact our technical sales team: [sales@smela.com](mailto:sales@smela.com)  
[www.smela.com](http://www.smela.com)