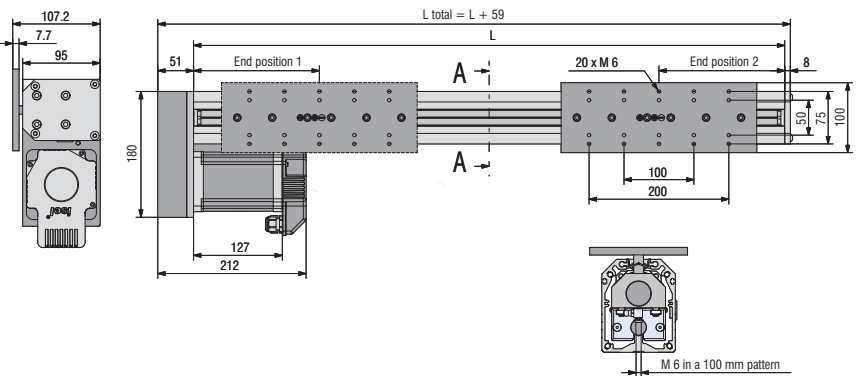


Linear Units LES

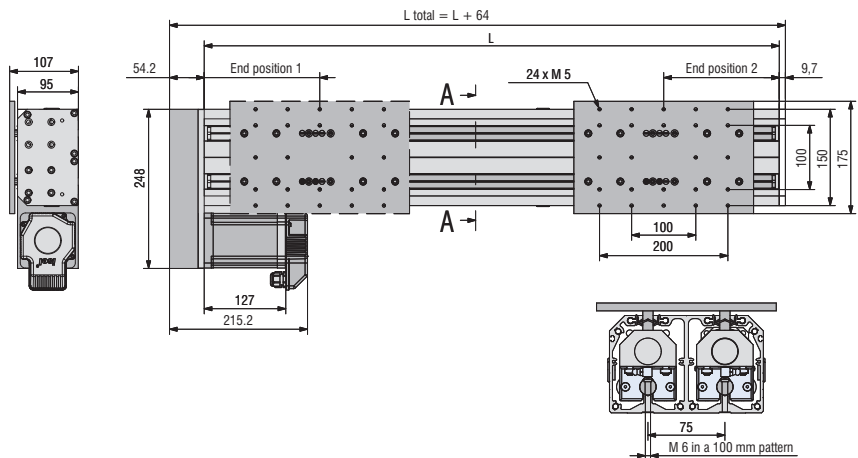
with Ball Screws $\varnothing 25 \text{ mm}$

Dimensioned Drawings

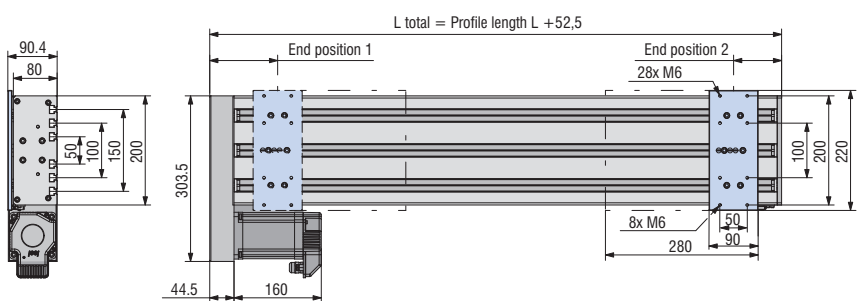
LES 10



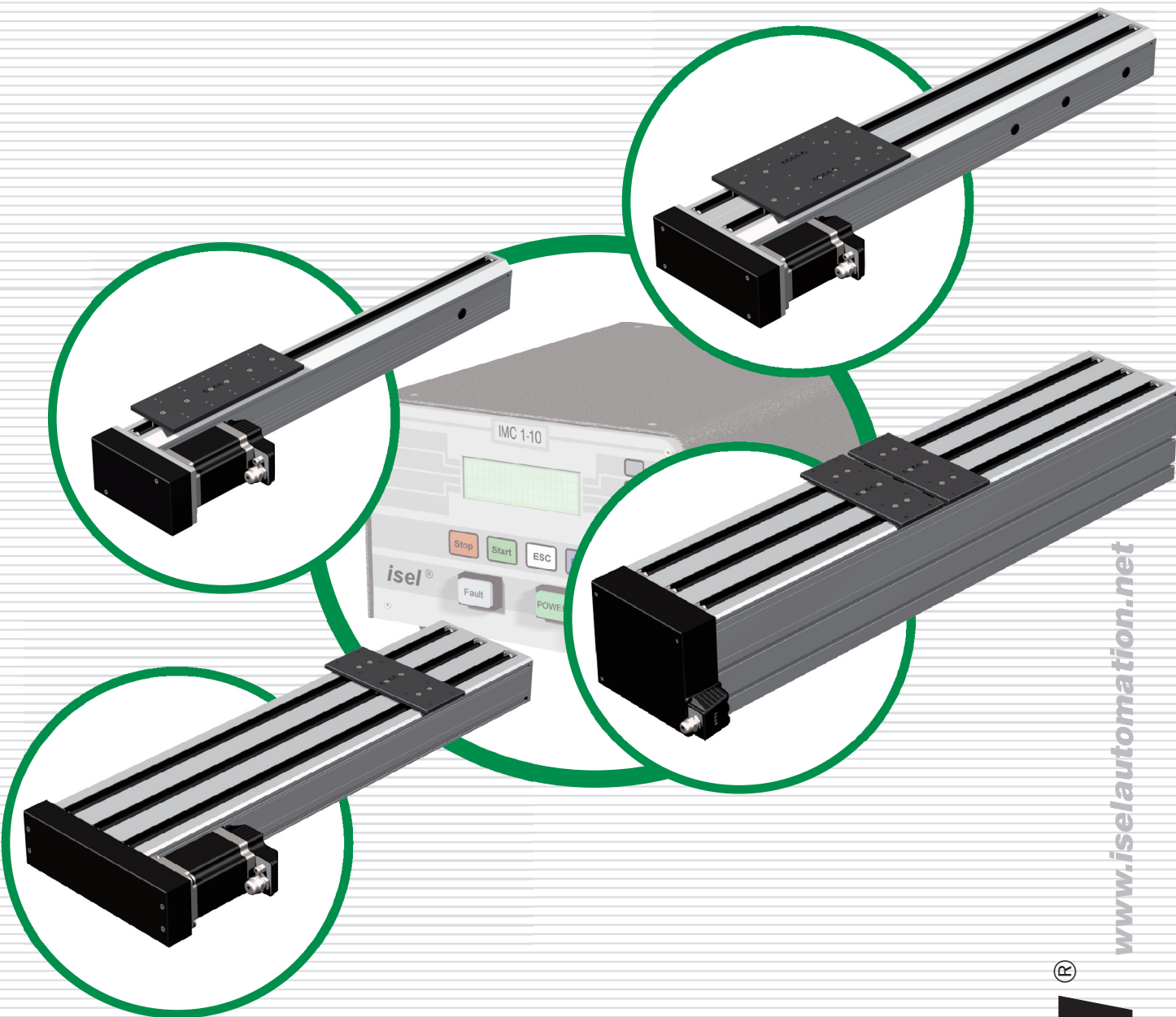
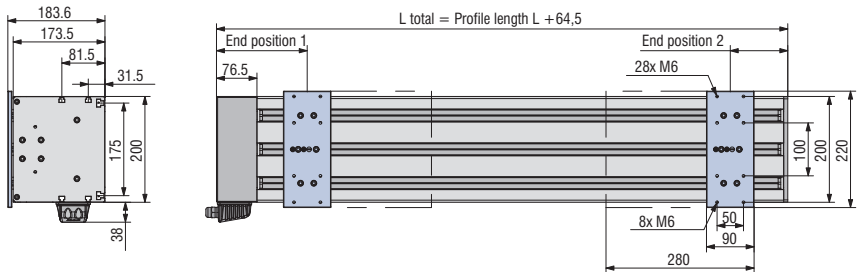
LES 11



LES 30



LES 31



Linear Units LES with Ball Screws Ø 25 mm

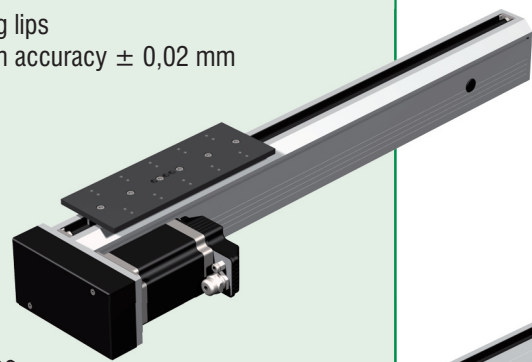
Characteristics

Common Characteristics

- Aluminium bearing carriage IWS 1/70
- Adjustable to be free from play
- Lubrication facility
- Ball screw Ø 25 mm
- Profile sealing by abrasion-resistant sealing lips
- With 2 limit or reference switches, repetition accuracy $\pm 0,02$ mm

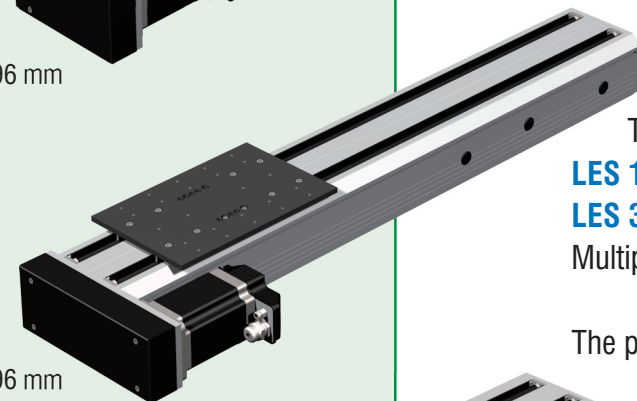
Linear Unit LES 10 with Ball Screw

- Aluminium shaft carrying profile W 75 x H 95 mm, anodized
- With one precision steel shaft Ø 16 mm
- Ball screw with 10 mm pitch
- Bottom mounting on an even surface by means of M6 threads
- Profile lengths L 996 / 1,496 / 1,996 / 2,496 mm



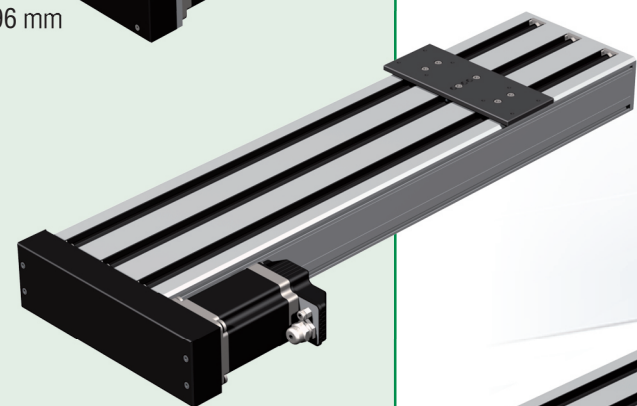
Linear Unit LES 11 with Ball Screw

- Aluminium shaft carrying profile W 150 x H 95.5 mm, anodized
- With two precision steel shafts Ø 16 mm
- Ball screw with 10 mm pitch
- Bottom mounting on an even surface by means of M6 threads
- Profile lengths L 996 / 1,496 / 1,996 / 2,496 mm



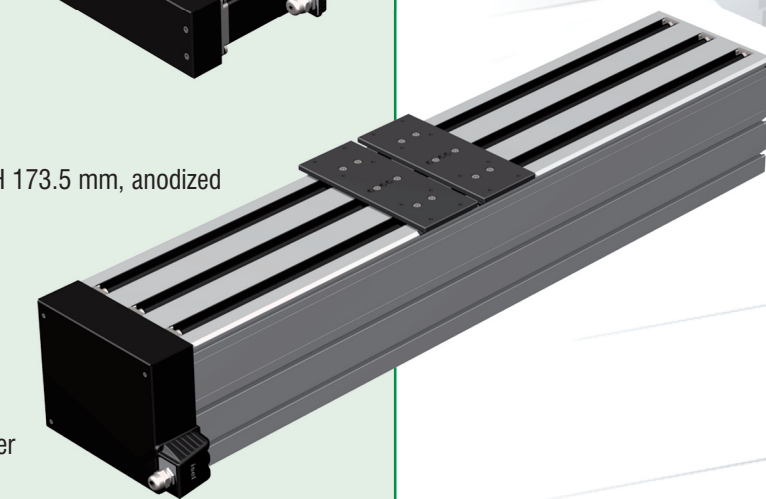
Linear Unit LES 30 with Ball Screw

- Aluminium shaft carrying profile W 200 x H 80 mm, anodized
- Clamping surface and profile bottom trimmed by surface milling
- Ball screw with 10/20 mm pitch
- With two precision steel shafts Ø 16 mm
- Bottom mounting or lateral mounting on an even surface by means of thread rails M 6
- Profile lengths L 996 / 1,496 / 1,996 mm



Linear Unit LES 31 with Ball Screw

- Aluminium shaft carrying profile W 200 x H 173.5 mm, anodized
- Clamping surface and profile bottom trimmed by surface milling
- With two precision steel shafts Ø 16 mm
- Ball screw with 10/20 mm pitch
- Profile lengths L 996 / 1,496 / 1,996 mm



Options: (LES 10, 11, 30, 31):

- Special lengths in a 100 mm raster

(LES 30, 31):

- 4 bearing carriages IWS 1
- 2 or 4 steel carriages ILS 1
- Complete with single axis controller
- Multiple axis controller in control box

Linear units of the **LES** type are linear axes with spindle drives that have been used for many applications and branches for years. Designing engineers value these linear units which are pre-finished modules, preferably used in factory automation, handling technology as well as in light machine construction. These linear axes offer almost always standard solutions without surcharge due to many configuration possibilities. This way they leave enough liberty for the machine- and plant manufacturer when interpreting his construction ideas. Aside from short-term available standard lengths, requested length measures are designed according to customer's specifications. Even special motor connections as customer request are available.

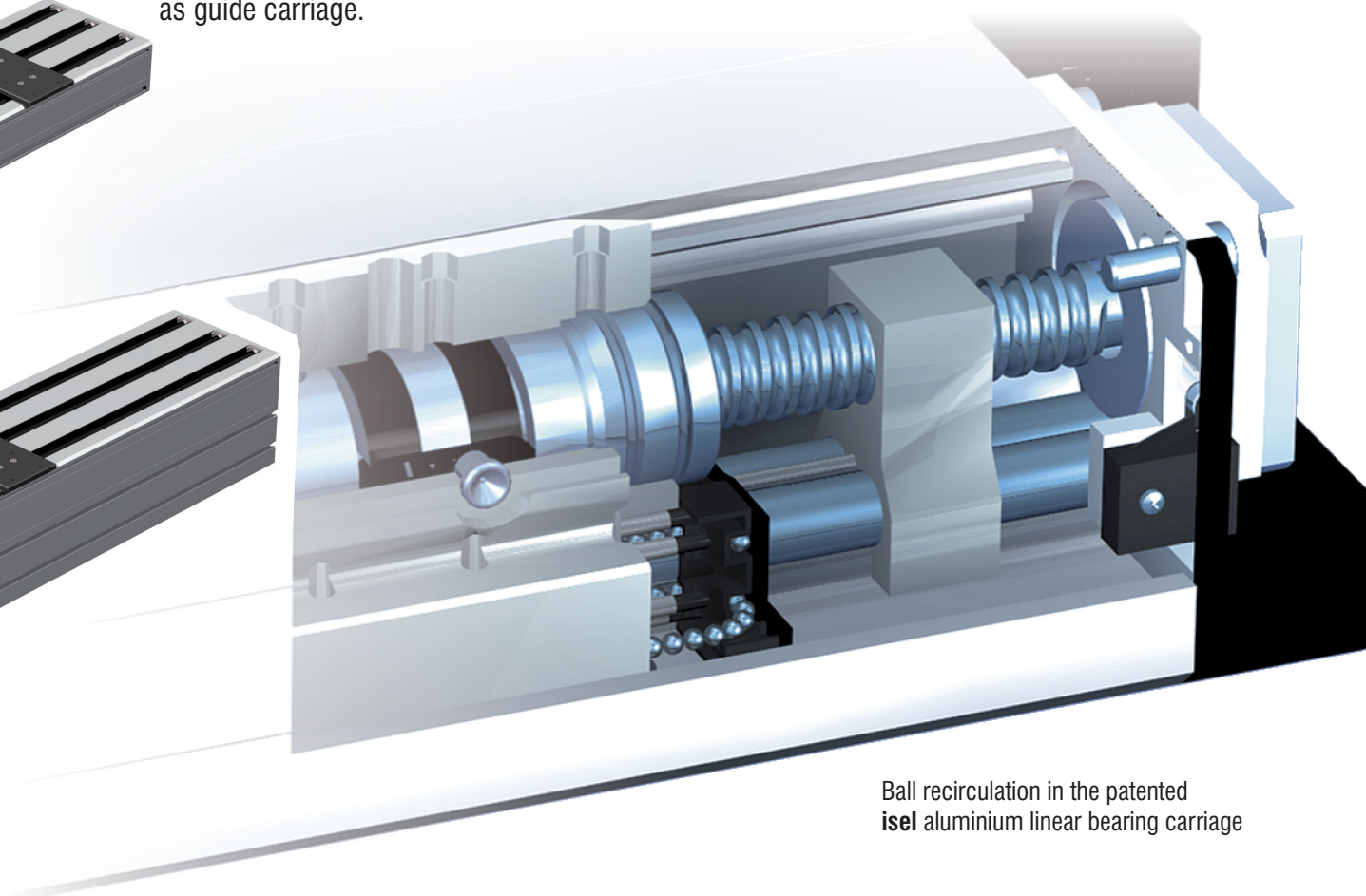
Base for all linear units of the **LES** type are anodized, bending-resistant aluminium special profiles with precision steel shafts for the necessary guiding tasks. The feed movement is done by ball screw drives of 25 mm diameter and 10 mm pitch, which offer an extremely high durability and allow spindle lengths of up to 2 m. High statistic and dynamic load ratings are reached with the 16 mm strong precision steel shafts for the linear guides. Powerful servo motors are used as motor drives.

The four different sizes are:

LES 10 = 75 x 95 mm, **LES 11** = 150 x 95.5 mm, **LES 30** = 200 x 80 mm and **LES 31** = 200 x 173.5 mm

Multiple constructive designs are possible. It is possible to use the **LES** linear unit horizontally and vertically.

The patented isel aluminium carriage with ball recirculation is used as guide carriage.



Ball recirculation in the patented isel aluminium linear bearing carriage

Combination examples

