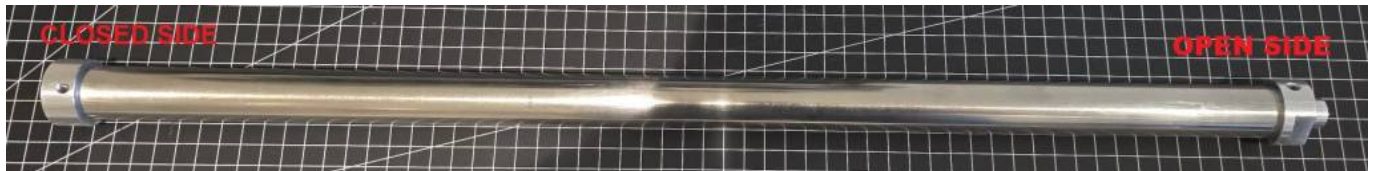


Installation procedure

How to mount the rod inside the motor

The slider of the motor is supplied in a separate carton tube to avoid damage during transportation. This slider has an end stop without threaded holes (male or female) on the closed side.



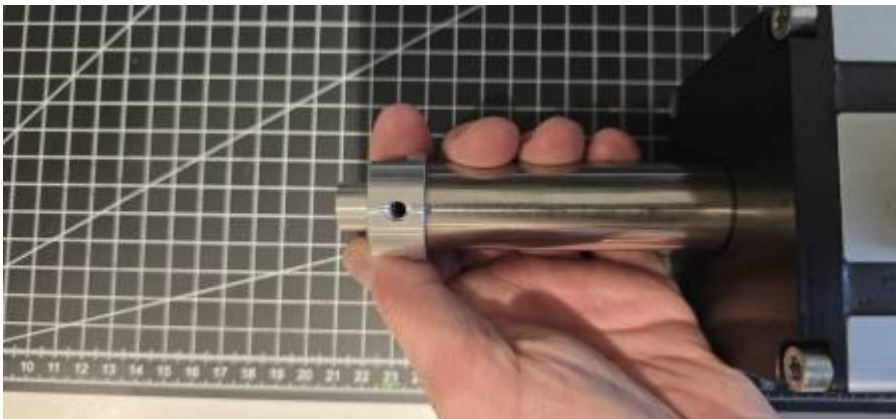
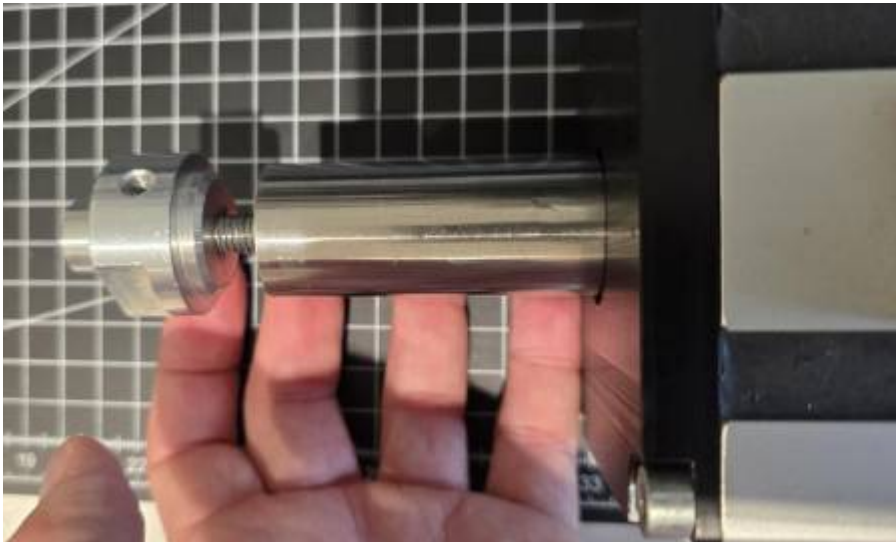
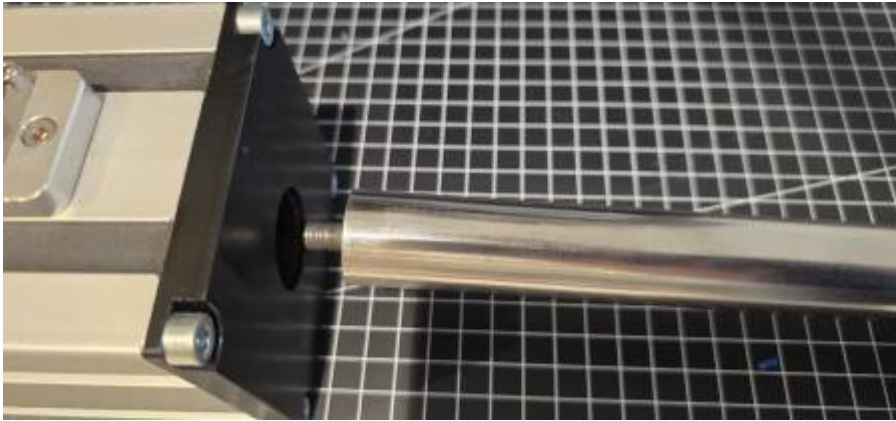
To install, the customer must open the open side; the grub screws must be unscrewed.



Then follow these steps:

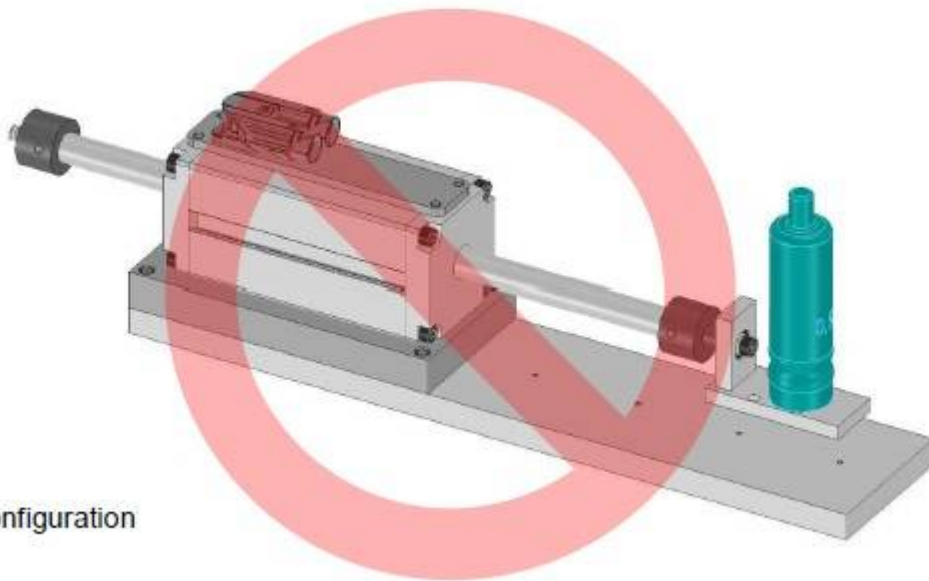
Item
Dismount completely the end cap
Insert the slider inside the motor
Mount again the end stop on the internal screw of the slider
Close completely the end cap, reaching the stainless steel rod end
Screw the grub screws to prevent the end cap from rotating



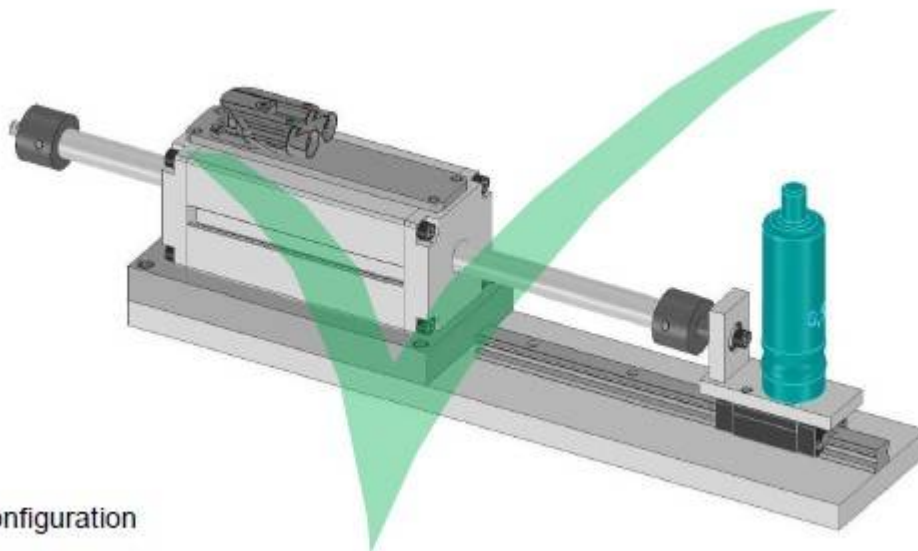


Interaction with the load

The slider motion is based on polymer plain bearings. The motor slider can only sustain limited radial loads, so the payload must be supported through a proper linear guide. Moreover, coupling the shaft to the payload by spherical bearings, articulated joints, or equivalent parts is recommended, in order to transmit only the linear thrust and to compensate any radial misalignment.



Wrong configuration



Correct configuration

Magnetic fields

The slider of the green drive linear motor is fitted with strong permanent magnets that are not magnetically shielded ($B_r \approx 1.2 \text{ T}$). However, the magnetic induction collapses within 50 mm, so there is no significant field outside the machine structure.

Vibrations and shocks

The stator of Green Drive series tubular linear motors can sustain shocks up to 5 G (49 m/s^2) and vibrations up to 2.5 G (24.5 m/s^2).

Noise emission

The noise emission of synchronous linear drives can be compared with conventional inverter-operated feed drives. Experience has shown that the noise generation mainly depends on:

Item
the employed linear guides (velocity-related travel noise)
the mechanical design (following cover, etc.)
the settings of drive and controller (e.g. switching frequency)

A generally valid specification is therefore not possible.

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