

Transport and Handling

Linearmech electromechanical actuators are very robust products, since they are structurally built with metallic components; nevertheless, motors provided with their protections, stroke end switches and encoders require a particular care and attention in packaging and during transport and handling.

Therefore, we recommend to handle the actuators using their supporting points, such as the housing, and not the stroke end devices or motor. Finally, we recommend not to bang the actuators one against the other or against machine surfaces. The electric components of stroke end switches, encoders and motors must be handled with care!

Storage

During storage, electro-mechanical actuators shall be protected against atmospheric agents and dust or other pollutants settling on the push rod.

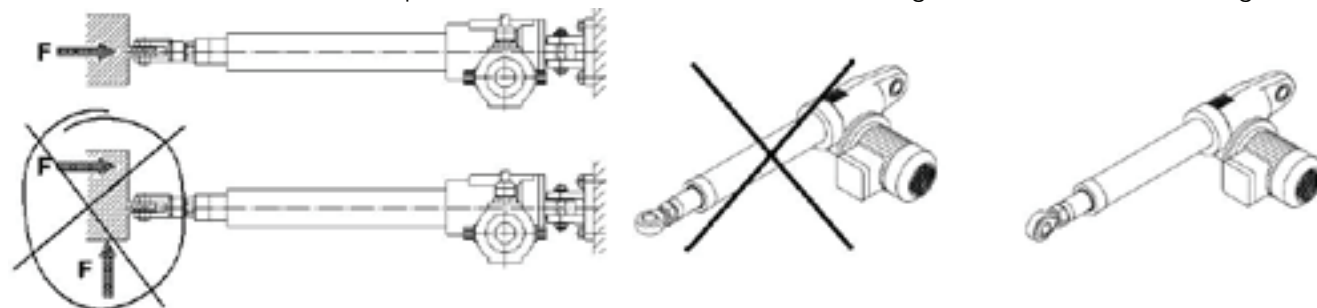
We recommend to store the products in environment temperature range within (-10 ... +40) °C

Installation

Linear actuators must be installed to work with push or pull axial load only.

Lateral and radial loads are not permissible.

The front and rear fixing attachments must be aligned!



Ball joint front attachment is recommended in case the alignment of front and rear fixing points cannot be guaranteed. An incorrect installation can cause loss of power, malfunctioning, noise and lubricant leakage.

The actuator minimum retracted length (L_c) and maximum extended length (L_a) are the operation limits.

Make sure that the application does not require a stroke length longer than the one fixed by these limits. The use of the actuator exceeding its max. extended length (L_a) and min. retracted length (L_c) and the provided internal protections, cause collision against the mechanical stops with consequent possible damage of screw and bronze nut.

Commissioning and use

Linearmech linear actuators are supplied with long-life lubricant and therefore maintenance-free.

Before activating the actuator, the following checks must be carried out:

- Verify the motor shaft turning direction (motor wiring connection) and the related push rod travelling direction.

Wires connection related to the push rod travelling direction is shown on page 69, in the section concerning electric motors wires connection.

- Verify the stroke end switches position: the minimum limit L_c nor the maximum limit L_a can be exceeded.
- Make sure that the electric motor and the stroke end switches are connected correctly and that the right voltage is used.

During commissioning and tests, do not exceed the working conditions stated for each actuator as allowed duty cycle in % over 10 minutes.

Any misuse can cause over-heating and unintentional premature damaging.

For further explanations and in case of doubts please contact Linearmech S.r.l.

The compliance failure of any recommended and suggested instructions for handling, storage, installation, commissioning and use of the product implies the immediate lost of warranty.