Maglift - Vertical counterbalance

This landing page is the entry point for the **Maglift** — the magnetic spring for vertical counterbalance. It compensates the gravitational force in vertical applications.

In vertical applications, when the linear motor is not powered, the linear axis can fall due to gravity. Using Maglift, the gravitational force is counterbalanced and the linear motor remains in a steady state.



Characteristics

Item
Constant force on the stroke
Stroke up to 290 mm
Forces: ±10% tolerance
No electronic control needed, no compressed air
Especially designed for compensating gravitational force in vertical applications
For high dynamic movements
Push or pull movement possible (symmetrical operation)
A set of accessories for fixing, in combination with NILAB linear motors

What you will find here

Topic	**Page**
Force profile	Force profile

Dimensions	Dimensions
Mounting accessories	Accessories for mounting

How to select the Maglift

- Choose the Maglift size according to the moved mass and the required counterbalance force. - The force is constant over the stroke with a ±10% tolerance. - The Maglift requires no electronic control and no compressed air. - It is suitable for high-dynamic movements and can operate in push or pull (symmetrical).

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