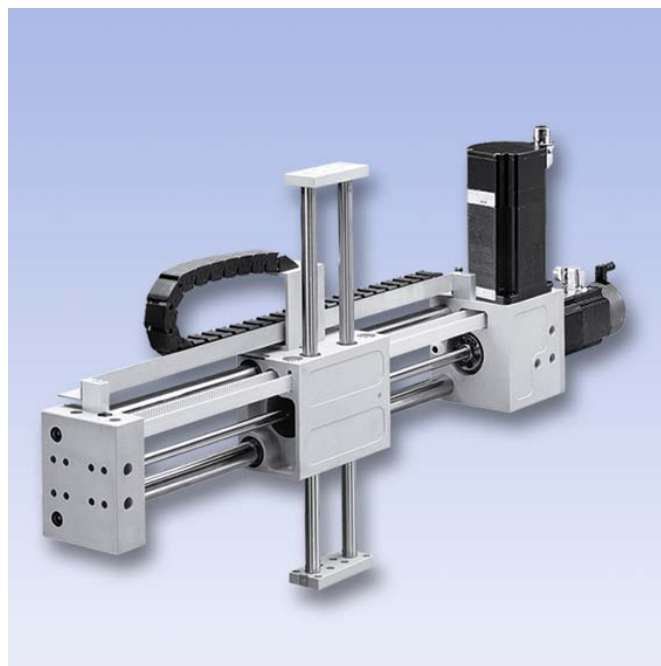


For quick pick and place applications it is not optimal (weight wise) to have to move the axis body and the heavy drive motors, where often, the load to be positioned is only a few grams.
When handling small components, usually a short cycle time with superior dynamic properties and therefore a heavy drive is required.
An innovative solution to this dilemma is promised with the **MAXD2** linear positioner.

Since both motors are fixed, no unnecessary weight has to be moved with the axis. Combining it with an additional light weight cantilever axis results in an astonishing dynamic drive profile, harmonious movement and therefore a short cycle time.

As standard this axis is driven by Schneider Electric 3-phase stepping motors.




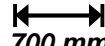
Features

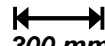
- Heavily reduced dead weight, due to the motors being fixed, therefore it has superior dynamic properties in the positioning process.
- Thin construction allows many positioning tasks to be carried out in the tightest of spaces.
- High moment stiffness with high positioning accuracy.
- High driving torque permissible up to 12Nm

Versions


Type key		Description
MAXD	2	
	2	Portal construction
MAXD		Linear positioner

Maximum load 
5 kg

Maximum stroke
X-direction 
700 mm

Z-direction 
300 mm

Maximum speed 
5m/s

Maximum driving torque 
12 Nm

Specification

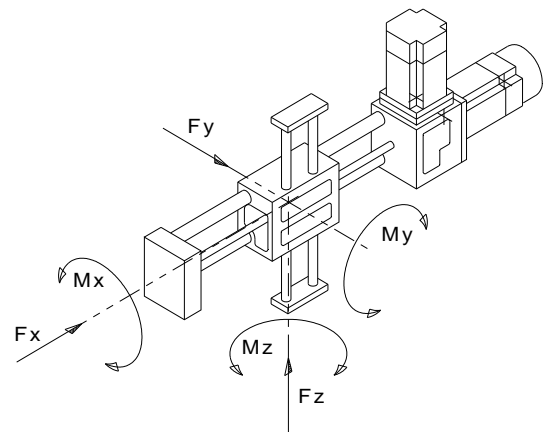
	MAXD2	
Max. load	5 kg	
Dead weight (zero stroke) (without the motor)	15.9 kg	
	X	Z
Max. stroke	700 mm	300 mm
Max. speed ①	5 m/s	5 m/s
Repeatability	± 0.1 mm	± 0.1 mm
Max. torque at the driving shaft	12 Nm	12 Nm
Stroke per revolution of the driving shaft	100 mm	100 mm
Effective diameter	31.83 mm	31.83 mm
Power transmission	Gearwheel	Spline shaft
Moving weight zero stroke per 100 mm stroke	6,18 kg ② 1,1 kg	1,5 kg 0,5 kg

① load and stroke dependent

② weight of the z-axis with 0 mm stroke included

Maximum Forces and Torque

		MAXD2
Max. forces	Fy	180 N
Max. torque	Mx My Mz	54 Nm 30 Nm 14.5 Nm



Motors for MAXD2

3-phase stepping motors	BRS3AC	BRS3AC + break
Max. torque	12 Nm	12 Nm
Motor weight	8 kg	8 kg

