Positioning system DLVM 200

174



Function:

This unit consists of a rectangular aluminium profile with 2 integrated roller guides. The linear motor DLVM unit is based on the principle of a linear, synchronous AC motor.

The guiding profile is fitted with permanent magnets as stator (secondary part). The carriage is fitted with the actuator (primary part). The magnetic attraction causes a force between carriage and guiding profile also in the absence of current. This force can be used for the initial tension of the bearings. Several carriages (primary parts) can be driven independently on one guiding profile.

Fitting position: Carriage mounting: By T-slots. Unit mounting: **Carriage support:**

As required. Max. length 6.000 mm without joints.

By T-slots and mounting sets. The linear axis can be combined with any T-slot profile. In the standard version, the carriage runs on 8 rollers which can be adjusted and serviced at a central servicing

position. For longer carriages the number of rollers can be increased.

Repeatability ± 0,05 mm. Repeated accuracy max. ± 0,05 bis 4.000 mm, ± 0,1 >4.000 mm.



Rost frei

Modultechnik

10.1 4

f = deflection

L = free length

E = elastic modulus 70000

I = second moment of area

F = load

(mm)

(N)

(mm)

 (mm^4)

 (N/mm^2)

Positioning system DLVM 200







*For slide nuts refer to chapter 2.2 page 2

Increasing the carriage length will increase the basic length by the same amount.

Size	Basic length L	A	в	с	D	E	F	G	н	J	к	M for	N for	Р	Q	R	s	T for	U	Basic weight	Weight per 100 mm
DLVM 200	602	197	205	140	15	224,5	50,5	42,5	15	15,5	54,5	M 8	M10	15	260	240	25	M8	198,5	39,4 kg	2,8 kg

175

Dimensions (mm)

1500 Basic length + stroke = total length

DLVM 200 0 0 0 0 0 0 1 01500

Pos. 1 2 3 4 5 6 7 Sample ordering code: DLVM200, 898 mm stroke.



