Linear system **DLVZ 120, 160**

INTERNAL BELT DRIVE

- \bigoplus independent installation position
- SPECIAL DRIVE VERSION
- ₩ SPACE SAVING





Function:

This unit consists of a rectangular aluminium profile with 2 integrated roller guides. The carriage is moved by a belt drive. Belt tension can be readjusted by a simple screw adjustment device in the carriage. This device can also be used for symmetrical adjustment of two or more linear units running parallel. The openings of the guide body are sealed with 3 stainless steel cover bands to protect the guide from splash water and dust. Alternatively, it can also be supplied without cover bands.

Fitting position: Carriage mounting: Unit mounting: Belt type: Carriage support: As required. Max. length 3.000 mm without joints.

By T-slots.

By T-slots and mounting sets. The linear axis can be combined with any T-slot profile. HTD with steel reinforcement, no backlash when changing direction, repeatability \pm 0,1 mm. 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.

Forces and torques

Size	DLVZ 120		DLVZ 160	
Forces/Torques	static	dynamic	static	dynamic
F _x (N)	894	800	1000	840
F _v (N)	1100	900	3000	2000
F _z (N)	1250	1000	3500	2800
M _x (Nm)	150	125	400	320
M _v (Nm)	140	120	360	300
M _z (Nm)	100	90	180	150
All forces and torques relate to the following:				
existing values Fy Fz	Mx	My	Mz <1	
table values Fy _{dyn} Fz _{dyn}	Mx _{dyn}	My _{dyn}	Mz _{dyn}	
No-load torque				
Nm	1,4		1,8	
Speed				
(m/s) max	3		4	
Tensile force				
permanent (N)	900		1000	
0,2 s (N)	1000		1150	
Geometrical moments of inertia of aluminium profile				
l _x mm⁴	6,6x10 ⁵		22,2x10 ⁵	
l _v mm⁴	38,6x10 ⁵		122,0x10 ⁵	
E-Modulus N/mm ²	70000		70000	

For life-time calculation of rollers use our homepage.

Modultechnik

Rost frei

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Dimensions (mm)

137

 $\dot{\mathbf{\omega}}$



Sample ordering code:

DLVZ 160 with belt connection right, internal profile with cover bands, standard carriage and 4 flush mounted shafts, 1090 mm stroke

