Linear system DLZZ 160, 200



BELT DRIVE WITH TWO SEPARATELY DRIVEN CARRIAGES



Function:

This unit consists of a rectangular aluminium profile with 2 integrated roller guides. The carriage is moved by a belt drive. Each carriage can be moved separately by its own drive. This unit has twin pulleys, which run on separate bearings, and two independent, parallel drive belts, one for each carriage. The openings of the guide body are sealed with 3 stainless steel cover bands to protect the guide from splash water and dust.

Fitting position: Carriage mounting: Unit mounting: Belt type: Carriage support: As required. Max. length 4.000 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.

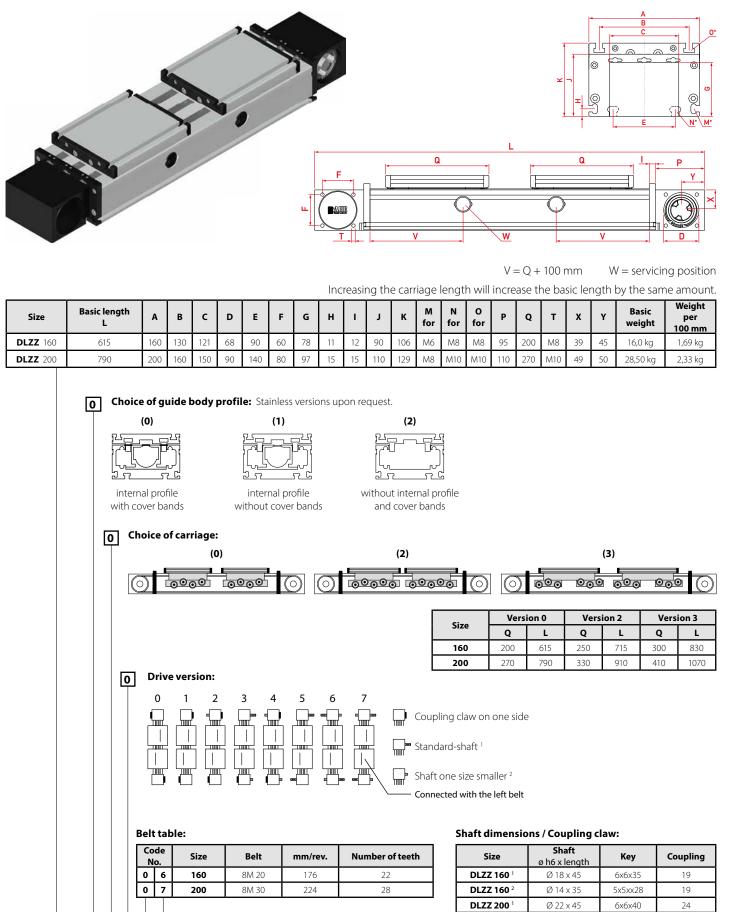
Forces and torques	Size	16	160		200	
· · · · · · · · · · · · · · · · · · ·	Forces/Torques	static	dynamic.	static	dynamic.	
Fz	F _x (N)	1210	1100	1900	1800	
Mz	F _v (N)	3000	2000	4400	3100	
	F _z (N)	3500	2800	4900	4400	
Mx	M _x (Nm)	400	320	600	510	
Fx Fx	M _v (Nm)	360	300	560	480	
Fy	M _z (Nm)	180	150	310	275	
My My	All forces and torques related to the following:					
	existing values Fy Fz Mx	My _	Mz			
	existing values $\frac{Fy}{Fy_{dyn}}$ + $\frac{Fz}{Fz_{dyn}}$ + $\frac{Mx}{Mx_{dyn}}$	My _{dyn}	Mz _{dyn}			
	No-load torque					
	Nm without cover bands	1	,5		,8	
	Nm with cover bands	2	,1		4	
	Speed					
	(m/s) max	6	5		8	
	Tensile force					
	permanent (N)	12	10	1.	100	
	0,2 s (N)	1331 2090				
	Geometrical moments of inertia of aluminium profile	2				
	l _x mm⁴	22,2	x10 ⁵	63,	3x10⁵	
	l _v mm⁴	122,0	0x10 ⁵	335	5x10 ⁵	
	Elastic modulus N/mm ²	700	000	70	000	

For life-time calculation of rollers use our homepage.

$P_{a} = \frac{M_{a} * n}{9550}$ $P_{a} = \frac{M_{a} * n}{9550}$ $P_{a} = \frac{M_{a} * n}{9550}$ $P_{a} = \frac{M_{a} * n}{1 + 1}$ $P_{a} =$
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130



 DLZZ
 200
 4
 0
 0
 2
 0
 7
 1
 1500
 Basic length + stroke = total length

 Pos.
 1
 2
 3
 4
 5
 6
 7

Sample ordering code:

DLZZ 200 with internal profile and cover bands, carriage version 0, drive version 2, 710 mm stroke.



DLZZ 200 ²

Ø 18 x 45

6x6x40

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