Positioning system DLZ 120, 160, 200

Belt drive



Function:

This unit consists of a rectangular aluminium profile with 2 integrated roller guides. The carriage is moved by a belt drive. Each standard pulley has got one coupling claw on one side. 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, the opening can also be covered with a bellow or can be delivered without cover bands.

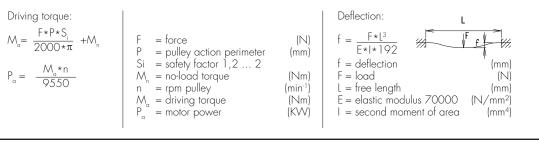
Fitting position:As requireCarriage mounting:By T-slots.Unit mounting:By T-slotsBelt type:HTD withCarriage support:In the standard

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. HTD with steel reinforcement, no backlash when changing direction, repeatability ± 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	1	20	1	60	200								
	Forces/Torques	static	dynamic	static	dynamic	static	dynamic							
	F _x (N)	894	800	1900	1800	4000	3800							
Fz≜	F, (N)	1100	900	3000	2000	4400	3100							
Mz	F_ (N)	1250	1000	3500	2800	4900	4400							
	M, (Nm)	150	125	400	320	600	510							
Mx File	M, (Nm)	140	120	360	300	560	480							
MX FX	M _z (Nm)	100	90	180	150	310	275							
Fy	All forces and torque	All forces and torques related to the following:												
	existing values	Fy Fz	+ <u>Mx</u> +	Mv	Mz									
		y _{dyn} Fz _{dyn}	• • <u>Mx_{dyn}</u> •	My _{dyn} +	≤∎ Mz _{dyn}									
	No-load torque													
	Nm without cover bands	1	,2	1	1,5	1,8								
	Nm with cover bands	1	,6	2	2,1	4								
	Speed	Speed												
	(m/s) max		4		6	8								
	Tensile force	Tensile force												
	permanent (N)	9	00	ן ו	700	4000								
	0,2 s (N)	10	000	20	090	4300								
	Geometrical moment	Geometrical moments of inertia of aluminium profile												
	l _x mm ⁴	6,6	x105	22,	2x105	63,8x10 ⁵								
	l _v mm ⁴	38,0	5x105	122	,0x10⁵	335×105								
	Elastic modulus N/mm ²	70	000	70	0000	70000								

Rost frei For life-time calculation of rollers use our homepage.

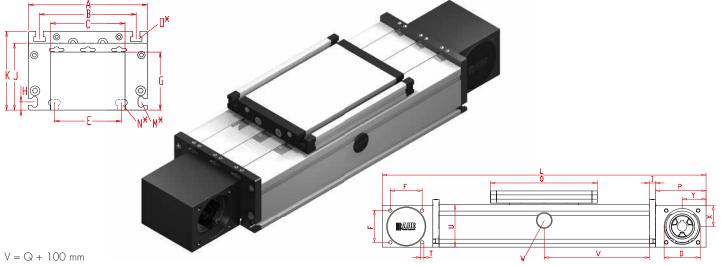


Modultechnik

Positioning system DLZ 120, 160, 200

Dimensions (mm)

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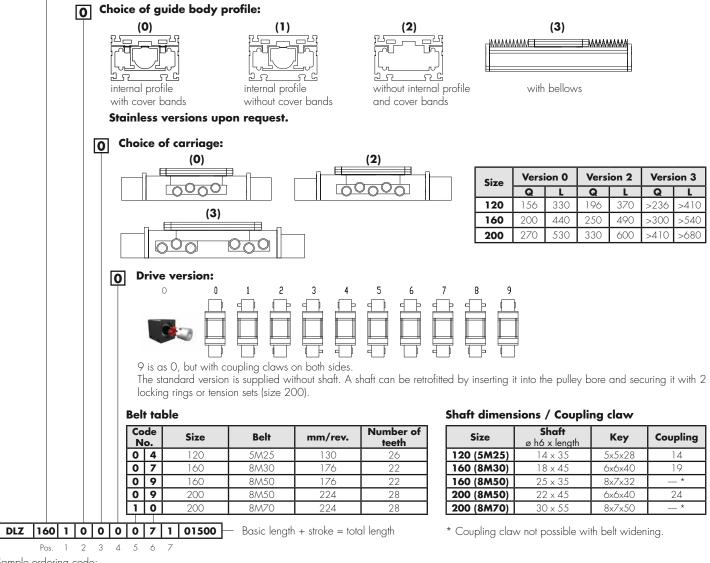


W = servicing position

*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 -0,05	E	F	G	н	Т	L	к	M for	N for	O for	Р	Q	т	U	x	Y	Basic weight	Weight per 100 mm	
DLZ 120	330	120	96	80	47	78	42	58	10	10	68	79	M 5	Μ6	M6	70	156	Μ6	60	28	35	5,1 Kg	0,85 Kg	
DLZ 160	440	160	130	100	68	90	60	78	11	12	90	106	Μ6	M 8	M 8	95	200	M 8	80	39	45	13,0 kg	1,69 kg	
DLZ 200	530	200	160	130	90	140	80	97	15	15	110	129	M 8	M10	M10	110	270	M10	100	49	50	23,4 kg	2,33 kg	



Sample ordering code:

DLZ160 with internal profile and cover bands, standard carriage, coupling claw on one side, 1060 mm stroke.



