Linear system ALLZ 203

BELT DRIVE

= ROLLER GUIDE

- (KG) HEAVY LOAD
- 🔊 HIGH LOAD CAPACITY



REFEREN ONL)

Function:

This unit consists of an aluminium profile with hardened steel guide rods mounted on top of the profile. The carriage, which has internal linear ball bearings that can be adjusted free of play, is driven along the guide rods by a timing belt. The pulleys have maintenance-free ball bearings. Opposite the driven side there is an integrated timing-belt tensioner which can be readjusted by 2 screws.

Fitting position:
Carriage mounting:
Unit mounting:
Carriage support:

As required. Max. length 5.000 mm without joints. By tapped holes. 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 \pm 0,1. HTD with steel reinforcement, no backlash when changing direction, repeatability: \pm 0,1 mm.

Belt type:

Forces and torques	Size										
	Forces/Torques	static dy	ynamic								
FzM	F _x (N)	-	5610								
	F _v (N)	23000	18400								
	F _z (N)	11000	8800								
	M _x (Nm)	1180	950								
	M _v (Nm)	1870	1500								
	M _z (Nm)	3800	3100								
	All forces and torques related to the following:										
Fy Fy	existing values Fy Fz Mx My Mz										
My My	table values Fy_{dyn} + Fz_{dyn} + Mx_{dyn} + My_{dyn} +	Mz _{dyn}									
	No-load torque										
	Nm	4									
	Speed										
	(m/s) max	8									
	Geometrical moments of inertia of aluminium profile	· · ·									
	l _x mm ⁴										
	l, mm⁴										
	Elastic modulus N/mm ²										

For life-time calculation of rollers use our homepage.





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

s	ize	Basic length L	A	в	Cx	Су	D	F	G	Hx	Ну	I	J	к	N for	ο	Р	R	s	т	U -0,05	v	w	x	Y	z	Basic weight	Weight per 100 mm
ALL	Z 203	798	432	88	200	97	260	139,6	200,5	180,5	124,5	20	14,5	154,5	M16	182	110	96	30	57	90	80	10	49,5	50	180	90 kg	4,0 kg



Sample ordering code:

ALLZ203, guide rods 30 mm, standard body profile, coupling claw on both side, toothed belt 8M100, 1208 mm stroke.



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