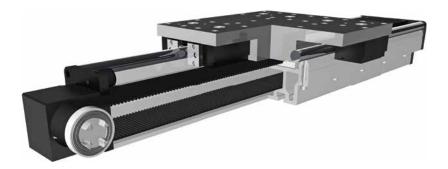
## Linear system ALLZ 203, 204

## **BELT DRIVE**

= ROLLER GUIDE

- (KG) HEAVY LOAD KG HIGH LOAD CAPACITY



## **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:
<b>Carriage mounting:</b>
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.

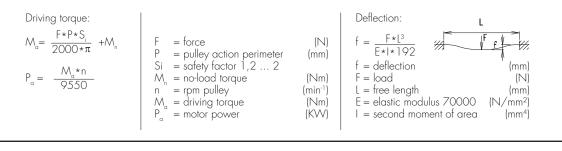
**Belt type:** 

4

Forces and torques
Fz Mz Fy My Fx

Siz	e		ALLZ	203	ALLZ 204						
Forces/Te	orques		static	dynamic	static	dynamic					
F <sub>×</sub> (î	4)		-	5610	-	5610					
F <sub>v</sub> (1	1)		23000	18400	30000	24000					
F <sub>z</sub> (M	1)		11000	8800	16200	13000					
M <sub>x</sub> (N	m)		1180	950	1870	1500					
M <sub>v</sub> (N	m)		1870	1500	3000	2400					
M <sub>z</sub> (N	m)		3800	3100	5600	4500					
existing values table values No-load torque	Fy Fy <sub>dyn</sub> +	Fz Fz <sub>dyn</sub>	+ $\frac{Mx}{Mx_{dyn}}$ ·	+ My My <sub>dyn</sub> +	Mz Mz <sub>dyn</sub> ≤1						
Nn	<u>ו</u>		4			4					
Speed											
(m/s)	max		8		8						
Geometrical mome	ents of inertia	of alumir	nium profile								
l <sub>x</sub> mr	n <sup>4</sup>		2,26 x	10 <sup>7</sup>	2,98 x 10 <sup>7</sup>						
l <sub>y</sub> mr	n <sup>4</sup>		8,75 x	10 7	10,22 x 10 <sup>7</sup>						
Elastic modu	lus N/mm²	1	700	00	70000						

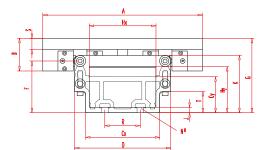
For life-time calculation of rollers use our homepage.

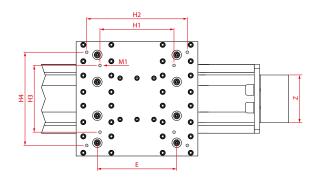


Modultechnik

Rost frei

## Linear system ALLZ 203, 204

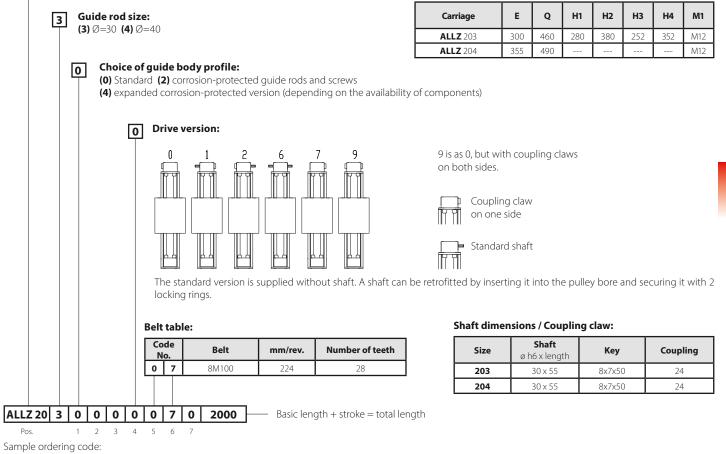




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Increasing the carriage length will increase the basic length by the same amount.

Size	Basic length L	А	в	Cx	су	D	F	G	Hx	Ну	I	ſ	к	N for	0	Р	R	s	т	<b>U</b> -0,05	v	w	х	Y	z	Basic weight	Weight per 100 mm
<b>ALLZ</b> 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
<b>ALLZ</b> 204	822	460	80	200	97	270	139,6	199	180,5	124,5	20	14,5	165	M16	182	110	96	30	57	90	80	10	49,5	50	180	92 kg	4,9 kg



Rost frei

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





14.1

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