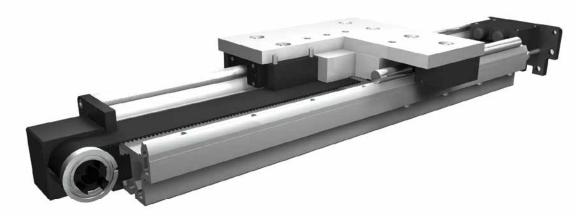
Specifications

Positioning system ALLZ 203, 204

Belt drive



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: As required. Max. length 6.400 mm without joints.

Carriage mounting: By tapped holes.

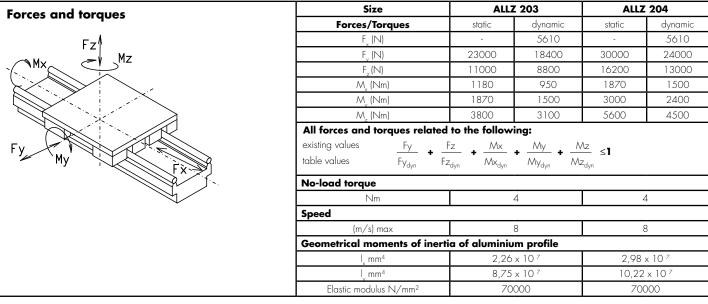
Unit mounting: By T-slots and mounting sets. The linear axis can be combined with any T-slot profile.

Carriage support: 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 $\pm 0, 1$.

Belt type: HTD with steel reinforcement, no backlash when changing direction, repeatability: $\pm 0, 1$ mm.



For life-time calculation of rollers use our homepage.



Driving torque:

$$M_{a} = \frac{F * P * S_{i}}{2000 * \pi} + M_{n}$$

$$P_a = \frac{M_a * n}{9550}$$

= force = pulley action perimeter

Si = safety factor 1,2...2 M_n = no-load torque n = rpm pulley

 $M_a = \frac{1}{2}$ driving torque $P_a = \frac{1}{2}$ motor power

(N) (mm) (Nm) (min⁻¹) (Nm) (KW)

Deflection: L $f = \frac{F * L^3}{E * I * 192}$ f = deflection F = load L = free length E = elastic modulus 70000 I = second moment of area I = modulus 1

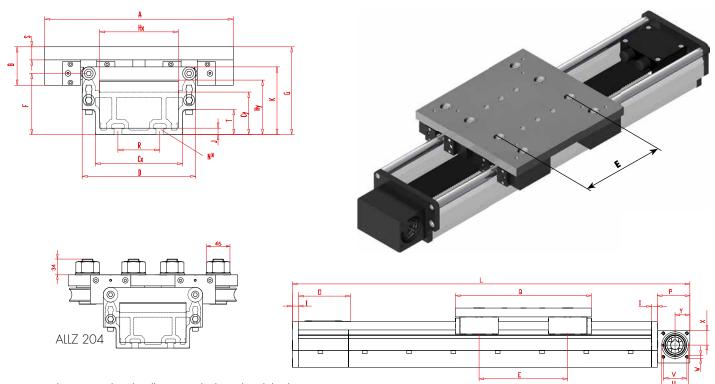






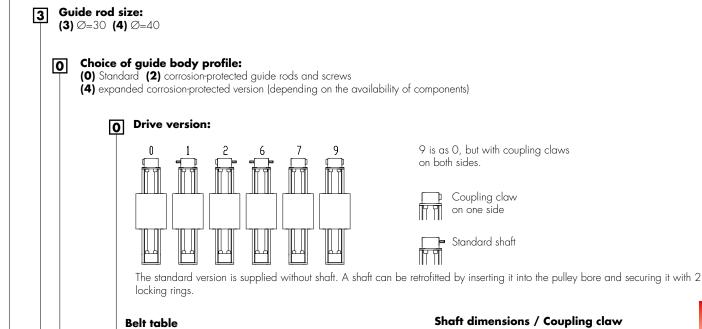
Positioning system ALLZ 203, 204

Dimensions (mm)



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

Size	Basic length L	A	В	Cx	Су	D	E	F	G	Нх	Ну	ı	J	K	N for	0	P	Q	R	s	т	U -0,05	v	w	х	Y	Basic weight	Weight per 100 mm
ALLZ 203	<i>7</i> 92	432	88	200	97	260	300	140	200,5	180,5	124,5	20	14,5	154,5	M16	182	110	460	96	30	57	90	80	10	49,5	50	90 kg	4,0 kg
ALLZ 204	822	460	80	200	97	270	355	145	199	180,5	124,5	20	14,5	165	M16	182	110	490	96	30	57	90	80	10	49,5	50	92 kg	4,9 kg



		<u> </u>					
Size	Shaft ø h6 x length	Key	Coupling				
203	30 x 55	8x7x50	24				
204	30 x 55	8x7x50	24				

0

Code

0 7

0

0 0 0 7

Belt

8M100

2000

Sample ordering code:

ALLZ 20 3 0

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

mm/rev.



- Basic length + stroke = total length

Number of teeth



