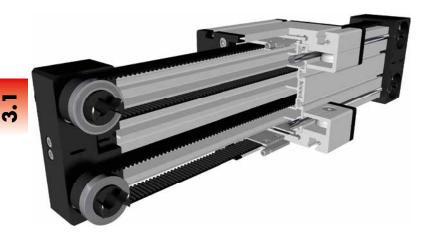
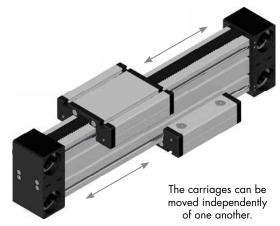
Positioning system ELZD 60 (S) W

Belt drive with two separately driven carriages





70000

Function:

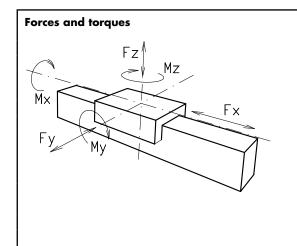
The guide body consists of an aluminium square profile with lateral, parallel, form-fit, internal hardened steel rods. Two carriages, which are driven individually by a timing belt, move along the guide body independently of one another. Due to the rectangular profile high torques and loads can be taken up. In addition, a very high stability and low deflection are ensured for long axis systems. The belt tension can be easily readjusted via a tensioning device within the carriage. This device also helps to adjust the symmetry of the carriages in applications where two parallel linear units are used.

As required. Max. length 3.000 mm without joints. Fitting position:

Carriage mounting:

By T-slots. **Unit mounting:** By T-slots or mounting sets.

HTD with steel reinforcement, no backlash when changing direction, repeatability: ± 0.1 mm. **Belt type:**



	Size		6	0	60 S		
Force	s/Torques		static	dynamic	static	dynamic	
	F _. (N)		894	800	894	800	
	F _v (N)		3000	2000	4100	3100	
	F _z (N)		1700	1100	2160	1600	
٨	1, (Nm)		67	43	88	65	
٨	√, (Nm)		90	70	190	140	
٨	۱ _, (Nm)		120	100	230	170	
All forces and to	rques rela	te to the foll	owing:				
existing values	Fy .	Fz •	Mx . M	y Mz	~1		
table values	Fy _{dyn}	Fz _{dyn} • N	1 _{Ny}		≥1		
No-load torque							
	Nm		0	,6	C),7	
Speed							
(m	/s) max			5	7		
Tensile force							
pern	nanent (N)		90	00	900		
0,	,2 s (N)		10	000	1000		
Geometrical mor	nents of in	ertia of alun	ninium pro	file			
l, mm ⁴			2,8	x 106	2,8 x 10 ⁶		
	mm ⁴		9,6 :	x 10 ⁵	9,6 x 10⁵		

For life-time calculation of rollers use our homepage.

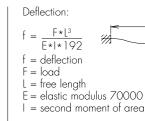
70000

Driving torque:

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

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

= force (N) = pulley action perimeter (mm) = safety factor 1,2 ... 2 $M_n = \text{no-load torque}$ (Nm)= rpm pulley (min-1) M_a = driving torque (Nm) (KW) = motor power







E-Modulus N/mm²

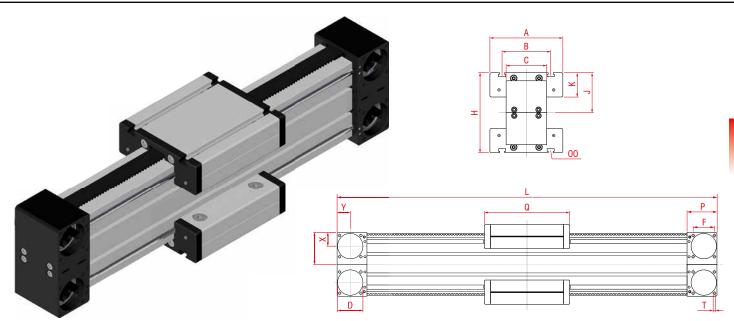


(mm)

(mm)

/mm²)

 (mm^4)



*For slide nuts refer to chapter 2.2 page 2

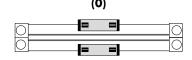
Increasing the carriage length will increase the basic length by the same amount.

Size	Basic length L	A	В	С	D - 0,05	F	Н	J	К	м	OO for	P	Q	T	х	Y	Basic weight	Weight per 100 mm
ELZD 60 W	290	144	96	80	47	42	158	79	48	<i>7</i> 1	M8	59	168	M6	27	26	9,6 kg	1,0 kg
ELZD 60S W	315	170	108	80	47	42	166	83	52	<i>7</i> 1	M8	59	194	M6	27	26	11,6 kg	1,0 kg

Choice of guide body profile: 0

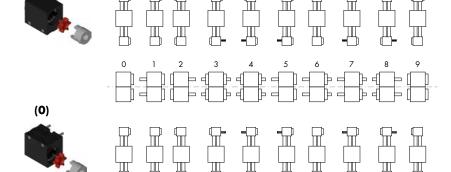
- (0) Standard (2) corrosion-protected guide rods and screws
- (4) expanded corrosion-protected version (depending on the availability of components)

Choice of carriages:



O Drive version:

(0)



Top drive version:

Version 9 is the same as 0, but with double sided coupling claw.

Mirror plane

Drive version (top and bottom identical)

Bottom drive version:

Version 9 is the same as 0, but with double sided coupling claw.

Belt table

Code No.		Size	Belt	mm/rev.	Number of teeth	
0	4	60 (S)	5M25	130	26	

Shaft dimensions / Coupling claw

Size	Shaft ø h6 x length	Key	Coupling		
60 (S)	14 x 35	5x5x28	14		

For combination kits and connecting elements refer to chapter 2.2

ELZD | 60 W | 1 | 0 | 0 | 0 | 0 | 4 | 1 |

Sample ordering code:

ELZD 60 W, standard body profile, standard carriage, coupling claw on one side, 1210 mm stroke

01500





Basic length + stroke = total length



