

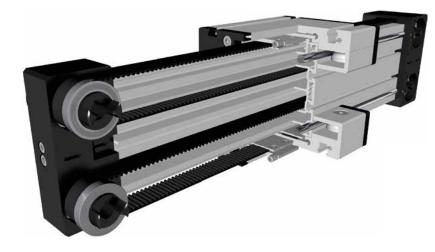
### BELT DRIVE WITH TWO SEPARATELY DRIVEN CARRIAGES

HIGHER PROFILE STABILITY

INDEPENDENT CARRIAGES

KG HIGHER FORCE FIXTURE





#### **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.

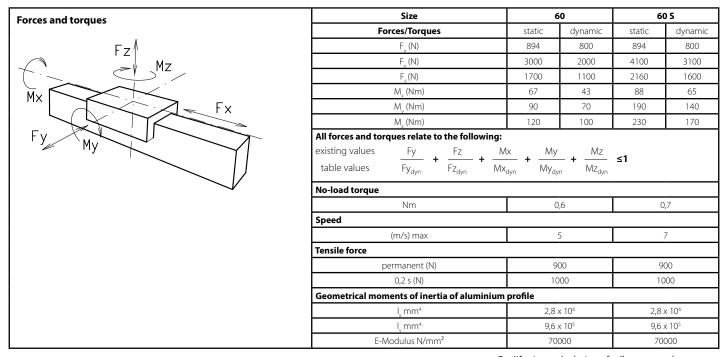
**Fitting position:** As required. Max. length 3.000 mm without joints.

By T-slots.

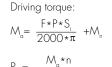
Carriage mounting:

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

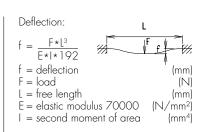
**Belt type:** HTD with steel reinforcement, no backlash when changing direction, repeatability: ± 0,1 mm.



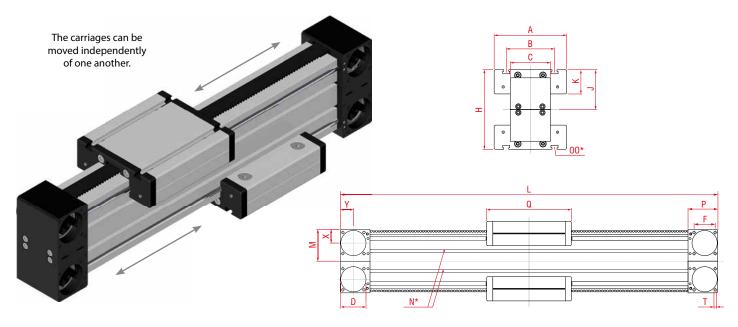
For life-time calculation of rollers use our homepage.



 $\begin{array}{lll} F &=& \text{force} & \text{(N)} \\ P &=& \text{pulley action perimeter} & \text{(mm)} \\ Si &=& \text{safety factor 1,2...2} \\ M_n &=& \text{no-load torque} & \text{(Nm)} \\ n &=& \text{rpm pulley} & \text{(min'1)} \\ M_a &=& \text{driving torque} & \text{(Nm)} \\ P_a &=& \text{motor power} & \text{(KW)} \end{array}$ 





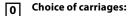


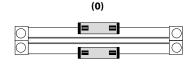
Increasing the carriage length will increase the basic length by the same amount.

Size	Basic length L	A	В	c	<b>D</b> - 0,05	F	н	J	К	М	N for	OO for	P	Q	т	х	Υ	Basic weight	Weight per 100 mm
<b>ELZD</b> 60 <b>W</b>	290	144	96	80	47	42	158	79	48	71	M5	M8	59	168	М6	27	26	9,6 kg	1,0 kg
ELZD 60S W	315	170	108	80	47	42	166	83	52	71	M5	M8	59	194	М6	27	26	11,6 kg	1,0 kg

#### Choice of guide body profile:

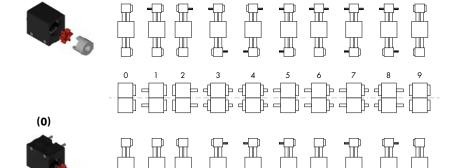
- (0) Standard (2) corrosion-protected guide rods and screws
- (4) expanded corrosion-protected version (depending on the availability of components)





### 0 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		

ELZD 60 W 1 0 0 0 0 4 1 1500

Basic length + stroke = total length

Sample ordering code:

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

