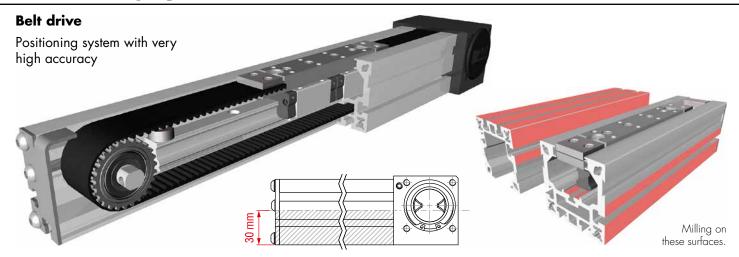
Positioning system LSZ 60 HP



Function:

The guide body consists of an aluminium square profile which is surface-milled before assembly (marked red in the picture). The eloxal is removed in these areas. Thanks to these machining operations we achieve the highest level of accuracy for the positioning systems and are able to remove fine unevennesses and deviations.

The guide body consists of an aluminium square profile with an integrated rail guide. The carriage is moved by means of a revolving interior timing belt. At the front face there is a timing belt deflection unit with integrated coupling claws integrated on two sides. The opposite front face is provided with a plate containing a tensioning device for the timing belt.

Mounting position: **Carriage connection:** Variable, max. one-piece-length: 2.000 mm.

By threaded holes.

Fixation:

By T-slots and mounting sets. The linear axis can be combined with any T-slot profile. Timing belt: HTD with reinforcing steel mesh, no backlash when changing direction, repeatability \pm 0.1 mm.

Carriage support: In the standard version the carriage is positioned on two runner blocks which can be readjusted and maintained at each central servicing position. Two grease nipples at the carriage enable relubrication of the positioning system.

Forces and torques Fz Mz Fx

	permitted dyn. Forces*		5000 km	10000 km				
	F _× (N)		1073	960				
	F _v (N)		1410	990				
	F _z (N)	3520	2500					
	M _x (Nm)	33	23					
	M _v (Nm)		104	73				
	M _z (Nm)		100	<i>7</i> 0				
existing values table values	$\frac{Fy}{Fy_{dyn}}$ + $\frac{Fz}{Fz_{dyn}}$ + $\frac{Mx}{Mx_{dyn}}$ + $\frac{A}{Mx_{dyn}}$	$\frac{\text{Ny}}{\text{y}_{\text{dyn}}} + \frac{\text{Mz}}{\text{Mz}_{\text{dyn}}}$	≤1					
No-load torque								
	Nm		0,6					
Speed								
	(m/s) max		5					
Tensile force								
	permanent (N)		1050					
	0,2 s (N)		1150					
Geometrical mo	ments of inertia of aluminium p	ofile	·					
	$l_{_{\rm X}}$ mm 4		4,37x10 ⁵					
	l mm ⁴		5 78×10 ⁵					

For life-time calculation use our homepage.

* referred to life-time

70000

Driving torque:

$$M_a = \frac{F * P * S_i}{2000 * \pi} + M_n$$

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

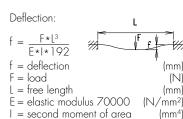
= force

= pulley action perimeter = safety factor 1,2 ... 2

 $M_n = no-load torque$ = rpm pulley

 $M_a = driving torque$ = motor power

(N) (mm) (Nm)(min-1) (Nm) (KW)



Elastic modulus N/mm²



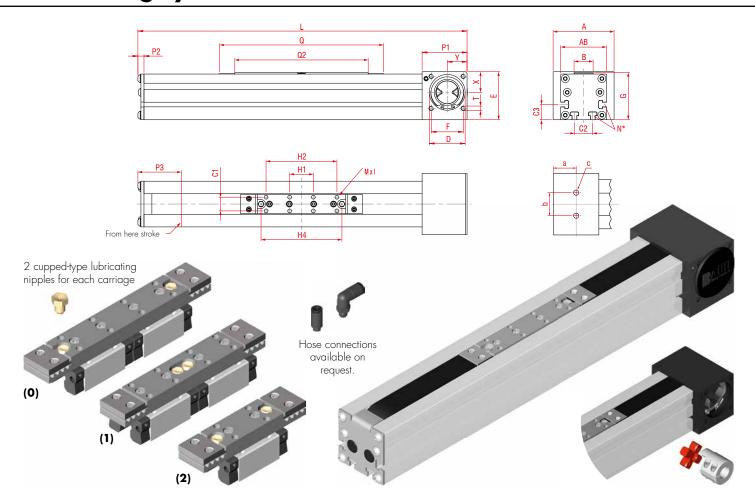






Positioning system LSZ 60 HP

Dimensions (mm)



*For slide nuts refer to chapter 2.2 page 2

All milled surfaces without anodizing.

Size □	A	АВ	В	C1	C2	СЗ	D -0,05	Е	F	G	Mxl	N for	ΡΊ	P2	Р3	Т	х	Y	В	Ь	'n	Basic weight	Weight per 100 mm
LSZ 60 HP	80	60	25	18	24	19,5	47	63	42	61	M6x10	M5	59	6	55	M6	27	26	29,5	30	M8	2,67 kg	0,46 kg

O Choice of guide body profile:

(O) Standard

Co	ırriage	L	Ø	Q2	H1	H2	H4
Ver	sion (0)	274	160	116	31	93	106
Ver	sion (1)	254	140	96	32	84	10
Ver	sion (2)	214	100	56	31	-	48

Choice of carriages: 0 (0) (1) (2) O Drive version:

Belt table:

Code No.	Size	Belt	mm/rev.	Number of teeth		
0 3	60	5M 30	130	26		
\Box						

Shaft dimensions / Coupling claw:

Size	Shaft	Feather key	Coupling		
60	14 h6 x 35	5x5x28	14		

LSZ 60 HP 1 0 0 0 0 3 1 01500 -Basic length + stroke = total length

Sample ordering code:

LSZ60HP, standard body profile, standard carriage, double-sided coupling claw, 1226 mm stroke







