## Positioning system LSZE 60

## **Belt drive**



## **Function:**

This unit consists of a square aluminium profile with an integrated rail guide and is covered by a stainless steel sheet (thickness 0.37mm, material 1.4301). The carriage is moved by means of an internal rotating toothed belt. On one end there is a pulley block with shaft(s). The opposite front face is provided with a plate containing a tensioning device for the timing belt.

Fitting position: **Carriage mounting: Unit mounting: Belt performance: Carriage support:** 

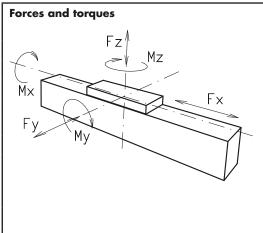
As required. Max. length 3.000 mm without joints.

By tapped holes.

By T-slots and mounting sets, bores through the cover. The linear axis can be combined with any T-slot profile.

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

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.



	Size		60						
permitte	d dyn. Forces*	5	000 km	10000 km					
	F <sub>x</sub> (N)		894	800					
	F <sub>y</sub> (N)		1410	990 2500					
	F <sub>z</sub> (N)		3520						
٨	Л <sub>×</sub> (Nm)		33	23 73					
٨	Л <sub>у</sub> (Nm)		104						
٨	$M_z$ (Nm)		100	70					
All forces and t	orques related to	the follow	/ing:						
existing values table values	$\frac{Fy}{Fy_{dyn}}  \bullet  \frac{Fz}{Fz_{dyn}}$	$+$ $\frac{Mx}{Mx_{dyn}}$	$+ \frac{My}{My_{dyn}}$	$+ \frac{Mz}{Mz_{dyn}} \le 1$					
No-load torque									
	Nm		0,6						
Speed									
(m	n/s) max		5						
Tensile force									
perr	manent (N)		900						
0	,2 s (N)		1000						
Geometrical ma	ments of inertia	of alumini	um profile						
	l <sub>x</sub> mm <sup>4</sup>		4,37x10 <sup>5</sup>						
	l <sub>y</sub> mm <sup>4</sup>	İ	5,78×10 <sup>5</sup>						
Elastic m	odulus N/mm²		70000						

<sup>\*</sup> referred to lifetime

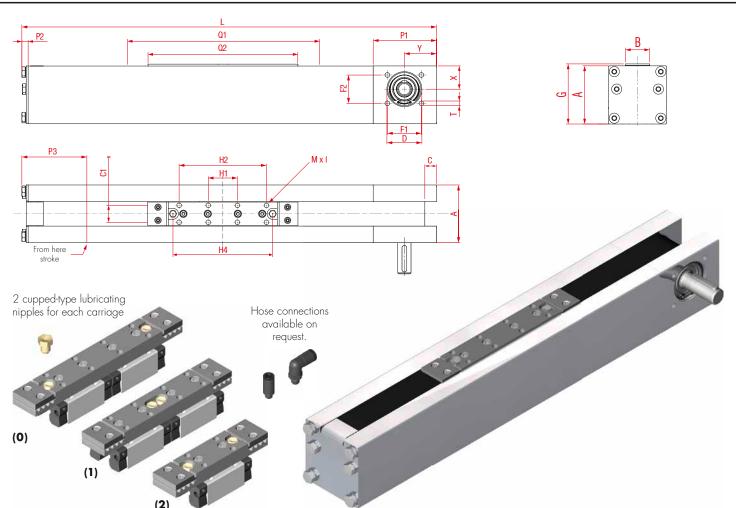








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\*For slide nuts refer to chapter 2.2 page 2

Size □	Basic lenght L	<b>A</b>	В	С	C1	<b>D Ø</b> -0,05	F1	F2	G	н1	Н2	Н4	Mxl	P1	P2	Р3	Q1	Q2	T für	х	Y	Basic weight		ht per mm
LSZE 60	284	61	25	12,4	18	37	36	30	63	31	93	106	M6x10	67	7	56	160	116	M6	24,	6 34	3,3 kg	0,5	55 kg
	0			_	<b>uide b</b> th corro	_	_			none	ents.				Carr			Q1	L	Ţ	Q2	Н1	H2	H4
		(-)	,0,0		000	, , , , , , , , , , , , , , , , , , ,	0.0	0.00		.po	51110				Version		_	160	284 264	-	116 96	31	93	106
		0	Cho	oice c	f carr	iage	5:							_	Versio Versio		_	100	204	-	56	31	- 84	48
																	(							10
			ם י	Prive	versio	2 2	<b>.</b>		6															
				1		2	3									She	aft d	imen	sions	•				
			Be	1		2	3 Belt	n	00	rev.	Nur	mber c	of teeth			She	aft d		sions		Fec	ather key	,	

LSZE 60

Sample ordering code: LSZE60, standard body profile, drive version 1, 1218 mm stroke

3 4 5 6

1 0 0 1 0 3 1 01500



-Basic length + stroke = total length



