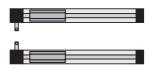
OSP-E..B Linear Drive with Toothed Belt

Size 25, 32, 50



Standard Versions:

- Standard carrier with internal plain bearing guide
- Dovetail profile for mounting of accessories and the actuator itself
- Position of Drive Shafts



Options:

- Tandem-Version
- Bi-parting version for synchronized movements
- Drive shaft with double plain shaft



Forces, loads and moments Fz Mz Mx M = F · I [Nm] M = M x stically + M y dynamically for calculation of moments relates to the centre axis of the linear drive.

Combined Loads

If the linear drive is subjected to several forces, loads and moments at the same time, the maximum load is calculated with the equation shown here.

The maximum permissible loads must not be exceeded.

Performance Overview											
Characteristics		Unit	Description								
Size			OSP-E25B	OSP-E32B	OSP-E50B						
Max. speed		[m/s]	2	3	5						
Linear motion p drive shaft	er revolution,	[mm]	60	60	100						
Max. rpm drive	shaft	[min ⁻¹]	2 000	3 000	3 000						
Max. effective	< 1 m/s:	[N]	50	150	425						
action force	1- 2 m/s:	[N]	50	120	375						
F _A at speed	> 2 m/s:	[N]	_	100	300						
No-load torque		[Nm]	0.4	0.5	0.6						
Max. acceleration	n/deceleration	[m/s ²]	10	10	10						
Repeatability		[mm/m]	±0.05	±0.05	±0.05						
Max. stroke leng	gth OSP-EB	[mm]	3000	5000	5000						
Max. stroke leng	gth OSP-EB*	[mm]	2 x 1500	2 x 2500	2 x 2500						

^{*} Bi-parting version

Maximum Permissible Torque on Drive Shaft Speed / Stroke												
	OSP-E25B									E50B		
Speed [m/s]	Torque [Nm]	Stroke [m]	Torque [Nm]	Speed. [m/s]	Torque [Nm]	Stroke [m]	Torque [Nm]	Speed. [m/s]	Torque [Nm]	Stroke [m]	Torque [Nm]	
1 2	0.9 0.9	1 2 3	0.9 0.9 0.9	1 2 3	2.3 2.0 1.8	1 2 3 4 5	2.3 2.3 2.3 2.3 2.3 1.8	1 2 3 4 5	10.0 9.5 9.0 8.0 7.5	1 2 3 4 5	10.0 10.0 9.0 7.0 6.0	

Important:

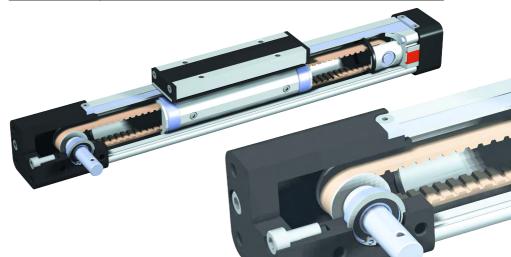
The maximum permissible moment on the drive shaft is the lowest value of the speed- or stroke-dependent moment value.

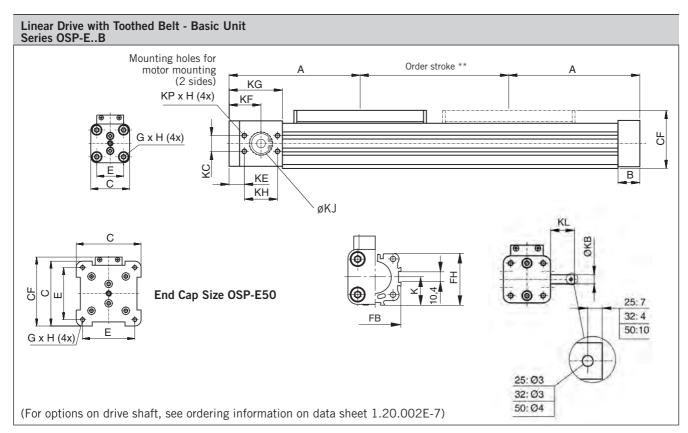
Example above:

OSP-E32B stroke 2 m, required speed 3 m/s;

From table T2: speed 3 m/s gives 1.8 Nm and stroke 2 m gives 2.3 Nm. Max. torque for this application is 1.8 Nm.

Maximum Permissible Loads (
Series	Max. applied load Fz [N]	Max. mome Mx	nts [Nm] My	Mz							
OSP-E25B	160	2	12	8							
OSP-E32B	300	8	25	16							
OSP-E50B	850	16	80	32							
OSP-EB Bi-partional	The maximum load F must be equally distributed among the two carriers.										



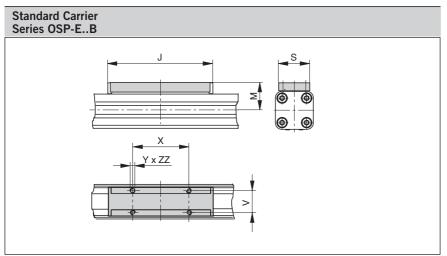


* Note:

The mechanical end position must not be used as a mechanical end stop. Allow an additional safety clearance at both ends equivalent to the linear move ment of one revolution of the drive shaft, but at least 100 mm.

Order stroke = required travel + $2 \times \text{safety distance}$.

The use of an AC motor with frequency converter normally requires a larger safety clearance than that required for servo systems. For further information please contact you local HOERBIGER-ORIGA representative.





Dimension Table [mm]													
Series	Α	В	С	E	G x H	J	K	М	S	٧	Х	Υ	CF
OSP-E25B	125	22	41	27	M5 x 10	117	21.5	31	33	25	65	M5	52.5
OSP-E32B	150	25	52	36	M6 x 12	152	28.5	38	36	27	90	M6	66.5
OSP-E50B	200	25	87	70	M6 x 12	200	43	49	36	27	110	M6	92.5

Series	FB	FH	КВ	KC	KE	KF	KG	KH	KJ	KL	KM _{min}	KM _{empf.}	KP x H	ZZ
OSP-E25B	40	39.5	10 _{j6}	15	22	37	57	30	19 ^{H7}	24	130	190	M5 x 10	8
OSP-E32B	52	51.7	10 _{j6}	18	17.5	36.5	61	38	26 ^{H7}	26	170	230	M6 x 12	10
OSP-E50B	76	77	16 _{h8}	32	23.5	48.5	85	50	40 ^{H7}	34	220	320	M8 x 12	10

ORIGA SYSTEM PLUS OSP-E

Electric Drives

OSP-E..B Toothed Belt



OSP-E..BH2 Belt Heavy Duty

Single Rail, Recirculating Ball Bearing Guide



HMR High Moment Rodless

Double Rails, Recirculating Ball Bearing Guide



HMR-B Belt Fast & Positioning

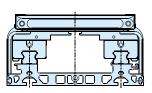


HMR-S Screw Force & Precision



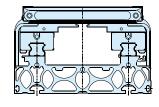
HMR Basic

Direct mounting on the machine bed



HMR Reinforce

Self-supporting systems







OSP-E..SB Ball Screw

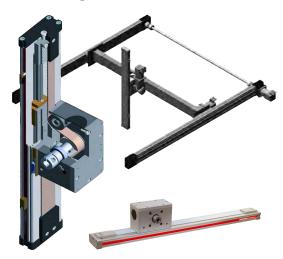


OSP-E..SBR Rod Screw



OSP-E..BV Belt Vertical

Vertical Lifting in Multi-Axis



Multi-Axis Systems

XYZ: HMR, BH2, BV, OSP-E with Guide

