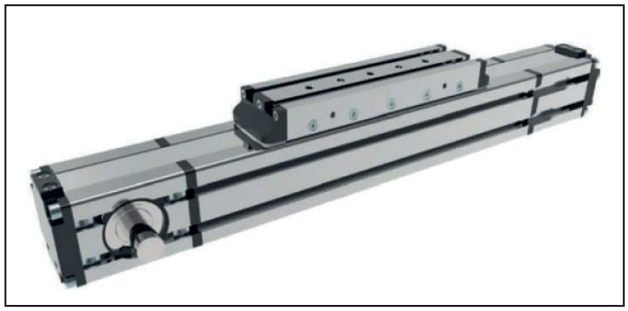
DUPLOMATIC
MOTION SOLUTIONS

LTB3-LTF3*

SERIE 10



LTB3

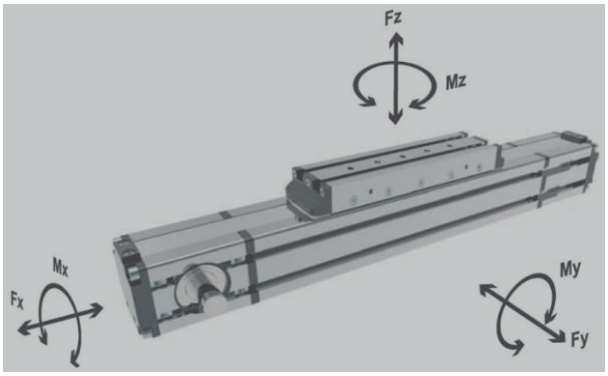
Linear actuator with toothed belt transmission and linear guideway.
Aluminum profile with square section of high rigidity.
The coupling of the motor with the actuator takes place through the use of a special kit.

LTB3-42, LTB3-55, LTB3-80, LTB3-105

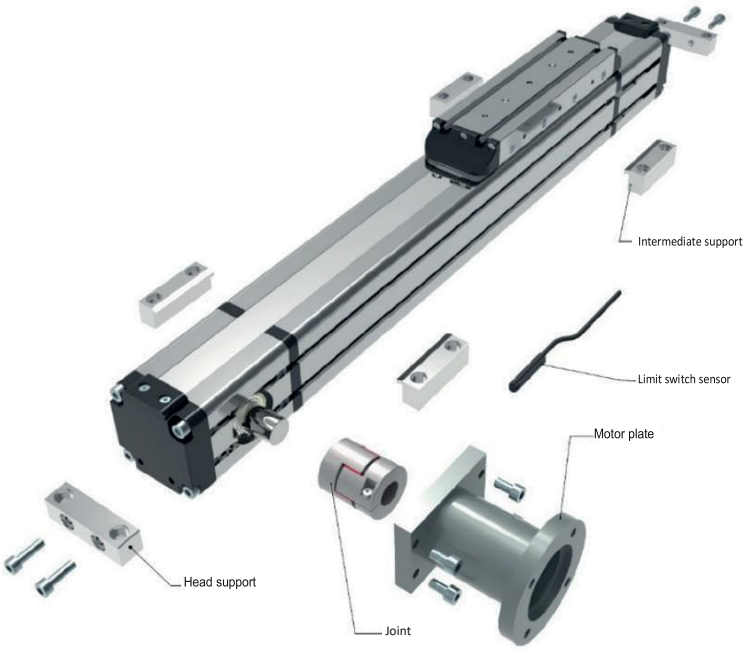
Size	[-]	42x42	55x55	80x80	105x105
Maximum speed	[m/s]	3	3	3	3
Maximum stroke	[mm]	6700	6700	6700	6700
Minimum stroke	[mm]	100	100	100	100
Stroke/round pulley	[mm]	90	120	160	210
Teeth number of belt	[-]	18	24	32	21
Belt type profile ATL pitch 5 width 12 mm					
Maximum input speed	[rpm]	2000	1500	1150	850
Weight s troke=0 mm	[kg]	1,6	3,3	6	12,5
Weight per 100 mm stroke	[kg]	0,25	0,58	0,9	1,5
Maximum load Fx *	[N]	460	820	1650	2750
Maximum load Fy *	[N]	1560	1850	4500	7500
Maximum load Fz *	[N]	1560	1850	4500	7500
Maximum torque Mx *	[Nm]	20	25	80	120
Maximum torque My *	[Nm]	55	120	450	700
Maximum torque Mz *	[Nm]	55	120	450	700
Moment of inertia profile Ix	[cm^4]	11,8	36	183	440
Moment of inertia profile Iy	[cm^4]	14,2	45	226	535
Repeatability	[mm]	+/- 0,05	+/- 0,05	+/- 0,05	+/- 0,05
Max axial load at crankshaft	[N]	220	300	300	400
No-load torque	[Nm]	0,3	> 0,4	> 0,5	> 0,8

* Maximum values under dynamic conditions. Refer to the formula below in the case of combined loads.

$$\frac{Fy_A}{Fy} + \frac{Fz_A}{Fz} + \frac{Mx_A}{Mx} + \frac{My_A}{My} + \frac{Mz_A}{Mz} \leq 1$$



Subscript "A" refers to the calculated total values.



LTB3-LTF3*

SERIE 10

LTF3

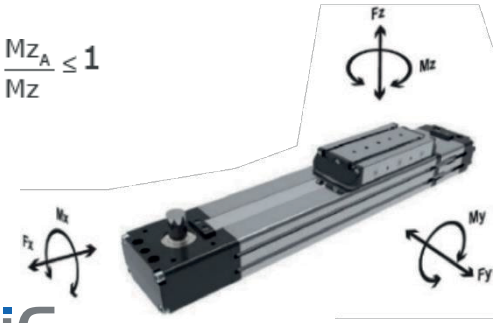
Linear actuator with toothed belt transmission and ball recirculation guide.
Aluminum profile with rectangular section for high moments.
The coupling of the motor with the actuator takes place through the use of a special kit.

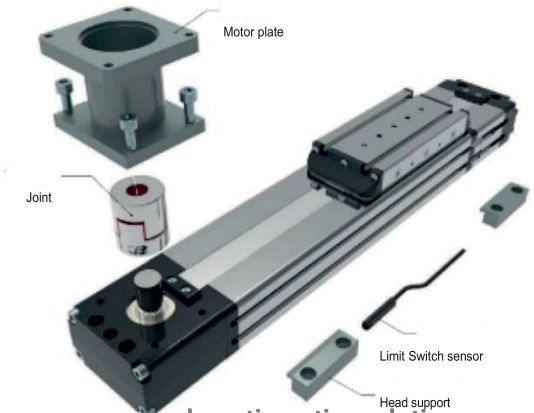
LTF3-42, LTF3-42D

Size	*[-]*	42x75	
Maximum speed	*[m/s]*	3	
Maximum stroke	*[mm]*	6000	
Minimum stroke	*[mm]*	100	
Stroke/round pulley	*[mm]*	130	
Number of pulley teeth	*[-]*	26	
Belt type profile ATL pitch 5 width 12 mm			
Maximum input speed	*[rpm]*	1400	
Version	*[-]*	H	L
Stroke weight 0 mm	*[kg]*	2,8	2,4
Weight per 100 mm stroke	*[kg]*	0,32	0,32
Maximum load Fx *	*[N]*	615	
Maximum load Fy *	*[N]*	1275	
Maximum load Fz *	*[N]*	1275	
Maximum torque Mx *	*[Nm]*	18	9
Maximum torque My *	*[Nm]*	110	55
Maximum torque Mz *	*[Nm]*	110	55
Moment of inertia profile Ix	*[cm^4]*	28	
Moment of inertia profile Iy	*[cm^4]*	37	
Repeatability	*[mm]*	+/- 0,05	
Max axial load at crankshaft	*[N]*	250	
No-load torque	*[Nm]*	> 0,3	

* Maximum values under dynamic conditions. Refer to the formula below in the case of combined loads.

$$\frac{Fy_A}{Fy} + \frac{Fz_A}{Fz} + \frac{Mx_A}{Mx} + \frac{My_A}{My} + \frac{Mz_A}{Mz} \leq 1$$





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