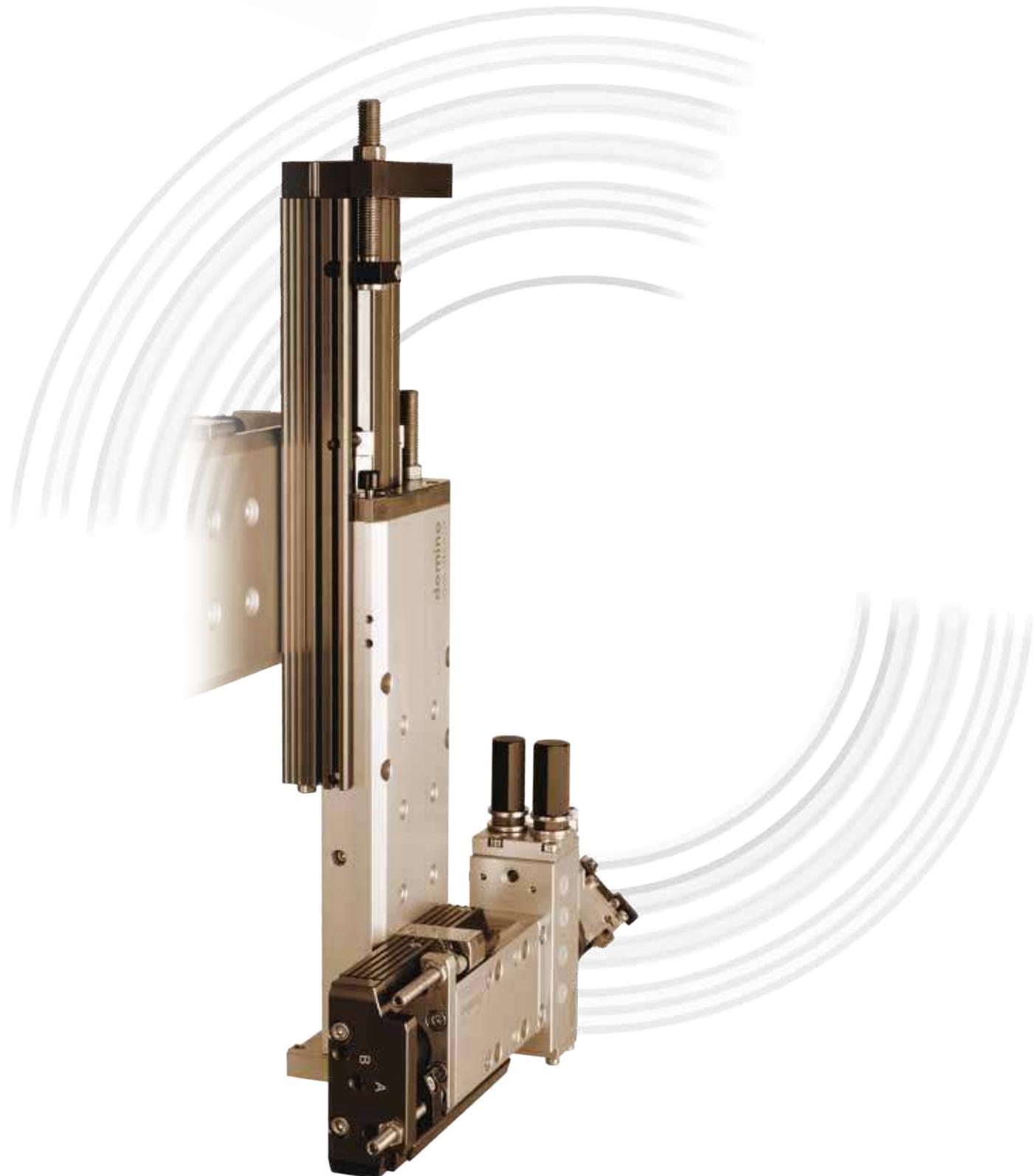


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components

Linear Modules with Intermediate Positions

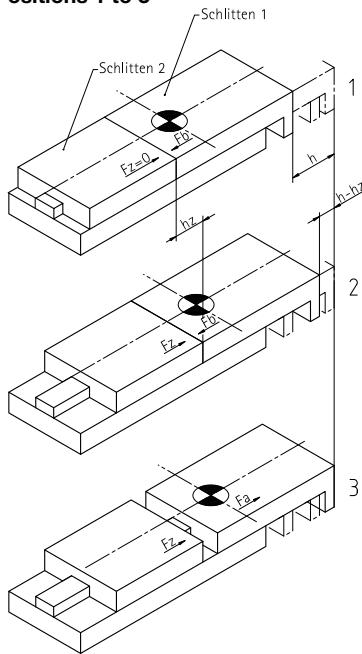
Technical Data – Summary FZ and F-ZA Series

	LM with Intermediate Position								
	LM 4		LM 5		LM 6		LM 8		
	FZ-30	FZ-60	FZ-60	FZ-90	FZ-60	FZ-120	F-120ZA	F-240ZA	F-360ZA
Stroke lengths [mm] h:	0-30	●							
	0-60		●	●					
	0-90				●				
	0-120						●		
	0-180						●		
	0-240							●	
	0-360								●
Max. permissible mass [kg]:	0,8	●		●					
	2,5			●	●				
	5				●	●			
	8					●	●	●	●
Slide 1 Theor. force (bei 5bar) [N]: Fa/Fb	50/38	●							
	113/85		●						
	201/173			●	●				
	394/346					●	●		
Cylinder diameter [mm]:	2x08	●	●						
	2x012			●	●				
	2x016				●	●			
	1x032					●	●	●	●
Slide 2 Theor. force (bei 5bar) [N]: Fz	66	●	●						
	173			●	●				
	364				●	●			
Cylinder diameter [mm]:	2x010	●	●						
	2x016			●	●				
	2x020				●	●			
Air consumption per cycle at 5 bar and nominal stroke [NI]:	0,09	0,11	0,42	0,63	0,68	1,36	0,58	1,13	1,68
Weight [kg]:	0,51	0,83	1,50	2,00	2,40	3,40	5,90	7,90	10,10
Point of application of force for all torques [mm]:	M	71,0	101,0	102,0	143,6	119,0	190,0	138,0	138,0
Maximale statische Torques [Nm]:	Ma	13,6	13,6	19,2	64,0	40,0	96,0	386,4	386,4
	Mb	13,6	13,6	20,8	64,0	32,0	88,0	783,8	783,8
	Mc	13,6	13,6	21,6	23,2	56,0	64,0	336,0	336,0

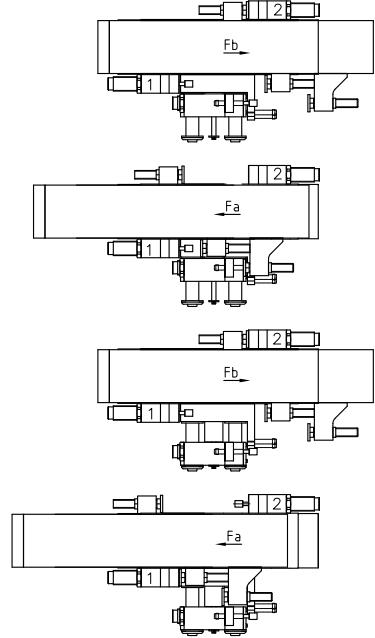
For all modules

Operating pressure [bar]:	3-7
Temperature range [°C]:	0-60
Repeat accuracy [mm]:	+/-0,01

Travel diagram LM FZ: Positions 1 to 3



Travel diagram LM F-ZA



Load Diagramms LM8 F-ZA see page 45

Linear Modules with Intermediate Positions

Load Diagrams

Axial Load

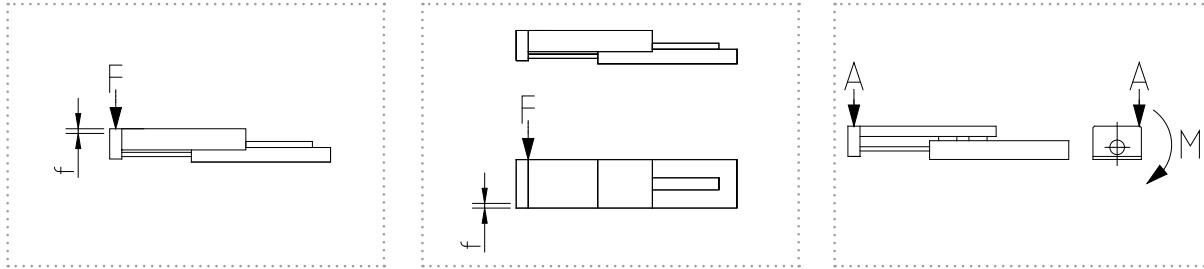
The graph shows the deflection f of the slide under the effect of the force F . The deflection is independent of the stroke.

Transverse Load

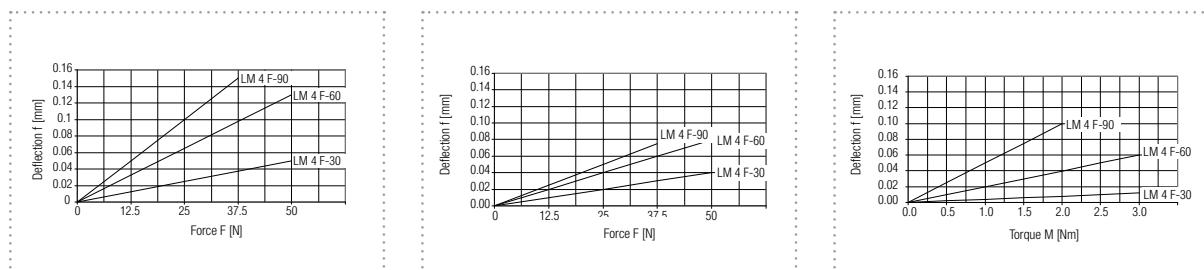
The graph shows the deflection f of the slide under the effect of the force F . The deflection is independent of the stroke.

Lateral Load

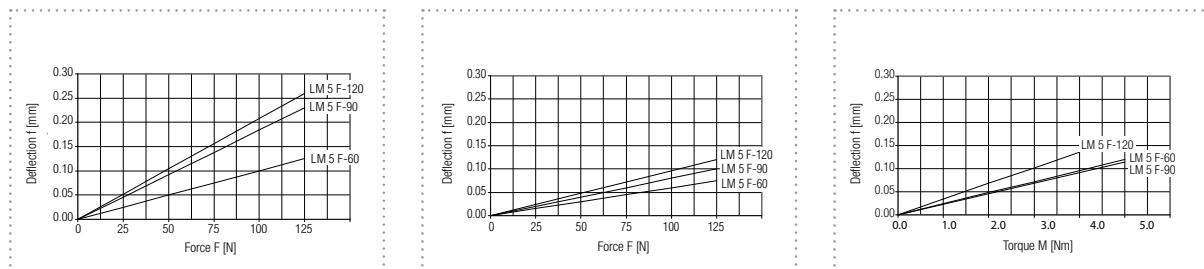
The graph shows the deflection f of the slide at point A under the effect of the torque. The deflection is independent of the stroke.



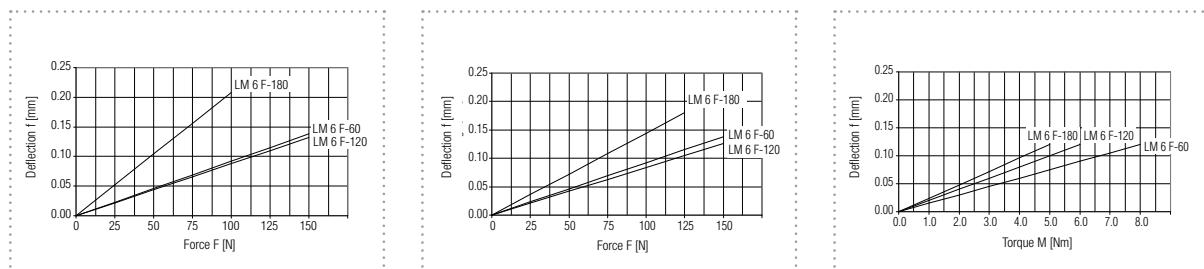
LM 4 FZ



LM 5 FZ



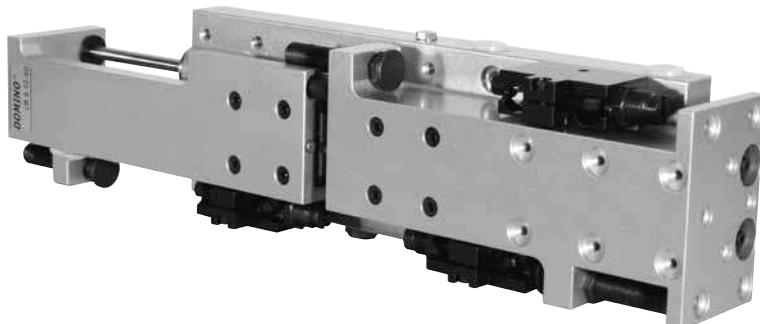
LM 6 FZ



Linear Modules with Intermediate Positions

LM 6 FZ – Pneumatic Linear Module with Intermediate Position

LM 6 FZ



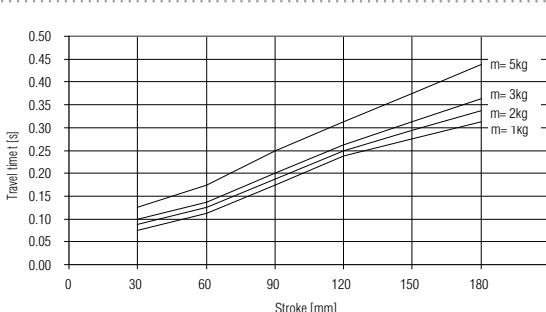
Technical data, stroke-independent

Cylinder diameter	2x16 und 2x20 mm	
Theor. force (at 5 bar)	F _a /F _z	201 N Slide 1, 364 N Slide 2
	F _b /F _z	173 N Slide 1, 364 N Slide 2
Max. speed	0,7 m/s	
Pneumatic connections	G1/8"	
Medium	Compressed-air filtered, oiled or non-oiled	
Operating pressure range	3 to 7 bar	
Temperature range	0 – 60° C	
Repeat accuracy	+/-0.01 mm	
Max. permissible mass	5 kg	
Max. static torques	M _a	40 Nm (LM6 FZ-60) 96 Nm (LM6 FZ-120)
	M _b	32 Nm 88 Nm
	M _c	56 Nm 64 Nm

Permissible travel time t relative to the stroke length and the additional mass m

The travel time t determined from the diagram may not be undershot.

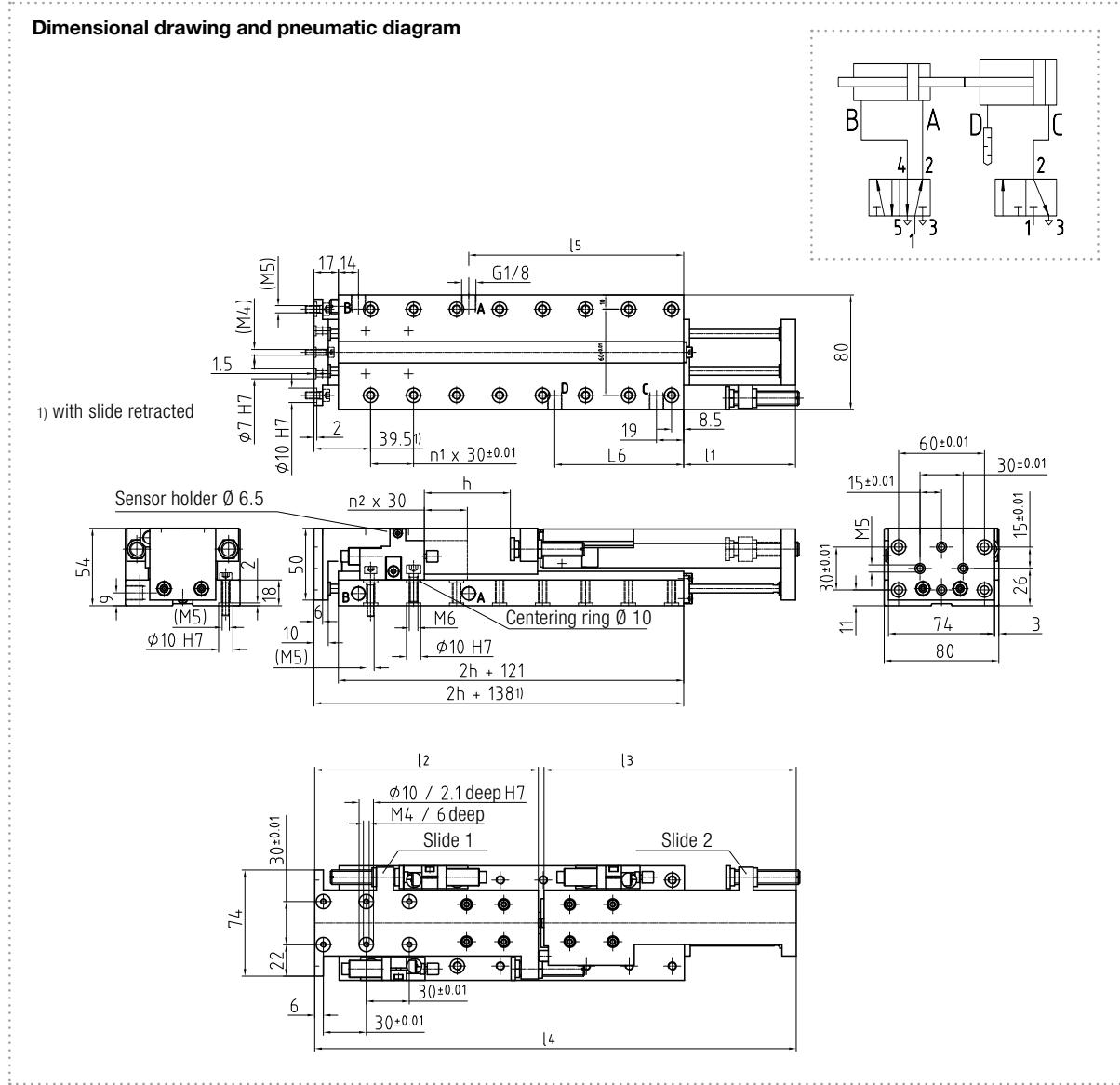
Recommendation: When selecting the module, the travel time t should be assumed as being 20% more.



Permissible travel time t = travel time without valve switching time, at nominal pressure 6 bar.

Linear Modules with Intermediate Positions

LM 6 FZ – Pneumatic Linear Module with Intermediate Position



Designation	h	l1	l2	l3	l4	l5	l6	n1	n2
LM 6 FZ-60	60	78	156	176	336	150	90	7	2
LM 6 FZ-120	120	138	244	268	516	210	150	11	4

Designation	Order number
LM 6 FZ-60	300 4981
LM 6 FZ-120	300 4982

incl. hydraulic shock absorber
and 4 centering rings Ø10

Accessories

Centering ring Ø 7	300 1521
Centering ring Ø 10	300 1522
Limit switch Ø 6,5	300 1845
Shock absorber	300 1384
Shock absorber ZA	300 1385

See chapter Accessories