

PMT 160-EDLM



Technical Data



		PMT 160				
		-050-EDLM	-100-EDLM	-150-EDLM	-200-EDLM	-260-EDLM
Travel	[mm]	50	100	150	200	260
Accuracy	[μm]	1.5	2	2	2	3
Repeatability	[μm]	± 0.3	± 0.3	± 0.3	± 0.3	± 0.3
Relative deviation from straightness / flatness						
- over 10 mm	[μm]	± 0.2	± 0.4	± 1	± 1	± 1
- over total length	[μm]	± 0.5	± 1	± 1.5	± 2	± 4
Max. speed	[mm/s]	500	500	500	500	500
Max. acceleration	[m/s ²]	10	10	10	10	10
Permissible loads	Fx [N]	30	30	30	30	30
	Fy [N]	100	100	100	100	100
	Fz [N]	200	200	200	200	200
Weight	[kg]	6.1	6.9	7.9	8.5	10.5

For more information please see definitions on pages 98,99.

Specifications

■ **3-phase synchronous ironless linear motor**

Peak / Continuous force 30 N / 6 N
 Peak / Continuous current 5 A / 1 A
 Motor constant 4.3 N/ $\sqrt{\text{W}}$

■ **Incremental linear encoder**

Resolution 0.1 μm (50 nm)

Parameters depend on controller/electronics.

■ **Travel limitation**

2 non contact limit switches

■ **Bearing**

backlash-free preloaded cross roller bearings

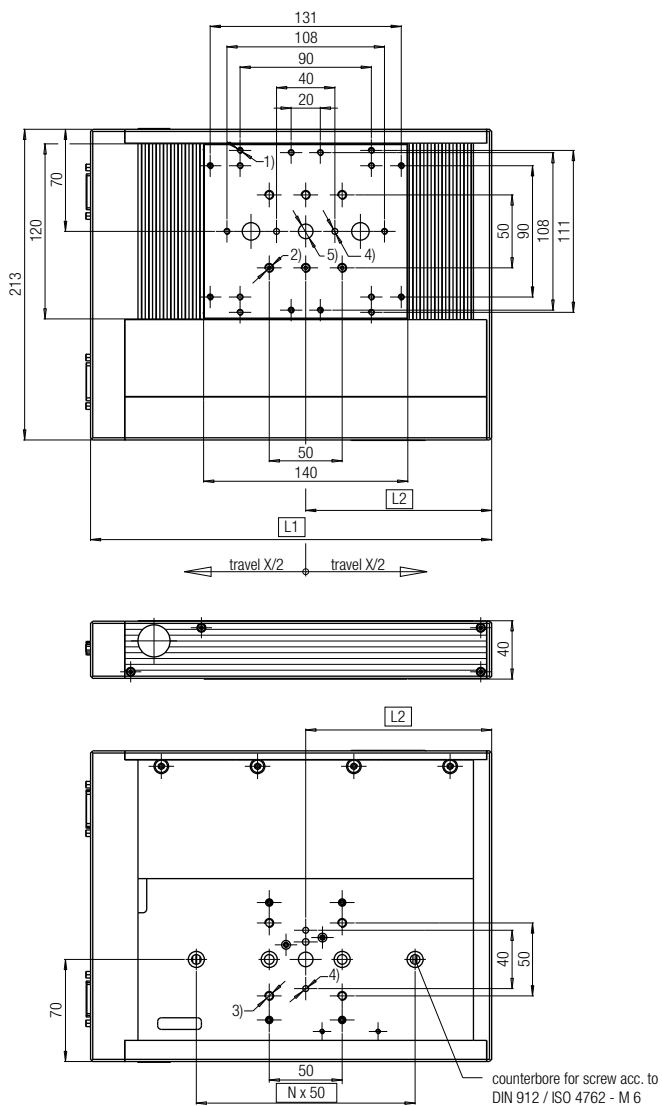
■ **Material**

low distortion aluminum alloy, black anodized

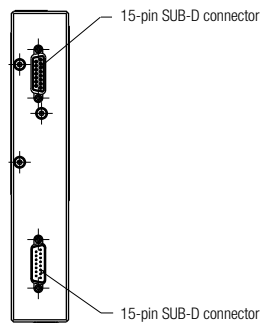
Options

- XY-Assembly without adapter plate
- Mechanical and electrical modifications on customers' request
- Different encoder resolutions and accuracies

Dimensions



example for **PMT 160-EDLM**
slide in middle position



- 1) M 4 ; depth 7 (18x)
- 2) M 6 ; depth 8 (6x)
- 3) M 6 ; depth 7 (4x)
- 4) Ø 4 H7 ; depth 6 (2x)
- 5) Ø 10 H11

PMT 160	Travel X	Size L1	Size L2	N
	[mm]	[mm]	[mm]	
-050-EDLM	50	275	127.5	3
-100-EDLM	100	315	147.5	3
-150-EDLM	150	385	182.5	5
-200-EDLM	200	460	220.0	7
-260-EDLM	260	585	282.5	7