

PMT 160-SM



Technical Data



		PMT 160				
		-050-SM	-100-SM	-150-SM	-200-SM	-300-SM
Travel	[mm]	50	100	150	200	300
Accuracy	[μ m]	± 10	± 10	± 10	± 10	± 20
Repeatability	[μ m]	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5
Backlash	[μ m]	± 1.5	± 1.5	± 1.5	± 1.5	± 1.5
Relative deviation from straightness / flatness						
- over 10 mm	[μ m]	± 0.2	± 0.4	± 1	± 1	± 1
- over total length	[μ m]	± 0.5	± 1	± 1.5	± 2	± 4
Max. speed	[mm/s]	10	10	10	10	10
Max. acceleration	[m/s ²]	0.3	0.3	0.3	0.3	0.3
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]	3.7	4.2	4.8	5.2	6.5

For more information please see definitions on pages 102, 103.

Specifications

■ **Standard 2-phase stepper motor**

Resolution 2.5 μ m / half step

■ **Recirculating precision ball screw**

Screw diameter 8 mm
Screw pitch 1 mm (optional 2 mm)

■ **Travel limitation**

2 limit stops and 2 non contact limit switches

■ **Bearing**

backlash-free preloaded cross roller bearings

■ **Material**

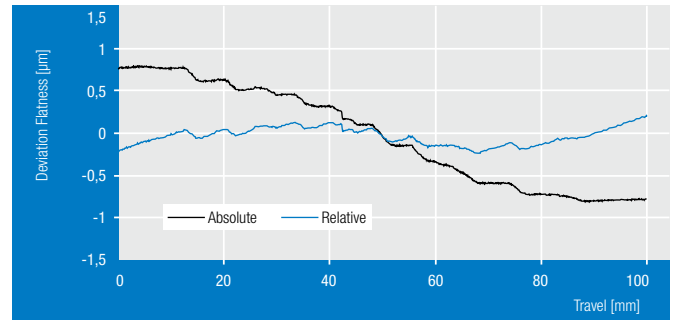
low distortion aluminum alloy, black anodized

Options

- XY-Assembly without adapter plate
- Different screw pitches for higher speed and higher loads
- Preloaded ball screws for extra high stiffness
- Different hole patterns
- Different connectors (type, size, pin-assignment)
- Additional home sensor for easy referencing
- Electromagnetic brake for vertical axis
- Vacuum preparation on request (other technical data)
- Cleanroom preparation on request
- Adaption of customer motors
- NEMA 17 or NEMA 23 flange

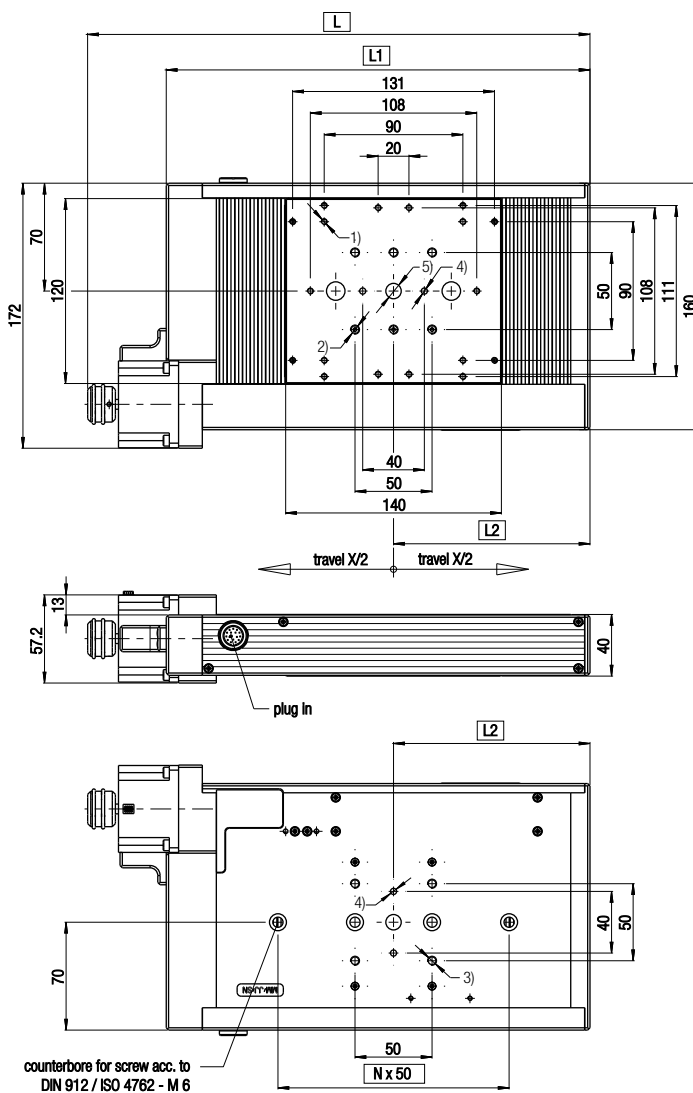
Upon request we manufacture custom tailored systems.

Characteristics

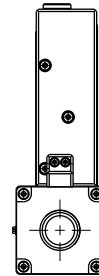


■ Typical flatness PMT 160 over total length

Dimensions



example for **PMT 160-SM**
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 [mm]	Size L [mm]	Size L1 [mm]	Size L2 [mm]	N
-050-SM	50	326	275	127.5	3
-100-SM	100	366	315	147.5	3
-150-SM	150	436	385	182.5	5
-200-SM	200	511	460	220	7
-300-SM	300	636	585	282.5	7