

Micro Stages

MT 84



Technical Data



		MT 84			
		-25-PM	-50-PM	-25-LM	-50-LM
Travel	[mm]	25	50	25	50
Accuracy	[μm]	3 (1 on request)	3 (1 on request)	3 (1 on request)	3 (1 on request)
Repeatability	[counts]	± 2	± 2	$\pm 6^*$	$\pm 6^*$
Relative deviation from straightness / flatness - over total length	[μm]	± 0.5	± 0.5	± 1	± 2
Max. speed	[mm/s]	5	5	250*	250*
Max. acceleration	[m/s ²]			$> 10^*$	$> 10^*$
Permissible loads	Fx [N]	5	5	5	5
	Fy [N]	20	20	20	20
	Fz [N]	20	20	20	20
Max. push force	[N]	5	5	15	15
Weight	[kg]	0.6	0.75	0.6	0.75

* LM values/parameters depending on duty cycle and load For more information please see definitions on pages 98,99.

Specifications

■ **Piezo linear motor -LM**
Holding force

■ **Linear motor -PM**
Holding Force

■ **Incremental linear encoder**
Resolution

HR-4
15 N; no magnetic fields

Piezo LEGS®
5 N; no magnetic fields

up to 50 nm (-LM)
up to 5 nm (-PM)

■ **Travel limitation** 2 fixed stops

■ **Bearing** backlash-free preloaded cross roller bearings

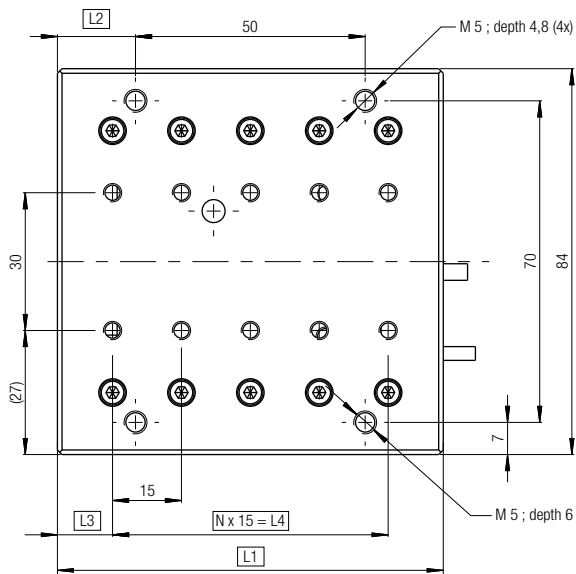
■ **Material** low distortion aluminum alloy, black anodized

Options

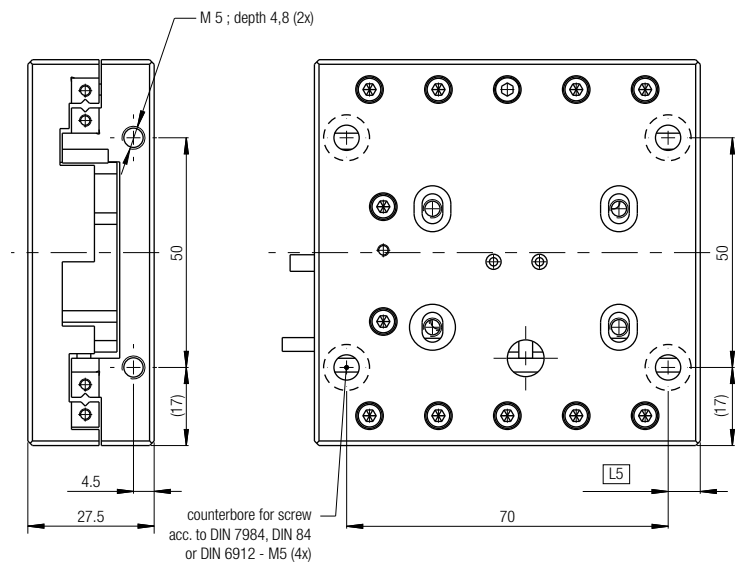
- High vacuum preparation on request (other technical data)
- Cleanroom preparation on request
- Non-magnetic preparation on request (other technical data)

Dimensions

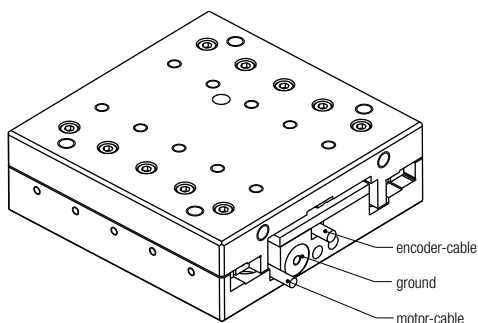
example for **MT 84**; slide in middle position



Top view



Bottom view



MT 84	Travel X	Size L1	Size L2	Size L3	Size L4	Size L5	N
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
-25...	25	84	17	12	60	7	4
-50...	50	110	30	10	90	20	6