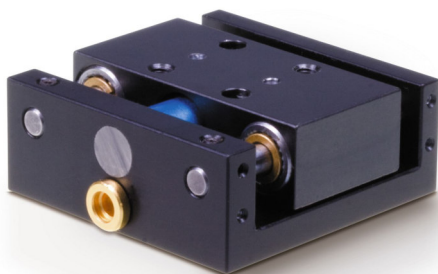


MS 30**Miniature Translation Stages
with piezo electric inertial drive****Specifications**

- Piezo driven step motor with low hysteresis
- holds reached position without current
- step width about 10 nm (depends on controller)
- positioning accuracy better than 50 nm
- velocity up to 1.2 mm/s (depends on controller)
- travels up to 60 mm possible
- open- or closed loop-application
- xy or xyz combinations
- CNC-machined aluminium body
- precision ball bearing guides
- no limit switches necessary
- vacuum preparation optionally
- customized designs possible
- driven by hand-held (CN.030.0001)
or USB controller (CU.030.xx0x)
or USB controller (CF.030.xx0x)

Application Examples

- Micro-/Nano Technology
- Bio Technology
- Microscopy
- Quality Control
- Metrology
- R & D

Technical Data

Travel:	8, 18 or 30 mm
Max. speed:	1.2 mm/s (depends on controller)
Mass:	32, 38 or 54 g

Load characteristics

Max. load	
M_x, M_y, M_z	0.5 Nm
F_x (blocking force)	4.5 (5) N
F_y, F_z	30 N

Resolution (calculated)

Single step	~ 600 nm
1/16-step	~ 30 nm
(with controller CU 30)	
1/64-step	~ 10 nm
(with controller CF 30)	
Half step	~ 300 nm
Double step	~ 1200 nm
(with controller CN 30)	

Guidance accuracy (without load)

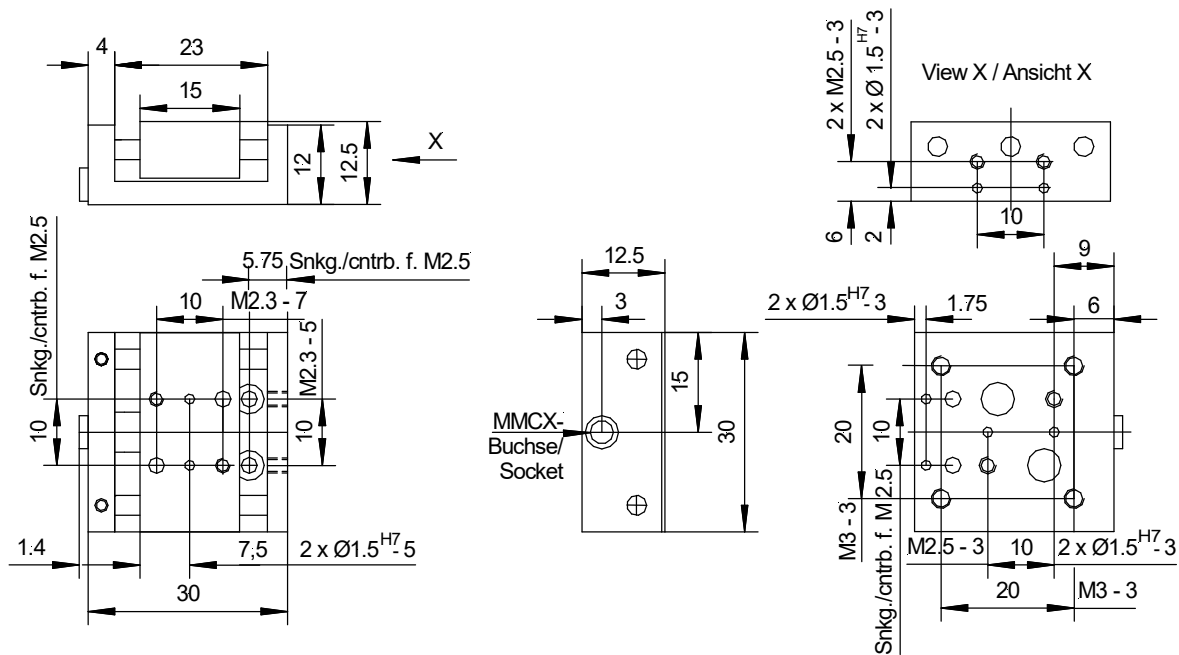
For xx mm travel:	8	18	30
Yaw angle (μ rad)	± 120	± 120	± 120
Pitch angle (μ rad)	± 60	± 80	± 100
Straightness /)	± 0.7	± 1.5	± 3.0
Flatness (μ m)			

**Miniature Translation
Stage MS 30****Part no.****MS.030.**

	08	18	30
Travel	8 mm	18 mm	30 mm
	0	6	9
Vacuum	no	10^{-6}	10^{-9}
	0	1	
Measuring-system	without	with (please specify with sensor)	

Series MS

MS 30, 8 mm travel



MS 30, 18 and 30 mm travel

Travel	A	B	C	D
18	40	33	10	15
30	52	45	16	21

