



Linear Stage 5101.07

- compact linear stage for the positioning of light samples or mountings
- multi-axis positioning systems possible by simple combination of stages
- wear resistant delta bronze nut
- equipped with Faulhaber or Oriental stepper motor, flange size 20mm
- grounded and tempered thread spindle (self-locking)
- robust surfaces through galvanic natural-anodising treatment

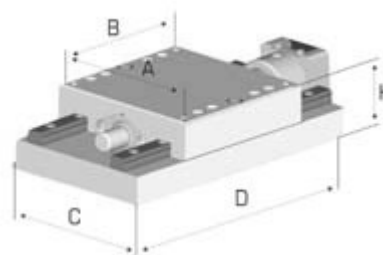
Modularly individually configurable:

- to multi-axis systems
- with individual travel range
- with customer-specific hole pattern

Application specific versions:

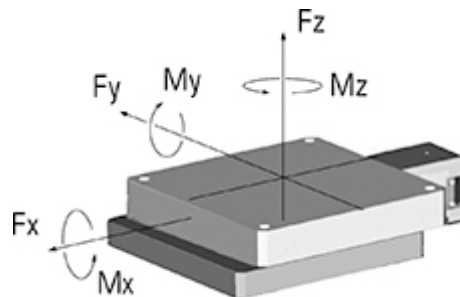
- vacuum suitable
- antimagnetic
- in black

Dimensions [mm]:



A:	B:	C:	D:	H:
58	58	80	90	16/20.5

Maximum load:



Fx [N]:	55
Fy [N]:	55
Fz↑ [N]:	55
Fz↓ [N]:	55
ΣF [N]:	(≤) 55
Mx [Nm]:	4.5 [=Fy x (z+0.005)] **
My [Nm]:	6 [=Fx x (z+0.005)] **
Mz [Nm]:	4.5
ΣM [Nm]:	(≤) 6.5

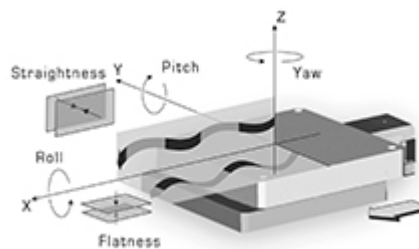
** z: distance from mounting surface to centre of gravity of load [m]

Specifications:

Travel range [mm]:	12*
Material (base/slide):	Aluminium
Spindle pitch [mm]:	0.5
Max. load Fz↓ [N]:	55
Min. drive torque [Nm]:	0.02
Stiffness ["/Nm]:	35
Weight [kg]:	0.35

* optional: extended or shortened travel range

Precision configurations:



X1

Accuracy [μm]:	(+/-)	6
Repeatability (unidir.) [μm]:	(+/-)	1
Reversal error [μm]:		1
Flatness [μm]:	(+/-)	4
Straightness [μm]:	(+/-)	4
Yaw ["]:	(+/-)	3
Pitch ["]:	(+/-)	3
Roll ["]:	(+/-)	3

Accessories:

Motors:	2-/5-Ph. Servo/DC
Hand wheels:	0032
Gear boxes:	2042.10* 2042.20*
Limit switches:	included
Adjustable limit switches:	optional
Zero-point control:	9100
Encoder XE :	incremental absolute
Control system:	9300

* adaptor required: M301.301-001

online 3D available in main image on the left



