



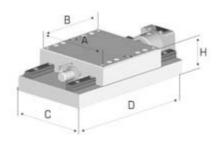
Linear Stage 5101.10

- multi-axis positioning systems possible by simple combination of stages
- wear resistant delta bronze spindle nut
- mounting of drive spindle free of play
- optionally available with precision ball-roll, thread-roll or ground thread spindle
- use of low-friction guides results in optimum fine adjustment due to high reproducibility of minimum system step distance
- use of stress-relieved, highly resilient materials guarantees high system stability and long life
- robust surfaces through galvanic natural-anodising treatment
- three precision configurations

Modularly individually configurable:

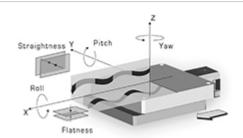
- from basic model to high-end system
- to multi-axis systems
- with individual travel range
- with customer-specific hole pattern

Dimensionen [mm]:



A: B: C: D: H: 80 80 80 144 35

Precision configurations:





		X1	X2	XE
Accuracy [µm]:	(+/-)	20	15	on request
Repeatability (unidir.) [µm]:	(+/-)	3	2	on request
Reversal error [μm]:		8	4	on request
Flatness [μm]:	(+/-)	3	2	2
Straightness [µm]:	(+/-)	3	2	2
Yaw ["]:	(+/-)	6	4	4
Pitch ["]:	(+/-)	9	5	5
Roll ["]:	(+/-)	9	5	5

Application specific versions:

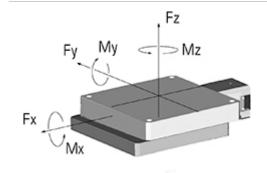
- vacuum suitable
- antimagnetic
- radiation resistant
- in black

Specifications:

Travel range [mm]:	60*
Material (base/slide):	Aluminium
Spindle pitch [mm]:	1
Max. load Fz↓ [N]:	1200
Min. drive torque [Nm]:	0.1
Stiffness ["/Nm]:	4
Weight [kg]:	1

^{*} optional: extended or shortened travel range

Maximum load:



Fx [N]: 130



Fy [N]:	150
Fz↑ [N]:	950
Fz↓ [N]:	1200
Mx [Nm]:	25
My [Nm]:	15
Mz [Nm]:	10

 $S = \frac{1}{\frac{Fy}{Fy max} + \frac{Fz}{Fz max} + \frac{Mx}{Mx max} + \frac{My}{My max} + \frac{Mz}{Mz max}}$

Accessories:

Motors: 2-/5-Phase 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

For the safety S must apply; S≥ 1*

For the calculation of the single maximum forces, safety factors have already been taken into account

^{*} adaptor required: M301.301-001



