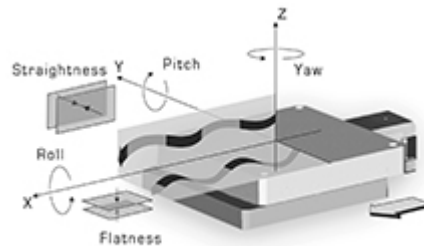


Linear Stage 5101.20

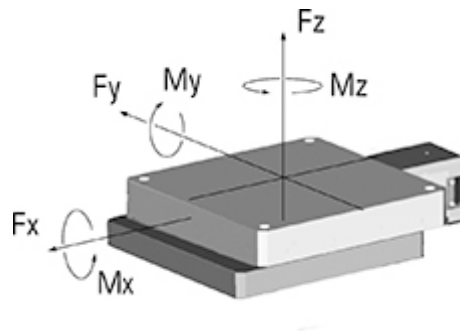
- multi-axis positioning systems possible by simple combination of stages
- wear resistant delta bronze spindle nut
- mounting of drive spindle free of play
- optionally available with precision ball-roll, thread-roll or ground thread spindle
- use of low-friction guides results in optimum fine adjustment 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

Precision configurations:



		X1	X2	XE
Accuracy [μm]:	(+/-) 10	4	on request	
Repeatability (unidir.) [μm]:	(+/-) 3	2	on request	
Reversal error [μm]:	6	4	on request	
Flatness [μm]:	(+/-) 3	2	2	
Straightness [μm]:	(+/-) 3	2	2	
Yaw ["]:	(+/-) 6	4	4	
Pitch ["]:	(+/-) 6	4	4	
Roll ["]:	(+/-) 6	4	4	

Maximale Belastungen:



Fx [N]:	170
Fy [N]:	240
Fz↑ [N]:	1100
Fz↓ [N]:	2200
Mx [Nm]:	35
My [Nm]:	25
Mz [Nm]:	20

$$S = \frac{1}{\sqrt{\frac{F_x^2}{F_{x \max}^2} + \frac{F_y^2}{F_{y \max}^2} + \frac{F_z^2}{F_{z \max}^2} + \frac{M_x^2}{M_{x \max}^2} + \frac{M_y^2}{M_{y \max}^2} + \frac{M_z^2}{M_{z \max}^2}}}$$

For the safety S must apply: $S \geq 1^*$

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

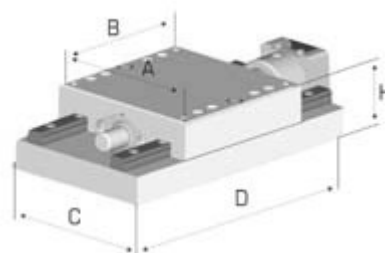
Application specific versions:

- vacuum suitable
- antimagnetic
- radiation resistant
- in black

Modularly individually configurable:

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

Dimensions [mm]:



A:	B:	C:	D:	H:
102	100	100	216	62

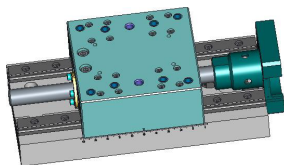
Specifications:

Travel range [mm]:	100*
Material (base/slide):	Aluminium
Spindle pitch [mm]:	2
Max. load $F_z \downarrow$ [N]:	2200
Min. drive torque [Nm]:	0.6
Stiffness ["/Nm]:	1.8
Weight [kg]:	2.8

* optional: extended or shortened travel range

Accessories:

Motors:	2-/3-/5-Ph. Servo/DC
Hand wheels:	0056
Gear boxes:	2056.05 2056.10 2056.20
Limit switches:	included
Adjustable limit switches:	optional
Zero-point control:	9100
Encoder XE :	incremental absolute
Control system:	9300



1:5

