

Linear Stage 5101.35

- multi-axis positioning systems possible by simple combination of stages
- optionally available with precision ball-roll, thread-roll or ground thread spindle
- wear resistant delta bronze spindle nut
- mounting of drive spindle free of play
- 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

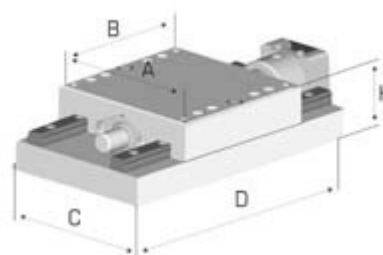
Modularly individually configurable:

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

Application specific versions:

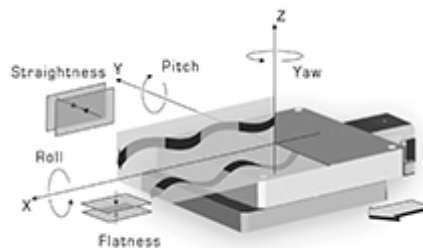
- vacuum suitable
- antimagnetic
- radiation resistant
- in black

Dimensions [mm]:



A:	B:	C:	D:	H:
171	170	170	294	62

Precision configurations:



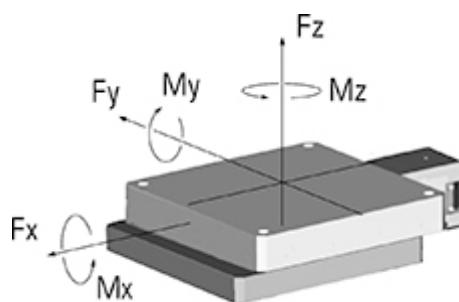
		X1	X2	XE
Accuracy [μm]:	(+/-) 10	4	on request	
Repeatability (unidir.) [μm]:	(+/-) 3	2	on request	
Reversal error [μm]:	6	4	on request	
Flatness [μm]:	(+/-) 3	2	2	
Straightness [μm]:	(+/-) 3	2	2	
Yaw ["]:	(+/-) 6	4	4	
Pitch ["]:	(+/-) 6	4	4	
Roll ["]:	(+/-) 6	4	4	

Specifications:

Travel range [mm]:	100*
Material (base/slide):	Aluminium
Spindle pitch [mm]:	2
Max. load $F_z \downarrow$ [N]:	3250
Min. drive torque [Nm]:	0.6
Stiffness ["/Nm]:	0.7
Weight [kg]:	6.7

* optional: extended or shortened travel range

Maximum load:



Fx [N]:	170
Fy [N]:	230
Fz↑ [N]:	1200
Fz↓ [N]:	3250
Mx [Nm]:	75
My [Nm]:	70

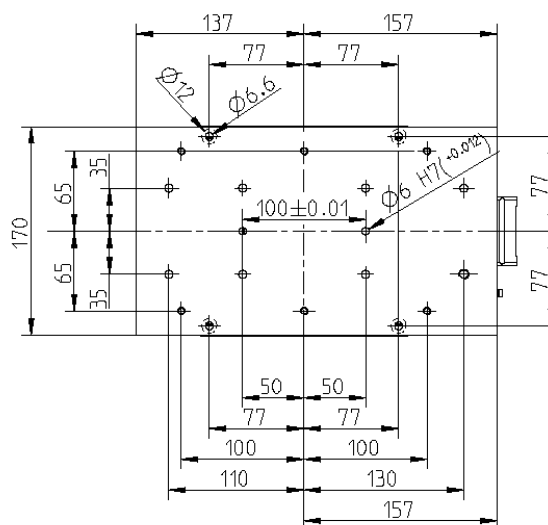
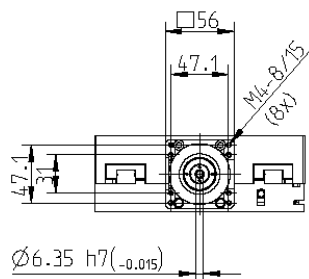
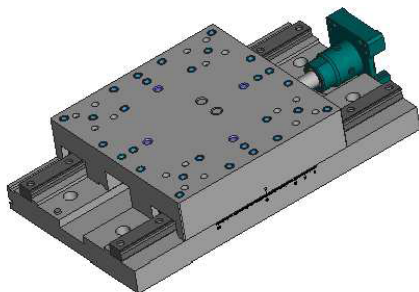
$$S = \frac{1}{\frac{F_x}{F_{x \max}} + \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}}}$$

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.

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



Translation ± 50 mm

