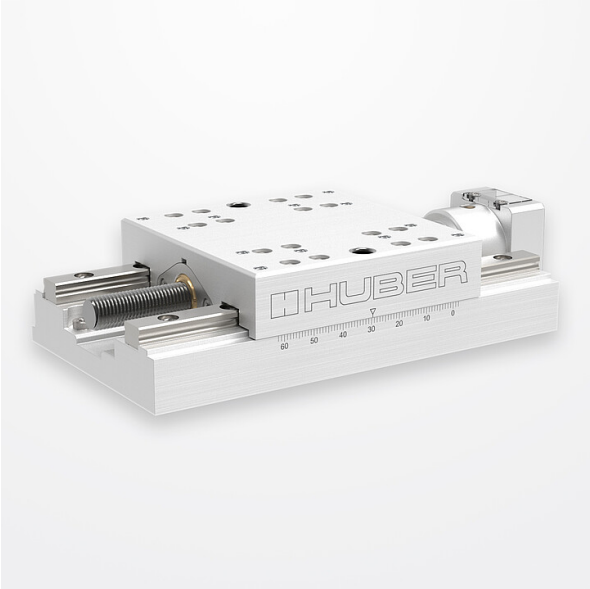


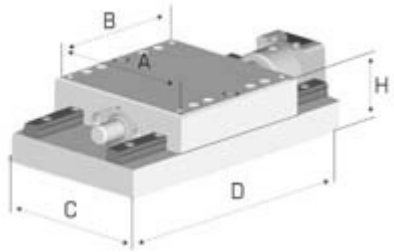
Linear Stage 5101.10

- 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:

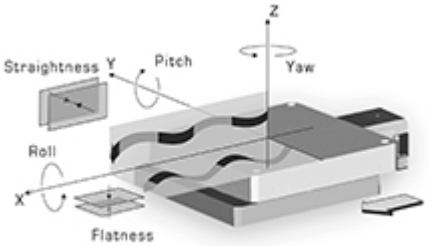
- from basic model to high-end system
- to multi-axis systems
- with individual travel range
- with customer-specific hole pattern

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:

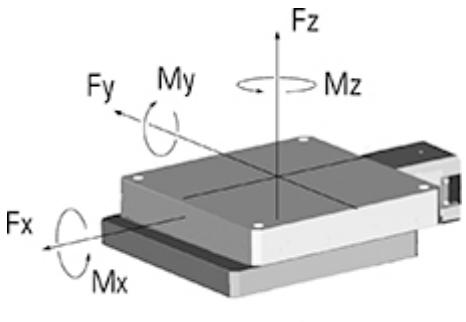
- vacuum suitable
- antimagnetic
- radiation resistant
- in black

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

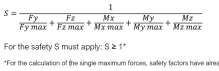
* optional: extended or shortened travel range

Maximum load:



Fx [N]:	130

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



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

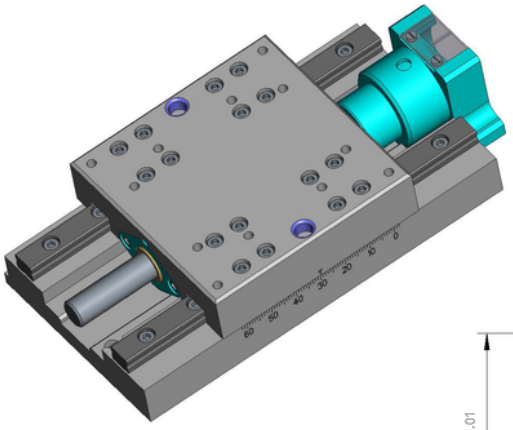
For the safety S must apply: S ≥ 1*

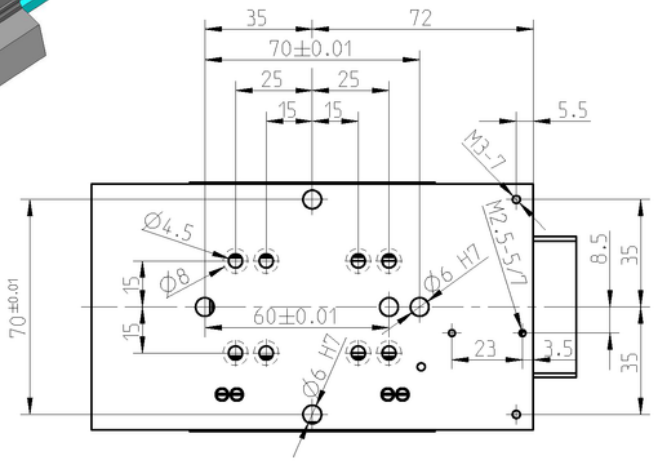
*For the calculation of the single maximum forces, safety factors have already been taken into account.

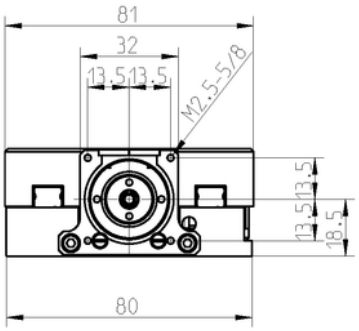
Accessories:

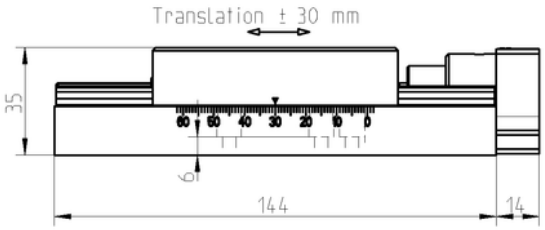
Motors:	2-/5-Phase Servo/DC
Hand wheels:	0032
Gear boxes:	2042.10*
	2042.20*
Limit switches:	included
Adjustable limit switches:	optional
Zero-point control:	9100
Encoder XE :	incremental
	absolute
Control system:	9300

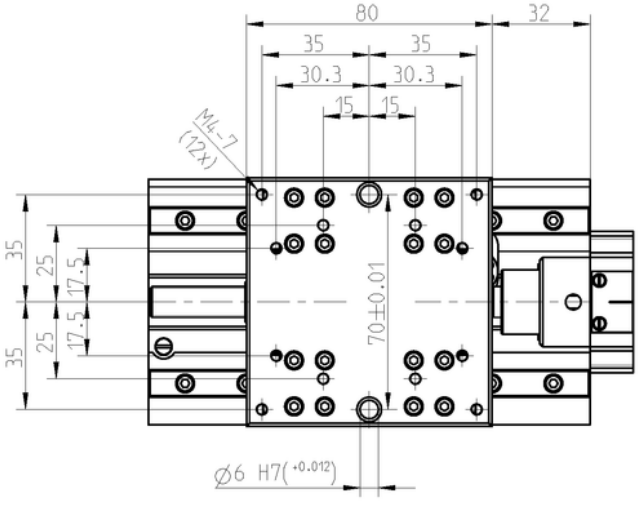
* adaptor required: M301.301-001




35
72
70±0.01
25
25
15
15
5.5
M3-7
Ø4.5
Ø8
Ø6 H7
M2.5-5/7
8.5
35
70±0.01
15
15
60±0.01
23
3.5
35
Ø6 H7


81
32
13.5
13.5
M2.5-5/8
13.5
13.5
18.5
80


Translation ± 30 mm
35
144
14


80
32
35
35
30.3
30.3
15
15
M4-7
(12x)
35
25
17.5
17.5
25
35
70±0.01
Ø6 H7(+0.012)