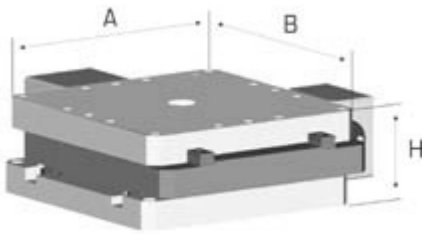
XY-Stage 5102.15

- multi-axis positioning systems possible by simple combination of stages
- high-precision spindle drive with smoothed and tempered spindle (self-locking)
- 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 anodisation
- three precision configurations (X2 : values on request)

Application specific versions:

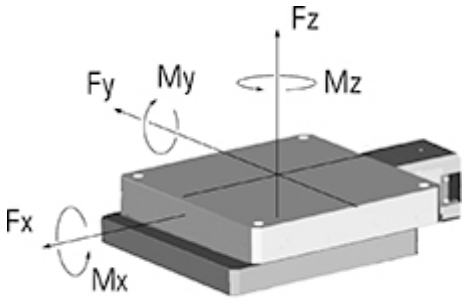
- vacuum suitable
- antimagnetic
- radiation resistant
- in black

Dimensions [mm]:



A:	B:	H:
125	125	54

Maximum load:



A general statement of maximum load and torque capacities is not possible for eccentric forces due to the amount of different configurations.
However, our engineers will gladly calculate the maximum load capacity for your specific application.

Specifications:

Travel range [mm]:	+/- 25
Material (base/slide):	Aluminium
Spindle pitch [mm]:	1
Max. load [N]:	500
Min. drive torque [Nm]:	0.3
Stiffness ["/Nm]:	3
Weight [kg]:	2.8

Modularly individually configurable:

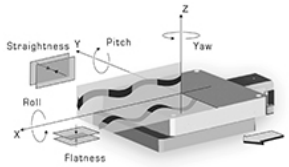
- from basic model to high-end system
- to multi-axis systems
- with customer-specific hole pattern

Accessories:

Motores:	2-/5-Ph.
	Servo/DC
Hand wheel:	0042
Gear box:	2042.10
	2042.20
Limit switch:	inclusive
Zero Point control:	9100
Encoder XE :	incremental

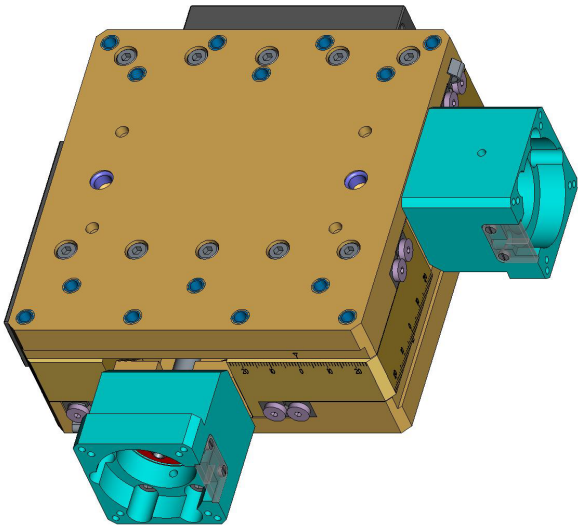
	absolute
Controller:	9300

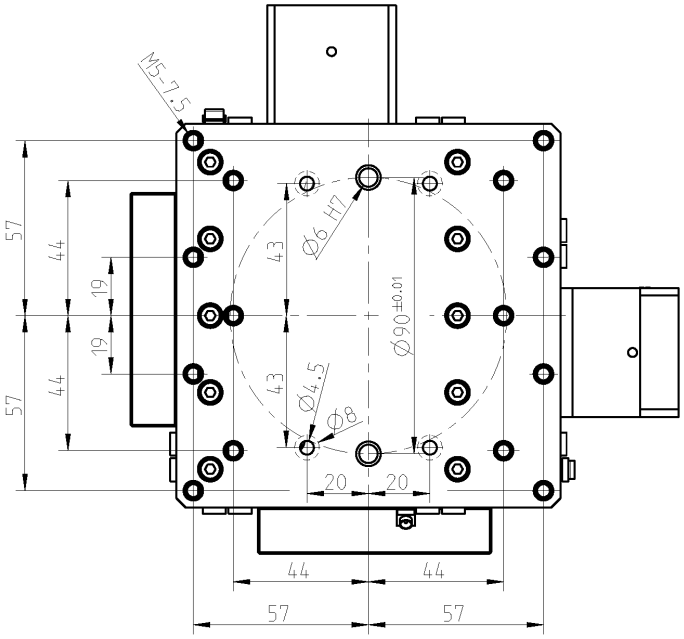
Precision configurations:

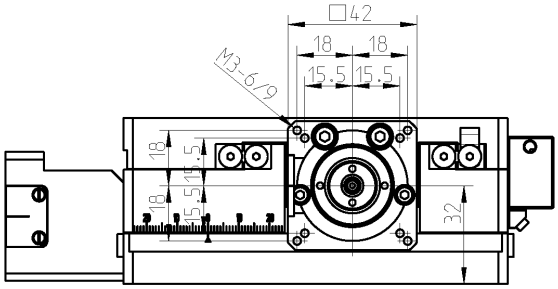


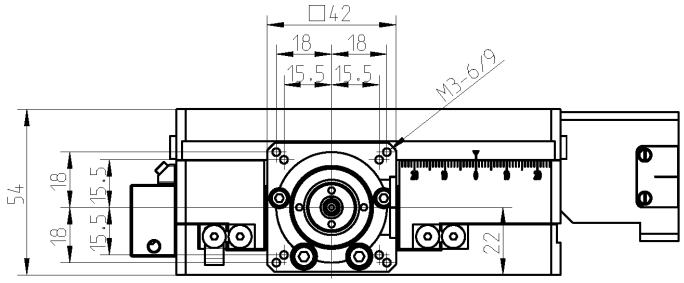
		X1	XE
Accuracy [µm]:	(+/-)	14	on request
Repeatability (unidir.) [µm]:	(+/-)	5	on request
Reversal error [µm]:		4	on request
Flatness [µm]:	(+/-)	3	3
Straightness [µm]:	(+/-)	3	3
Yaw ["]:	(+/-)	5	5
Pitch ["]:	(+/-)	6	6
Roll ["]:	(+/-)	6	6

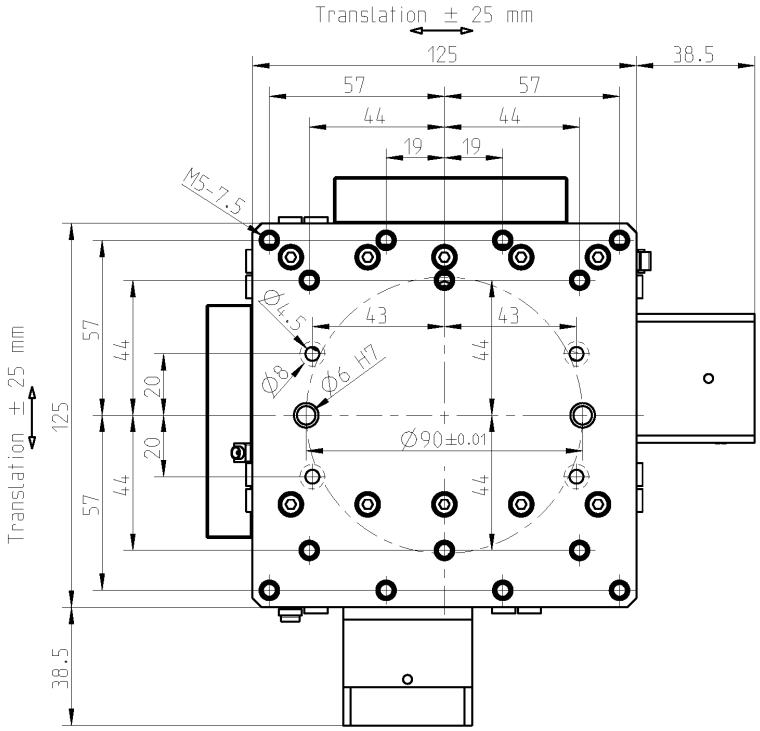
X2 : values on request




M5-7.5
57
44
19
19
44
57
43
Ø6 H7
Ø90±0.01
43
Ø4.5
Ø8
20
20
44
44
57
57


□42
18
18
15.5
15.5
M3-6/9
18
15.5
18
15.5
32


□42
18
18
15.5
15.5
M3-6/9
54
18
15.5
18
15.5
22


Translation ± 25 mm
125
38.5
57
57
44
44
19
19
M5-7.5
Ø4.5
43
43
Ø8
Ø6 H7
44
20
20
Ø90±0.01
44
Translation ± 25 mm
125
57
44
57
44
38.5