

Z-Stage 5103.A10

- multi-axis positioning systems possible by simple combination of stages (e.g. with 5102.10, 5203.10)
- use of low-friction plastic slideway high-precision pillar 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
- high-precision worm gear drive
- robust surfaces through galvanic anodisation
- three precision configurations

Modularly individually configurable:

- from basic model to high-end system
- to multi-axis systems
- with option of three spindle pitches
- with customer-specific hole pattern

Specifications:

Travel range [mm]:	15*
Material (housing/plates):	Aluminium
Spindle pitch [mm]:	0.02 standard / optional 0.04 / 0.10
Resolution [µm] (400 steps/rev):	0.05 standard / optional 0.1 / 0.25
Max. load [N]:	300
Min. drive torque [Nm]:	0.05
Stiffness ["/Nm]:	12
Weight [kg]:	1.5
	*35mm on request; different total height!

Dimensions [mm]:

A:	B:	H1:	H2:
100	100	55	55+15

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.

Application specific versions:

- vacuum suitable
- antimagnetic
- radiation resistant
- in black

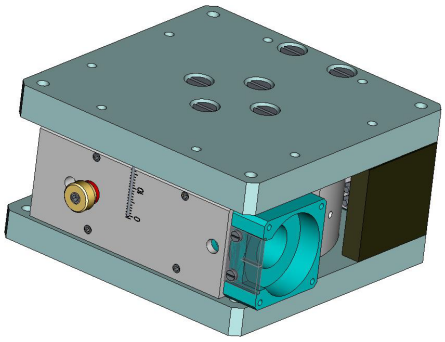
Precision configurations:

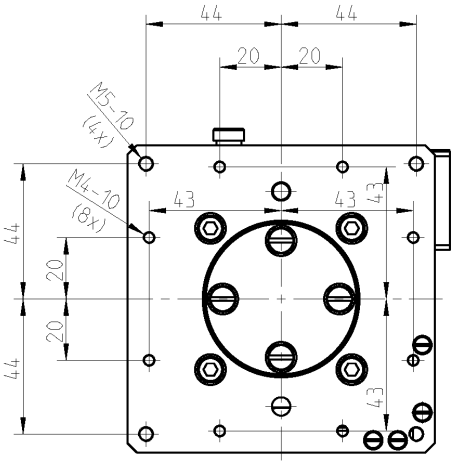
		X1	X2	XE
Accuracy [µm]:	(+/-)	7	3	on request
Repeatability (unidir.) [µm]:	(+/-)	3	2	on request
Reversal error [µm]:		10	3	on request
Flatness [µm]:	(+/-)	12	5	5
Straightness [µm]:	(+/-)	12	5	5
Yaw ["]:	(+/-)	14	8	8
Pitch ["]:	(+/-)	14	8	8
Roll ["]:	(+/-)	14	8	8

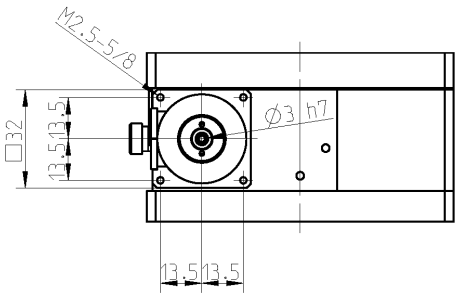
Accessories:

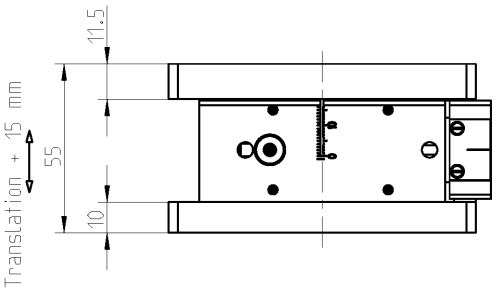
Motors:	2-/5-Ph.
	Servo/DC
Hand wheels:	0032
Gear boxes:	2042.10*
	2042.20*
Limit switches:	included
Zero-point control:	9100
Encoder XE :	incremental
	absolute
Control system:	9300

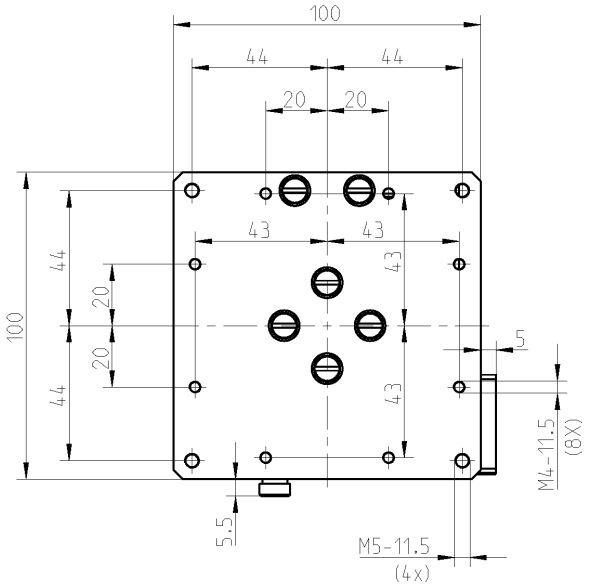
* adaptor required: M301.301-001




44
44
20
20
M5-10
(4x)
M4-10
(8x)
43
43
43
44
20
20
44
43


M2.5-5/8
□32
13.5
13.5
Ø3 h7
13.5
13.5


11.5
Translation + 15 mm
55
10


100
44
44
20
20
43
43
100
44
20
20
44
43
43
5
M4-11.5
(8X)
5.5
M5-11.5
(4x)