



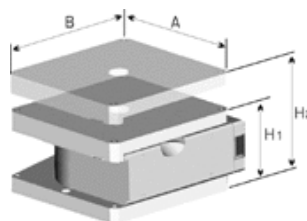
## Z-Stage 5103.A20-90

- multi-axis positioning systems possible by simple combination of stages (e.g. with 5102.20, 5203.20)
- 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

### Specifications:

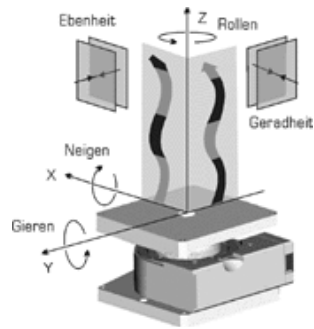
Travel range [mm]:	90
Material (housing/plates):	Aluminium
Spindle pitch [mm]:	0.02 standard / 0.06 optional
Resolution [ $\mu\text{m}$ ] (400 steps/rev):	0.05 standard / 0.15 optional
Max. load [N]:	1500
Min. drive torque [Nm]:	0.3
Stiffness [ $^{\circ}/\text{Nm}$ ]:	2.5
Weight [kg]:	11

### Dimensions [mm]:



A:	B:	H1:	H2:
170	170	140	140+90

### Precision configurations:



	X1	X2	XE
Accuracy [ $\mu\text{m}$ ]:	(+/-) 5	3	on request
Repeatability (unidir.) [ $\mu\text{m}$ ]:	(+/-) 3	1	on request
Reversal error [ $\mu\text{m}$ ]:	14	8	on request
Flatness [ $\mu\text{m}$ ]:	(+/-) 7	5	5
Straightness [ $\mu\text{m}$ ]:	(+/-) 7	5	5
Yaw [°]:	(+/-) 12	8	8
Pitch [°]:	(+/-) 12	8	8
Roll [°]:	(+/-) 13	9	9

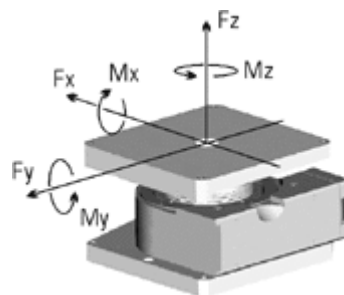
### Application specific versions:

- vacuum suitable
- antimagnetic
- radiation resistant
- in black

### Modularly individually configurable:

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

### 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.

## Accessories:

---

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

