

## 1-Circle Segment 5202.20

- multi-axis positioning systems possible by simple combination of stages
- high-precision worm gear drive with smoothed and tempered worm gear (self-locking)
- dovetail guides with fitted bronze slideways
- use stress-relieved, highly resilient materials guarantees high system stability and long life
- robust surfaces through nickel-/chrome treatment
- two precision configurations

### Modularly individually configurable:

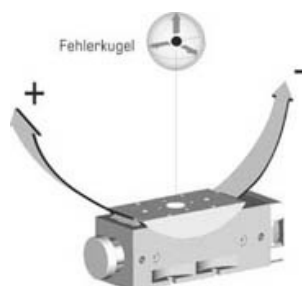
- from basic model to high-end system
- to multi-axis systems
- with customer-specific hole pattern

### Specifications:

Travel range [°]:	+/- 20 (adjustable limit switches)
Material (housing/worm gear):	Bronze
Gear ratio:	360:1
Resolution [°]:	0.001*
	0.00005 minimum
Max. load [N]:	1000
Min. drive torque [Nm]:	0.5
Weight [kg]:	4 (without motor)
Flange size [mm]:	56

\* step motor, 1000 steps /revolution

### Precision configurations:



	<b>X1</b>	<b>XE</b>
Sphere of conf. [μm]:	(+/-) 12	12

Accuracy ["]:	(+/-) 20	on request
Repeatability (unidir.) ["]:	(+/-) 3	on request
Reversal error ["]:	6	on request

### Application specific versions:

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- vacuum suitable
- antimagnetic
- radiation resistant
- in black

### Maximum load:

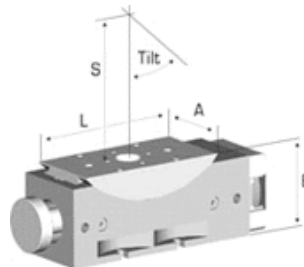
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A general statement of maximum load and torque capacities is not possible for eccentric forces due to the amount of different configurations.

However, our engineers will gladly calculate the maximum load capacity for your specific application.

### Dimensions:

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S [mm]:	Tilt [°]:	L [mm]:	A [mm]:	B [mm]:
170	+/- 20	170	60	84

### Accessories:

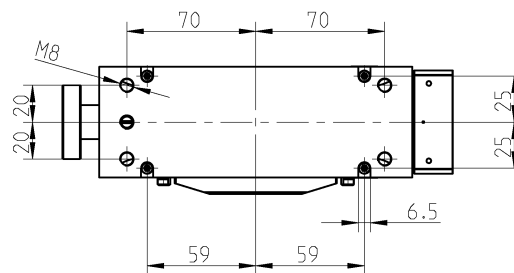
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Motors:	2-/3-/5-Ph. Servo/DC
Hand wheels:	0056
Gear boxes:	2056.05 2056.10 2056.20
Limit switches:	included
Zero-point control:	9100

Encoder **XE** : inkremental

absolute

Control system: 9300



Rotation  $\pm 20^\circ$

