



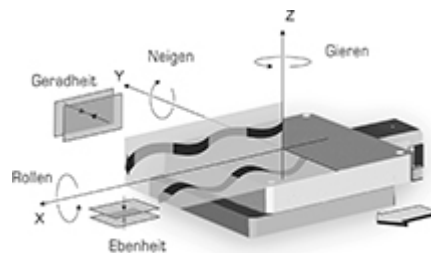
## XY-Stage 5102.18

- multi-axis positioning systems possible by simple combination of stages (e.g. with 5104.B20)
- high-precision ball roll spindle (two precision configurations available) or optional smoothed and tempered thread spindle
- reduced dimensions due to belt drive
- use of low-friction guides results in optimum fine adjustment due to high reproducibility of minimum system step distance
- 2-phase step motors as standard motorisation (5-phase step motors optional)
- robust surfaces through galvanic anodisation
- two precision configurations

### Application specific versions:

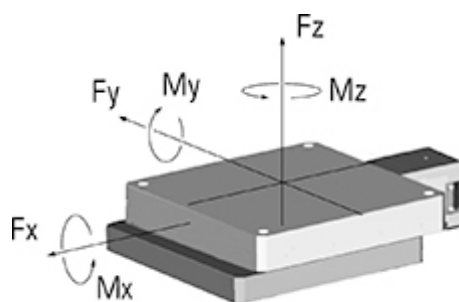
- radiation resistant
- in black

### Precision classes:



		X1	X2
Accuracy [ $\mu\text{m}$ ]:	(+/-)	50	15
Repeatability (unidir.) [ $\mu\text{m}$ ]:	(+/-)	5	3
Reversal error [ $\mu\text{m}$ ]:		5	3
Flatness [ $\mu\text{m}$ ]:	(+/-)	15	15
Straightness [ $\mu\text{m}$ ]:	(+/-)	10	10
Yaw ["]:	(+/-)	15	15
Pitch ["]:	(+/-)	30	20
Roll ["]:	(+/-)	20	20

### 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:

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Motors:	2-Ph. included 5-Ph. optional
Limit switches:	included
Zero-point Control:	included
Control system:	9300

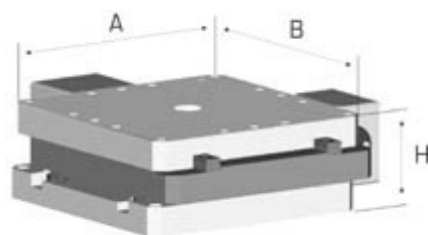
### Technical data motor:

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Type:	PK 244
Number of phases:	2
Socket configuration:	SUB D15
Steps/revolution:	200/400
Rated current [A/Phase]:	1.2
Resistance [Ohm/Phase]:	3.3
Holding torque [Nm]:	0.26

### Dimensions [mm]:

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A:	B:	H:
150	150	62

### Specifications:

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Travel range [mm]:	+/- 75
Material (base/slide):	Aluminium
Spindle pitch [mm]:	2
Max. load [N]:	300
Min. drive torque [Nm]:	0.25
Stiffness ["/Nm]:	10
Weight [kg]:	4

