

### Linear Stage 5101.30

- multi-axis positioning systems possible by simple combination of stages
- optionally available with precision ball-roll, thread-roll or ground thread spindle
- 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 natural-anodising treatment
- three precision configurations

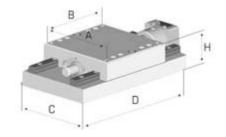
### Modularly individually configurable:

- from basic model to high-end systems
- to multi-axis systems
- with individual travel range
- with customer-specific hole pattern

### Application specific versions:

- vacuum suitable
- antimagnetic
- radiation resistant
- in black

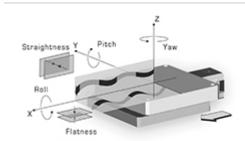
#### Dimensions [mm]:



A:	B:	C:	D:	H:
151	150	150	274	62



# Precision configurations:



		X1	X2	XE
Accuracy [µm]:	(+/-)	10	4	on request
Repeatability (unidir.) [μm]:	(+/-)	3	2	on request
Reversal error [μm]:		6	4	on request
Flatness [µm]:	(+/-)	3	2	2
Straightness [µm]:	(+/-)	3	2	2
Yaw ["]:	(+/-)	6	4	4
Pitch ["]:	(+/-)	6	4	4
Roll ["]:	(+/-)	6	4	4

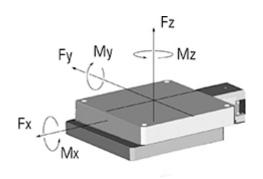
## Specifications:

Travel range [mm]:	100*
Material (base/slide):	Aluminium
Spindle pitch [mm]:	2
Max. load Fz↓ [N]:	3250
Min. drive torque [Nm]:	0.6
Stiffness ["/Nm]:	0.7
Weight [kg]:	5.5

<sup>\*</sup> optional: extended or shortened travel range

### Maximum load:





Fx [N]:	170
Fy [N]:	230
Fz↑ [N]:	1200
Fz↓ [N]:	3250
Mx [Nm]:	70
My [Nm]:	65
Mz [Nm]:	35

 $S = \frac{1}{Fy} \frac{Fz}{Fx \max} + \frac{Mx}{Mx \max} + \frac{My}{Mx \max} + \frac{Mz}{Mx \max}$ For the adelty  $S \max$  apply,  $S \ge t^+$ For the classifies of the large macroniforous, safely latter have already been taken into account.

### Accessories:

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



