



Linear Stage 5101.30H-300 X2

The linear table type 5101.30 in precision configuration X2 with an operational range of 300mm is exemplary for the precision technology of the series 5101.

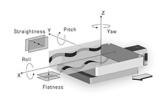
- high-precision recirculating ball spindle
- drive and guide components manually adjusted and controlled with up-to-date measurement technology
- mounting of drive spindle free of play
- use of low-friction guides results in optimum fine adjustment due to high reproducibility of minimum system step distance
- use of stress-relieved, highly resilient materials guarantees high system stability and long life
- robust surfaces through galvanic natural-anodising treatment

Specifications:

Travel range [mm]:	300*
Material (base/slide):	Aluminium
Spindle pitch [mm]:	2
Max. load Fz↓ [N]:	7600
Min. drive torque [Nm]:	0.6
Stiffness ["/Nm]:	0.7
Weight [kg]:	11

^{*} optional: extended or shortened travel range

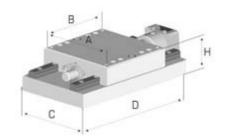
Precision configurations:



Accuracy [μm]:	(+/-)	10	on request
Repeatability (unidir.) [µm]:	(+/-)	2	on request
Reversal error [µm]:		6	on request
Flatness [µm]:	(+/-)	3.5	3.5
Straightness [µm]:	(+/-)	3.5	3.5
Yaw ["]:	(+/-)	2.5	2.5
Pitch ["]:	(+/-)	3.5	3.5
Roll ["]:	(+/-)	2.5	2.5



Dimensions [mm]:



A: B: C: D: H: 151 150 150 475 75

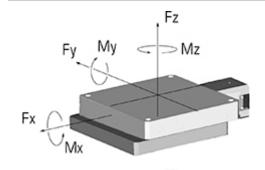
Application specific versions:

- vacuum suitable
- antimagnetic
- radiation resistant
- in black

Modularly individually configurable:

- to multi-axis systems
- with individual travel range
- with customer-specific hole pattern

Maximum load:



 Fx [N]:
 550

 Fy [N]:
 350

 Fz↑ [N]:
 5700

 Fz↓ [N]:
 7600

 Mx [Nm]:
 75

 My [Nm]:
 70



Mz [Nm]: 35

 $S = \frac{1}{\frac{Fy}{Fy max} + \frac{Fz}{Fz max} + \frac{Mx}{Mx max} + \frac{My}{My max} + \frac{Mz}{Mz max}}$

** z: distance from mounting surface to centre of gravity of load [m]

Accessories:

2-/3-/5-Ph. Motors:

Servo/DC

Hand wheels: 0056

Gear boxes: 2056.05

2056.10

2056.20

Limit switches: included

optional Adjustable limit switches:

Zero-point control: 9100

Encoder XE : incremental

absolute

Control system: 9300



