



## EZ0570 Air Bearing Stage

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Air bearing rotary table with direct drive for high accuracy applications.

Equipped with a direct drive motor and a high accuracy rotary encoder for position controlled applications.

Rotor can be clamped by turning off air.

### Mechanical specifications:

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Length x width x height [mm]:	200 x 200 x 140
Turning range [°]:	360
Carrying capacity axial [N]:	2500
Carrying capacity radial [N]:	2500
Run out error axial [ $\mu\text{m}$ ]:	0.1
Run out error radial [ $\mu\text{m}$ ]:	0.1
Stiffness axial [N/ $\mu\text{m}$ ]:	350
Stiffness radial [N/ $\mu\text{m}$ ]:	125
Resistance against tilt [Nm/ $\mu\text{rad}$ ]:	0.58
Inclination compliance [ $\mu\text{rad}/\text{Nm}$ ]:	1.7
Inclination max. load [Nm]:	70
Inertial moment [kg m <sup>2</sup> ]:	0.019
Weight [kg]:	15.43
Air supply pressure [bar]:	5
Air consumption [Nl/min]:	18
Material (housing):	Aluminum anodized grey
Material (rotor):	Aluminum hard coated black

### Measurement system:

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Numerik Jena RIK4	
Signals per rotation:	9000 / 18000
Signal output:	RS 422 / 1Vpp
Reference signal:	TTL active high

### Motor specifications:

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HIWIN TMR 32

Continuous/peak torque [Nm]:	8 / 22
Continuous /peak current [A eff]:	3 / 8

### Control system:

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Servo motor controllers are available on request.

