

Key Features

- Passive Air-Bearing Rotary Table
- Particularly Low Error Motion
- High Speed Operation Possible
- High Load Capacity and Stiffness
- Various Sizes Available



Passive Rotary Table EZ-RP201

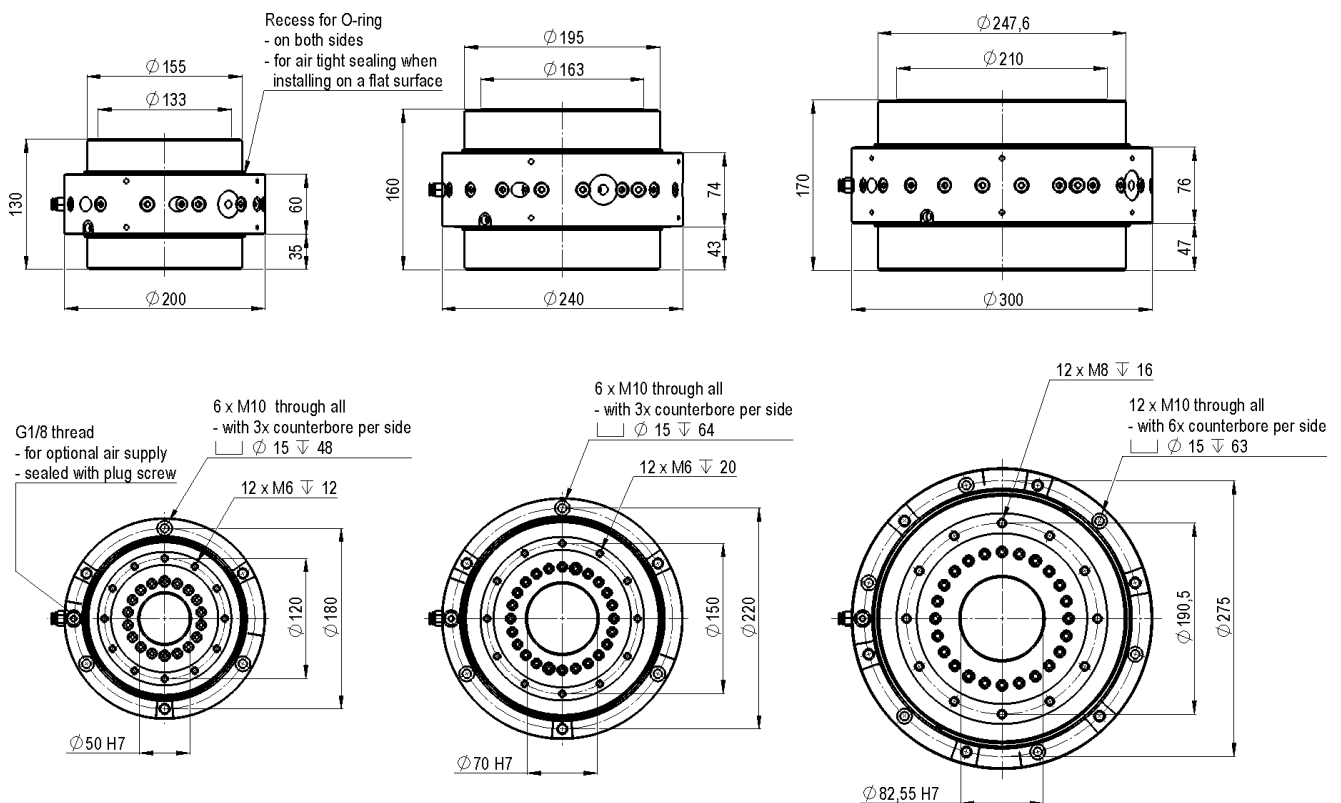
Design and Construction

With an axial error movement of < 30 nm and a radial error movement of < 50 nm, the EZ-RP201 rotary table series meets the highest requirements for concentricity. Due to the special H-design and an optimized bearing layout, a particularly high axial load capacity and stiffness are achieved.

The stainless steel turntables can be driven via an externally flanged motor or via a belt pulley.

Applications

As drive/bearing in the fields of precision turning, polishing, grinding, wafer grinding; for applications with high demands on concentricity.



Type	Unit	EZ-RP201-150	EZ-RP201-200	EZ-RP201-250
Turning Range	°		> 360 (unlimited)	
Error Motion axial (in the center)	µm		< 0.03	
Error Motion radial (at 20 mm height)	µm		< 0.05	
Axial Runout (along radius 85 mm)	µm		< 2	
Max. Speed - preliminary values!	rpm	4,000	2,000	1,200
Mechanical Data				
Unit	Unit	EZ-RP201-150	EZ-RP201-200	EZ-RP201-250
Mounting Position		unrestricted	unrestricted	unrestricted
Diameter x Height	mm	200 x 130	240 x 160	300 x 170
Diameter Rotor	mm	155	195	247,6
Moving Mass (rotor)	kg	9.7	19.4	36.4
Total Mass	kg	21	38	66
Max. Load axial	N	2,900	4,000	7,000
Nominal Load axial push/pull	N	2,300	2,800	5,500
Max. Load radial	N	690	1,200	1,500
Nominal Load radial	N	500	850	1,200
Stiffness axial	N/µm	500	580	1,000
Stiffness radial	N/µm	100	110	150
Resistance Against Tilt	Nm/µrad	0.8	2.8	8
Max. Moment of Tilt	Nm	> 50	> 100	> 200
Inertialmoment	kg*m ²	0.03	0.1	0.25
Interfaces and Environment				
Unit	Unit	EZ-RP201-150	EZ-RP201-200	EZ-RP201-250
Supply Pressure	bar		5	
Air Consumption - preliminary values!	Sl/min	~ 20	~ 25	~ 30
Clean Room Suitability			applicable	

Subject to technical modifications and typographical errors.
Datasheet version 2.0

Two mounting options are possible:

- fastening with M10 cylinder head screws by using the provided M10 threads,
- fastening with M8 cylinder head screws by using the counter sink bores.

