

Air Bearing Capstan Servo (ABCS) Rotary Tables

RT16-ABCS



RT16 Face Plate Geometry Specifications

Description	Accuracy Grades		
	2	4	8
Face Plate Runout at 6.5 in. (165.1 mm) Radius	0.000025 (.00060 mm)	0.000035 (.00090 mm)	0.000050 (.0013 mm)
Base Runout at 8.5 in. (215.9 mm) Radius	0.000050 (.0013 mm)	0.000070 (.0018 mm)	0.000100 (.0025 mm)
Face Plate Dish (Flatness)	0.000030 (.0008 mm)	0.000050 (.0013 mm)	0.000100 (.0025 mm)
Center Pilot Runout	0.000040 (.0013 mm)	0.000060 (.0015 mm)	0.000080 (.0020 mm)

Load Capacity Radial	Load Capacity Thrust	Stiffness Thrust	Operating Air Pressure	RT Weight
170 lbs. (77 kg)	890 lbs. (404 kg)	4-6 lbs/microinch 70-110 kg/micron	80 PSI (5.5 Bar)	340 lbs. (153 kg)

RT16 Servo Drive Options

Description	Drive Options			
	403	530	660	840
Drive Motor	PMI U9M4T	PMI U9M4T	PMI U9M4T	PMI U9M4T
Tachometer	Yes	Yes	Yes	Yes
Ratio	403:1	530:1	660:1	840:1
Maximum RPM	7.4	5.6	4.5	3.5

Performance Grade (Reflected Load Inertia Ratio)							
Drive Ratio	0.5	0.75	1	1.25	1.5	1.75	2
	Inertia Capacity (lb-ft ²)						
403	9	66	122	179	235	291	348
530	29	126	224	322	419	517	614
660	60	212	363	514	666	817	969
840	117	363	608	853	1098	1344	1589
	Inertia Capacity (kg-m ²)						
403	0.4	2.8	5.1	7.5	9.9	12.3	14.7
530	1.2	5.3	9.4	13.6	17.7	21.8	25.9
660	2.5	8.9	15.3	21.7	28.1	34.4	40.8
840	4.9	15.3	25.6	35.9	46.3	56.6	67.0