

Ball Bearing Capstan Servo (BBCS) Rotary Tables

RT16 BBCS



RT16 Face Plate Geometry Specifications

Description	Accuracy Grades		
	15	30	60
Face Plate Runout at 6.5 in. (165.1 mm) Radius	0.000020 (.0005 mm)	0.000040 (.00101 mm)	0.000080 (.0020 mm)
Base Runout at 8.5 in. (215.9 mm) Radius	0.000040 (.00101 mm)	0.000080 (.0020 mm)	0.000160 (.0041 mm)
Face Plate Dish (Flatness)	0.000040 (.00101 mm)	0.000080 (.0020 mm)	0.000160 (.0041 mm)
Center Pilot Runout	0.000050 (.00127 mm)	0.000100 (.0025 mm)	0.000200 (.0051 mm)

Load Capacity Radial	Load Capacity Thrust	Stiffness Thrust	Operating Air Pressure	RT Weight
400 lbs. (182 kg)	1600 lbs. (727 kg)	4.5-9.0 lbs/microinch 80-160 kg/micron	80 PSI (5.5 Bar)	225 lbs. (102 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
Drive 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	14	71	127	183	240	296	353
530	36	134	231	329	426	524	622
660	68	219	370	522	673	825	976
840	125	370	615	860	1106	1351	1596
	Inertia Capacity (kg-m ²)						
403	0.6	3.0	5.4	7.7	10.1	12.5	14.9
530	1.5	5.6	9.7	13.9	18.0	22.1	26.2
660	2.8	9.2	15.6	22.0	28.4	34.7	41.1
840	5.3	15.6	25.9	36.3	46.6	56.9	67.3