

Air Bearing Capstan Servo (ABCS) Rotary Tables

RT40-ABCS



RT40 Face Plate Geometry Specifications

Description	Accuracy Grades		
	2	4	8
Face Plate Runout at 18.5 in. (469.9 mm) Radius	0.000070 (.0018 mm)	0.000100 (.0025 mm)	0.000140 (.0036 mm)
Base Runout at 20.5 in. (520.7 mm) Radius	0.000120 (.0030 mm)	0.000170 (.0043 mm)	0.000240 (.0061 mm)
Face Plate Dish (Flatness)	0.000075 (.0019 mm)	0.000125 (.0032 mm)	0.000250 (.0064 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
720 lbs. (326 kg)	6,855 lbs. (3,109 kg)	17-39 lbs/microinch 310-710 kg/micron	80 PSI (5.5 Bar)	2510 lbs. (1137 kg)

RT40 Servo Drive Options

Description	Drive Options			
	585	780	1092	1482
Drive Motor	PMI U16M4T	PMI U16M4T	PMI U16M4T	PMI U16M4T
Tachometer	Yes	Yes	Yes	Yes
Ratio	585:1	780:1	1092:1	1482:1
Maximum RPM	5.1	3.8	2.7	2.0

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)						
585	632	2,238	3,843	5,448	7,054	8,659	10,264
780	2,440	5,293	8,147	11,000	13,854	16,707	19,560
1092	7,000	12,592	18,185	23,777	29,370	34,963	40,555
1482	15,380	25,680	35,981	46,282	56,583	66,883	77,184
	Inertia Capacity (kg-m ²)						
585	27	94	162	230	297	365	433
780	103	223	343	464	584	704	824
1092	295	531	766	1,002	1,238	1,473	1,709
1482	648	1,082	1,516	1,950	2,384	2,818	3,253