

# Air Bearing Capstan Servo (ABCS) Rotary Tables

## RT20-ABCS



RT20 Face Plate Geometry Specifications

Description	Accuracy Grades		
	2	4	8
<b>Face Plate Runout</b> at 8.50 in. (215.9 mm) Radius	0.000035 (.00090 mm)	0.000045 (.0011 mm)	0.000065 (.0016 mm)
<b>Base Runout</b> at 11.0 in. (279.4 mm) Radius	0.000065 (.0016 mm)	0.000090 (.0023 mm)	0.000130 (.0033 mm)
<b>Face Plate Dish</b> (Flatness)	0.000040 (.0010 mm)	0.000065 (.0017 mm)	0.000125 (.0032 mm)
<b>Center Pilot Runout</b>	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
260 lbs. (118 kg)	1,595 lbs. (723 kg)	6-12 lbs/microinch 110-220 kg/micron	80 PSI (5.5 Bar)	470lbs. (213 kg)

## RT20 Servo Drive Options

Description	Drive Options		
	671	836	1064
Drive Motor	PMI U9M4T	PMI U9M4T	PMI U9M4T
Tachometer	Yes	Yes	Yes
Ratio	671:1	836:1	1064:1
Maximum RPM	4.5	3.6	2.8

Performance Grade (Reflected Load Inertia Ratio)						
Drive Ratio	0.75	1	1.25	1.5	1.75	2
		Inertia Capacity (lb-ft <sup>2</sup> )				
671	5	161	318	475	631	788
836	56	299	541	784	1027	1270
1064	147	541	934	1328	1721	2114
	Inertia Capacity (kg-m <sup>2</sup> )					
671	0.2	6.8	13.4	20.0	26.6	33.2
836	2.3	12.6	22.8	33.1	43.3	53.5
1064	6.2	22.8	39.4	55.9	72.5	89.1