

# Air Bearing Capstan Servo (ABCS) Rotary Tables

## RT32-ABCS



RT32 Face Plate Geometry Specifications

Description	Accuracy Grades		
	2	4	8
<b>Face Plate Runout</b> at 14.5 in. (368.3 mm) Radius	0.000055 (.0014 mm)	0.000080 (.0020 mm)	0.000110 (.0028 mm)
<b>Base Runout</b> at 16.5 in. (419.1 mm) Radius	0.000095 (.0024 mm)	0.000135 (.0034 mm)	0.000195 (.0050 mm)
<b>Face Plate Dish</b> (Flatness)	0.000060 (.0015 mm)	0.000100 (.0025 mm)	0.000200 (.0051 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
500 lbs. (227 kg)	4,070 lbs. (1,846 kg)	11-25 lbs/microinch 200-460 kg/micron	80 PSI (5.5 Bar)	1300lbs. (589kg)

## RT32 Servo Drive Options

Description	Drive Options	
	465	620
Drive Motor	PMI #U16M4T	PMI #U16M4T
Tachometer	Yes	Yes
Drive Ratio	465:1	620:1
Maximum RPM	6.4	4.8

Performance Grade (Reflected Load Inertia Ratio)							
Drive Ratio	0.5	0.75	1	1.25	1.5	1.75	2
	Inertia Capacity (lb-ft <sup>2</sup> )						
465	984	1,999	3,013	4,027	5,041	6,056	7,070
620	2,303	4,106	5,909	7,712	9,515	11,317	13,120
	Inertia Capacity (kg-m <sup>2</sup> )						
465	41	84	127	170	212	255	298
620	97	173	249	325	401	477	553