

# Ball Bearing Capstan Servo (BBCS) Rotary Tables

## RT48-BBCS



RT48 Face Plate Geometry Specifications

Description	Accuracy Grades		
	15	30	60
<b>Face Plate Runout</b> at 22.5 in. (571.5 mm) Radius	0.000140 (.0036 mm)	0.000280 (.0070 mm)	0.000560 (.0142 mm)
<b>Base Runout</b> at 23.5 in. (596.9 mm) Radius	0.000280 (.0070 mm)	0.000560 (.0142 mm)	0.001120 (.0284 mm)
<b>Face Plate Dish</b> (Flatness)	0.000280 (.0070 mm)	0.000560 (.0122 mm)	0.001120 (.0284 mm)
<b>Center Pilot Runout</b>	0.000100 (.0025 mm)	0.000200 (.0051 mm)	0.000400 (.0102 mm)

Load Capacity Radial	Load Capacity Thrust	Stiffness Thrust	Operating Air Pressure	RT Weight
2,850 lbs. (1,295 kg)	6,775 lbs. (3,080 kg)	19-43 lbs/microinch 345-780 kg/micron	80 PSI (5.5 Bar)	3,180 lbs. (1,442 kg)

## RT48 Servo Drive Options

Description	Drive Options		
	675	855	1080
Drive Motor	Mavilor #MO-1000	Mavilor #MO-1000	Mavilor #MO-1000
Tachometer	Yes	Yes	Yes
Drive Ratio	675:1	855:1	1080:1
Maximum RPM	4.44	3.51	2.78

Performance Grade (Reflected Load Inertia Ratio)								
Drive Ratio	0.25	0.5	0.75	1	1.25	1.5	1.75	2
		Inertia Capacity (lb-ft <sup>2</sup> )						
<b>675</b>	1,195	7,788	14,382	20,976	27,570	34,164	40,757	47,351
<b>855</b>	3,659	14,238	24,817	35,397	45,976	56,556	67,135	77,714
<b>1080</b>	8,003	24,883	41,763	58,643	75,523	92,403	109,283	126,164
	Inertia Capacity (kg-m <sup>2</sup> )							
<b>675</b>	50	328	606	884	1,162	1,440	1,718	1,995
<b>855</b>	154	600	1,046	1,492	1,937	2,383	2,829	3,275
<b>1080</b>	337	1,049	1,760	2,471	3,183	3,894	4,605	5,317