

Air Bearing Capstan Servo (ABCS) Rotary Tables

RT48-ABCS



RT48 Face Plate Geometry Specifications

Description	Accuracy Grades		
	2	4	8
Face Plate Runout at 22.5 in. (571.5 mm) Radius	0.000085 (.0022 mm)	0.000120 (.0030 mm)	0.000175 (.0044 mm)
Base Runout at 23.5 in. (596.9 mm) Radius	0.000140 (.0036 mm)	0.000195 (.0050 mm)	0.000275 (.0070 mm)
Face Plate Dish (Flatness)	0.000090 (.0023 mm)	0.000150 (.0038 mm)	0.000250 (.0076 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
870 lbs. (394 kg)	8,805 lbs. (3,994 kg)	19-43 lbs/microinch 345-780 kg/micron	80 PSI (5.5 Bar)	3985 lbs. (1810 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 ²)						
675	42	6,635	13,229	19,823	26,417	33,011	39,604	46,198
855	2,506	13,085	23,664	34,244	44,823	55,402	65,982	76,561
1080	6,850	23,730	40,610	57,490	74,370	91,250	108,130	125,011
	Inertia Capacity (kg-m ²)							
675	2	280	557	835	1,113	1,391	1,669	1,947
855	106	551	997	1,443	1,889	2,335	2,780	3,226
1080	289	1,000	1,711	2,423	3,134	3,845	4,557	5,268