

Air Float Capstan Servo (AFCS) Rotary Tables

RT48-AFCS



RT48 Face Plate Geometry Specifications

Description	Accuracy Grades		
	30	50	100
Face Plate Runout at 22.5 in. (571.5 mm) Radius	0.000150 (.0038 mm)	0.000250 (.0064 mm)	0.000500 (.0127 mm)
Base Runout at 23.5 in. (596.9 mm) Radius	0.000150 (.0038 mm)	0.000250 (.0064 mm)	0.000500 (.0127 mm)
Face Plate Dish (Flatness)	0.000150 (.0038 mm)	0.000250 (.0064 mm)	0.000500 (.0127 mm)
Center Pilot Runout	0.000050 (.00127 mm)	0.000100 (.0025 mm)	0.000200 (.0051 mm)

Note- Geometry Specifications apply when the Air Float Rotary Table is locked. (Air Float off)

Load Capacity Radial	Load Capacity Thrust	Operating Air Pressure	Air Flow	RT Weight
800 lbs. (364 kg)	26,740 lbs. (12,155 kg)	80 PSI (5.5 Bar)	1.5 CFM (2.55 m ³ /h)	3,170 lbs. (1,438 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	1,095	7,689	14,283	20,877	27,470	34,064	40,658	47,252
855	3,559	14,138	24,718	35,297	45,877	56,456	67,035	77,615
1080	7,903	24,783	41,663	58,544	75,424	92,304	109,184	126,064
	Inertia Capacity (kg-m ²)							
675	46	324	602	880	1,158	1,435	1,713	1,991
855	150	596	1,042	1,487	1,933	2,379	2,825	3,271
1080	333	1,044	1,756	2,467	3,178	3,890	4,601	5,312