

Air Float Capstan Servo (AFCS) Rotary Tables

RT20-AFCS



RT20 Face Plate Geometry Specifications

Description	Accuracy Grades		
	30	50	100
Face Plate Runout at 8.5 in. (215.9 mm) Radius	0.000060 (.00152 mm)	0.000100 (.00254 mm)	0.000200 (.0051 mm)
Base Runout at 11.0 in. (279.4 mm) Radius	0.000060 (.00152 mm)	0.000100 (.00254 mm)	0.000200 (.0051 mm)
Face Plate Dish (Flatness)	0.000060 (.00152 mm)	0.000100 (.00254 mm)	0.000200 (.0051 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)	4,675 lbs. (2,125 kg)	80 PSI (5.5 Bar)	15 CFH (0.43 m ³ /h)	410 lbs. (186 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 ²)					
671	32	189	346	502	659	816
836	83	326	569	812	1055	1298
1064	175	568	962	1355	1748	2142
	Inertia Capacity (kg-m ²)					
671	1.4	8.0	14.6	21.2	27.8	34.4
836	3.5	13.7	24.0	34.2	44.4	54.7
1064	7.4	23.9	40.5	57.1	73.7	90.3