

Air Float Capstan Servo (AFCS) Rotary Tables

RT16-AFCS



RT16 Face Plate Geometry Specifications

Description	Accuracy Grades		
	30	50	100
Face Plate Runout at 6.5 in. (165.1 mm) Radius	0.000050 (.00127 mm)	0.000075 (.00191 mm)	0.000150 (.00381 mm)
Base Runout at 8.5 in. (215.9 mm) Radius	0.000050 (.00127 mm)	0.000075 (.00191 mm)	0.000150 (.00381 mm)
Face Plate Dish (Flatness)	0.000050 (.00127 mm)	0.000075 (.00191 mm)	0.000150 (.00381 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)	2,835 lbs. (1,289 kg)	80 PSI (5.5 Bar)	10 CFH (0.28 m ³ /h)	245 lbs. (111 kg)

RT16 Servo Drive Options

Description	Drive Options			
	403	530	660	840
Drive Motor	PMI #U9M4T	PMI #U9M4T	PMI #U9M4T	PMI #U9M4T
Tachometer	Yes	Yes	Yes	Yes
Drive Ratio	403:1	530:1	660:1	840:1
Maximum RPM	7.4	5.6	4.5	3.5

Performance Grade (Reflected Load Inertia Ratio)							
Drive Ratio	0.5	0.75	1	1.25	1.5	1.75	2
		Inertia Capacity (lb-ft ²)					
403	15	71	128	184	240	297	353
530	37	135	232	330	427	525	623
660	69	220	371	523	674	826	977
840	126	371	616	861	1107	1352	1597
	Inertia Capacity (kg-m ²)						
403	0.6	3.0	5.4	7.8	10.1	12.5	14.9
530	1.6	5.7	9.8	13.9	18.0	22.1	26.2
660	2.9	9.3	15.7	22.0	28.4	34.8	41.2
840	5.3	15.6	26.0	36.3	46.6	57.0	67.3