

# Air Bearing Rotary Tables



## Features & Benefits

- Provide an ultra-precision rotary reference axis for gaging, manufacturing and test applications.
  - Friction free, ultra smooth rotary motion with absolute repeatability.
  - Hardened stainless steel air bearing design ensures long lasting microinch or sub-micron accuracy.
  - Available with worktable diameters from 4" (100mm) to 15" (380mm) with radial and axial accuracies from 0.000,001" (0.025µm) to 0.000,010" (0.25µm).
  - Several models have load carrying capacities up to 1,000lbs (453Kg).
- Larger heavy duty air bearing rotary tables are available with air float centering assist or air/ball bearings offering load capacities up to 5,000lbs (2265Kg) and diameters to 60" (1524mm).
  - Modular design allows the rotary tables to be utilized in a wide variety of measurement and motion applications.
  - Can be used with PRECITECH's full line of line of options and accessories as well as standard/custom designed measurement systems.

## Rotary Table Specifications

Series	Worktable Diameter		Available Accuracies	Axial Load Capacity		Axial Stiffness	Air Consumption
	mm	(in)		kg	(lbs)		
RT100	100	(4)	A1, A2, A5	57	(125)	10.9 (0.6)	28 (1.0)
RT150	150	(6)	A1, A2, A5	113	(250)	27.2 (1.5)	34 (1.2)
	200	(8)					
RT200	200	(8)	A1, A2, A5	226	(500)	36.2 (2.0)	34 (1.2)
	270	(10.6)					
	380	(15)					
RT270	270	(10.6)	A2, A5, A10	453	(1000)	81.5 (4.5)	28 (1.0)
	380	(15)					

Working Pressure Range: 30–70PSIG (2–5kgf/cm<sup>2</sup>)  
Specifications @ 60PSIG (4kgf/cm<sup>2</sup>)

Dimensions	D1		D2		D3		Height		Weight	
	mm	(in)	mm	(in)	mm	(in)	mm	(in)	kg	(lbs)
RT100	100	(4)	146	(5.75)	19	(.75)	66	(2.62)	4.5	(10)
RT150	150	(6)	196	(7.75)	25	(1.0)	73	(2.87)	9.0	(20)
RT200	200	(8)	248	(9.75)	38	(1.5)	118	(4.65)	29.0	(65)
RT270	270	(10.63)	270	(10.63)	38	(1.5)	130	(5.11)	43.0	(95)

AX	Ax Accuracies	
	radial/axial	angular(coning)
1	1.0µ" (0.025µm)	0.5µ"/inch (0.012µm/25mm)
2	2.0µ" (0.05µm)	1.0µ"/inch (0.025µm/25mm)
5	5.0µ" (0.125µm)	1.0µ"/inch (0.025µm/25mm)
10	10.0µ" (0.25µm)	1.0µ"/inch (0.025µm/25mm)

