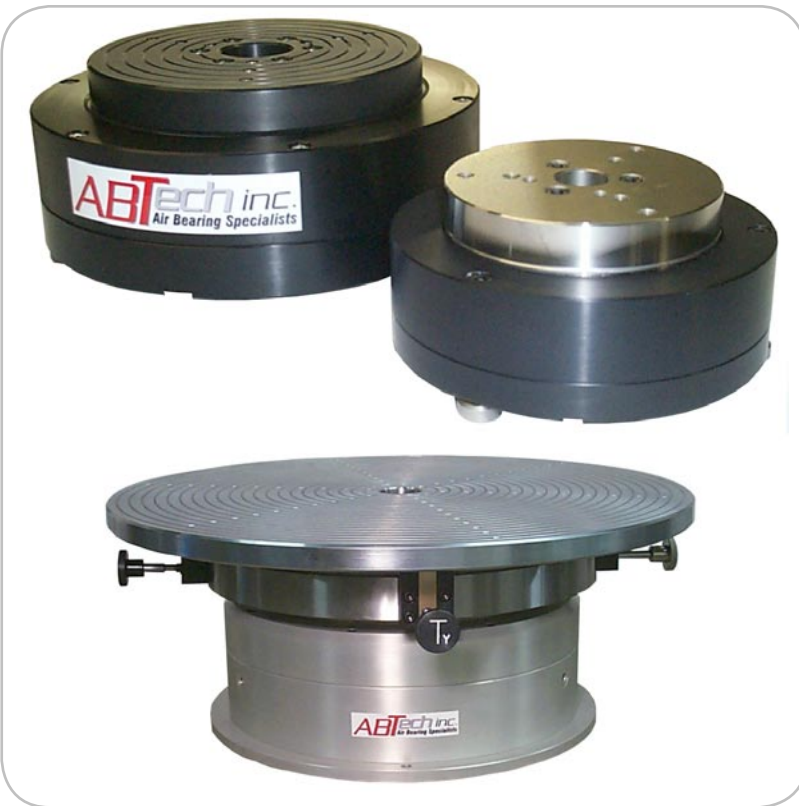


AT - Series, Air Bearing Spin Tables

Ultra-Precision Rotary Motion



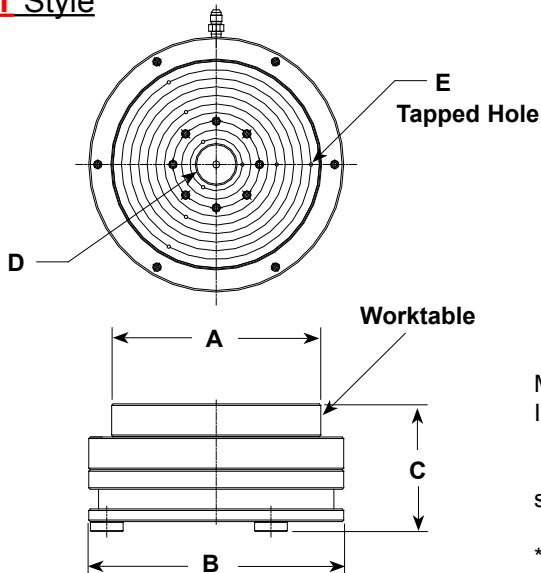
ABTech, Inc. offers a full line of Ultra-Precision Air Bearing Rotary Tables for applications requiring an Ultra-Precision reference axis, such as, out-of-roundness, squareness, concentricity, and parallelism measurements. Ideal for precision rotary grinding, optical lens alignment staging and turbine engine component assembly. ABTech's modular design and full engineering services can respond quickly to provide a solution to your O.E.M. requirements for Ultra-Precision rotary motion.

Features

- Five standard sizes from 100mm(4") to 400mm(15.75")
- Four accuracy grades available for cost effective design
- Ultra-smooth motion with absolute repeatability
- High load capacity and stiffness
- Low air consumption
- Modular design - custom systems can be provided for O.E.M.
- Worktables available to 600mm(23.62")
- Motor drives and tilt/center worktables available
- Custom tooling and fixturing design and manufacturing

Specifications

AT Style



Ordering Information

AT	-	200	-	300	-	A1
Air Bearing Style		Bearing Series		Optional Worktable Sizes Available		Accuracy
AT - Table Assembly		100 150 200 300 400		(See Table Below)		A1 A2 A5 A10 (See Table Below)
AS - Air Bearing Spindle Only **						

Motor Drives and Tilt/Center Worktables are available. Consult ABTech, Inc. for more Information or see the applicable product data sheet.

* Special worktable sizes or bolt circle patterns can be provided. ABTech, Inc. can supply fixturing or special work holding tooling. Contact ABTech, Inc. for a quotation.

** Consult ABTech, Inc. Applications Engineering for details and mounting information.

Series

	100	150	200	300	400
A	100mm(4 in.)	150mm(6 in.)	200mm(8 in.)	300mm(11.81 in.)	400mm(15.75 in.)
B	140mm(5.50 in.)	203mm(8 in.)	248mm(9.75 in.)	381mm(15.00 in.)	476mm(18.75 in.)
C	68.3mm(2.69 in.)	88.9mm(3.50 in.)	124mm(4.88 in.)	149mm(5.88 in.)	158.8mm(6.25 in.)
D	19mm(.75 in.)	31.75mm(1.25 in.)	38.3mm(1.51 in.)	44.5mm(1.75 in.)	50.8mm(2.00 in.)
E	M5 x .8 **	M5 x .8 **	M5 x .8 **	1/4-28UNF **	1/4-28UNF **
Axial Load Cap.	57kg.(125lbs)	113kg.(250lbs)	226kg.(500lbs)	454kg.(1000lbs)	907kg.(2000lbs)
Axial Stiffness	10.8kgf/μm(0.6lbs/μ")	27.2kgf/μm(1.5lbs/μ")	36.2kgf/μm(2.0lbs/μ")	81.5kgf/μm(4.5lbs/μ")	150kgf/μm(8.4lbs/μ")
Air Usage	1.7m3/h(1.0scfm)	2.6m3/h(1.5scfm)	2.6m3/h(1.5scfm)	2.6m3/h(1.5scfm)	3.4m3/h(2.0scfm)
Weight	4.5kg(10lbs)	9.0kg(20lbs)	29kg(65lbs)	86.2kg(190lbs)	136kg(300lbs)
Optional Worktable Sizes	150mm(5.91 in.)	200mm(8 in.)	300mm(11.81 in.) 400mm(15.75 in.)	400mm(15.75 in.) 500mm(19.68 in.)	500mm(19.68 in.) 600mm(23.62 in.)

Accuracies

	Radial/Axial	Angular (coning)
A1	0.025μm(1.0μ")	0.012μm/25mm(0.5μ"/in.)
A2	0.05μm(2.0μ")	0.025μm/25mm(1.0μ"/in.)
A5	0.125μm(5.0μ")	0.025μm/25mm(1.0μ"/in.)
A10	0.25μm(10.0μ")	0.025μm/25mm(1.0μ"/in.)

Specifications are at 4kgf/cm2 (60psi)
Specifications are subject to change without notification

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