

# *Air bearing roller assembly*

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**ABTech, Inc.** developed this motorized air bearing roller assembly for thin film processing applications. The outside diameter of the rotating drum is ground while supported by its own air bearing assembly which produces extremely low TIR. The drum is powered by a brushless dc motor drive and high accuracy rotary encoder for precise velocity control.

## **Features and highlights**

- Load capacity: 250 lbs
- Speed range: 0 to 30 rpm
- Brushless dc motor
- High accuracy rotary encoder; 0.5 arcsec resolution
- Velocity control to better than +/- 1%
- Air bearing stiffness > 1,000,000 lbs/in
- Outer drum TIR < 1 $\mu$ m
- Drum is 440 CSS and hardened to 60 Rc
- All other components are plated for corrosion resistance
- Air supply pressure: 60 psig
- Electrical requirements: 110 VAC, 15 amp
- Made in USA



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