



**Air Bearings Limited**  
**Via Mechanics Group**

**DS060E**

**DICING** Air Bearing Spindle



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*Your best partner for the next generation of machine tools*



**[www.airbearings.co.uk](http://www.airbearings.co.uk)**

Air Bearings Limited

1 Witney Road, Nuffield Industrial Estate, Poole, Dorset. BH17 0GH

Tel: +44 (0) 1202 680 805 Fax: +44 (0) 1202 680 809

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## Via Mechanics Group

### DS060E

## DICING Air Bearing Spindle

### DS060E

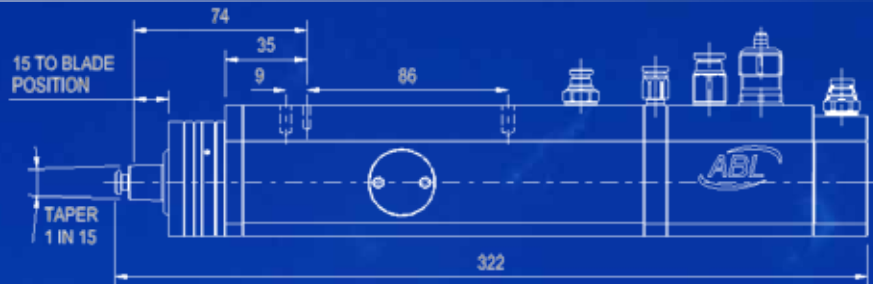
- 60k rpm max rotational speed
- Brushless DC motor
- Compact Design
- Compatible with various popular blade holding systems suitable for:
  - 2 inch Hubbed blades
  - 2 inch Hubless blades
  - 3 inch Hubless blades
- Reliable and Superior Quality
- Shaft lock system to aid blade change
- Excellent dynamic performance

Specifications	DS060E
Maximum Speed	60,000 RPM
Motor Power	1.8 kW
Radial Load Capacity	140 N
Radial Stiffness	10 N/ $\mu$ m
Axial Load Capacity	150 N
Axial Stiffness	9 N/ $\mu$ m
Dynamic Runout	<1 $\mu$ m
Air Supply Pressure	5.5 - 6.0 kgf/cm <sup>2</sup>
Air Consumption	60 - 70 l/min
Coolant Flow	>2 l/min
Coolant Inlet Temp	15 - 19 °C
Coolant	Water
Spindle Mass	5.5 kg
Blade Size	2 inch Hubbed & Hubless, 3 inch Hubless

For guidance only. ABL reserves the right to change specifications without notice

### APPLICATIONS

- Dicing of various materials including:
  - Silicon Wafers
  - Ceramics
  - Opto-electrical Components
  - LED's



ABL's range of dicing spindles has been developed using the experience gained from over 23 years of supplying quality air bearing systems. Specialised motor designs allow our spindles to achieve excellent motor performance and low vibration while maintaining high stiffness and load capacity in a very compact design. A range of body mounting options are available that may be customised to meet individual requirements to suit both new or existing equipment.

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