



Air Bearings Limited  
Via Mechanics Group

MM080C

**MICRO-MACHINING** Air Bearing Vector Drive 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

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## Via Mechanics Group

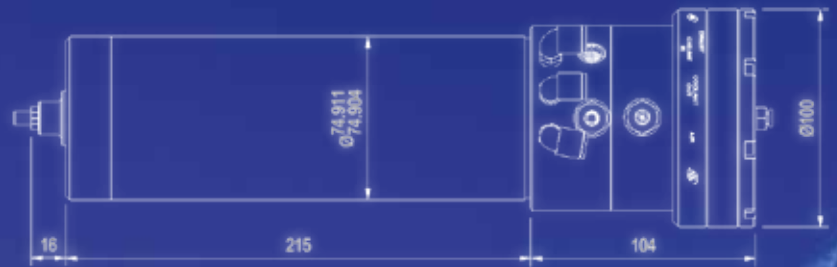
# MM080C

## MICRO-MACHINING Air Bearing Vector Drive Spindle

### MM080C

- Asynchronous 2 pole motor
- Reliable & Superior Quality
- More Capable
- Higher Efficiency due to use of Vector Control **GUBOA** Sensor/Encoder
- Automatic Tool Change (pneumatic actuation)
- Engraving/Drilling/Tapping/ Die Mold Finishing/Polishing
- Precision Glass Grinding
- Ceramics & PZT Materials

Spindle Model	MM080C
Speed Range	0-80,000 RPM
Motor Power	1.6kW Peak 1.0kW Continuous
Motor Type	3 Phase 2 Pole Asynchronous Induction
Air Pressure	5.5 - 6.0 kgf/cm <sup>2</sup>
Air Flow Rate	50 - 55 NI/min
Coolant	Water/Oil
Coolant Flow	1 l/min (Water) 2 l/min (Oil)
Coolant Inlet Temp	15 - 19 °C
Radial Load Capacity	170 N
Axial Load Capacity	300 N
Collet Clamping Torque	>180 Ncm
Run Out (Dynamic)	<5 µm
Vibration	<1.5 mm/s
GUBOA Encoder System	TTL or 1Vpp Analog Output
Mass	6.5 kg
Collet Size (∅)	1/8 inch, 3mm,4mm,6mm,



The MM080C is the perfect combination of a high speed, high precision air bearing spindle with the benefit of having an integrated **GUBOA** encoder system enabling this spindle to be used for a much wider range of applications.

Exclusively designed in partnership with **Chiarey Enterprises**, the MM080C is ideally suited to a true multi-purpose micro-machining centre capable of milling, grinding, drilling and tapping, all with exceptional accuracy and surface finish. The encoder system also enables greater accuracy of speed and positional control and has a reduced power consumption compared to a conventional AC spindle.

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