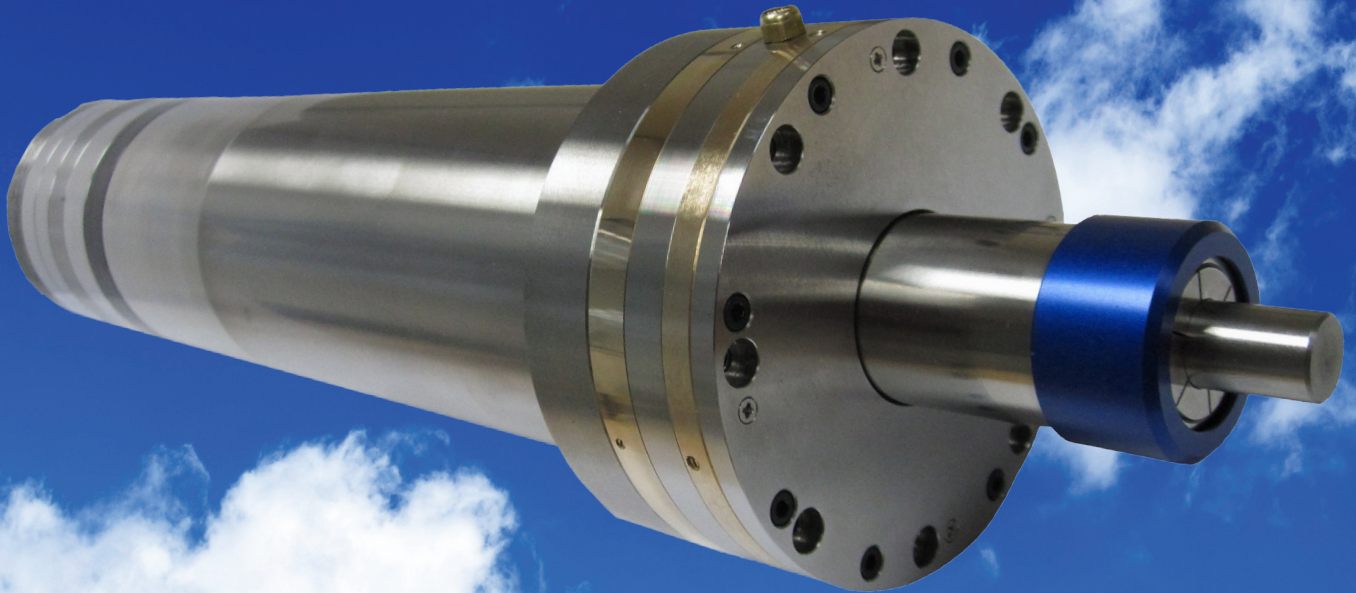




**Air Bearings Limited**  
Via Mechanics Group

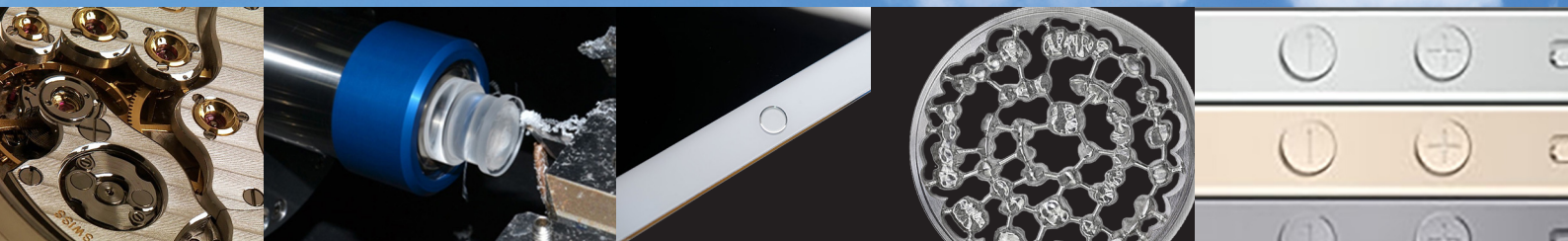
**LGS10A**

**HIGH PRECISION** Air Bearing Spindle



**HIGH PRECISION** Air Bearing Spindle

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



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

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# Air Bearings Limited

## Via Mechanics Group

# LGS10A

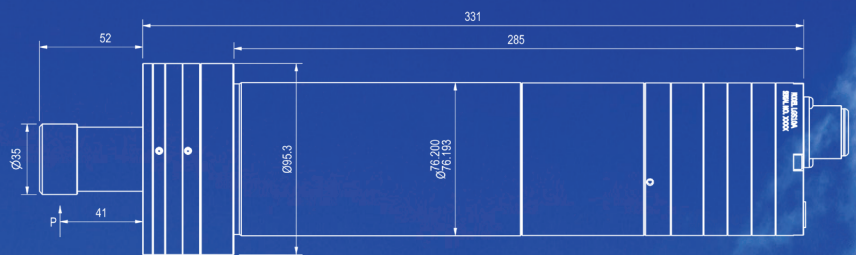
# HIGH PRECISION Air Bearing Spindle

LGS10A	Spindle Model	LGS10A
	Speed Range	0-12,000 (40,000) RPM
	Motor Power	550 W
	Air Pressure	5.5 - 6.5 kgf/cm <sup>2</sup>
	Air Flow Rate	70 - 80 NI/min
	Coolant	Water
	Coolant Flow	0.5 - 1.0 l/min
	Coolant Inlet Temp	15 - 19 °C
	Radial Load Capacity	450 N
	Radial Stiffness	30 N/μm
	Radial & Axial Error Motion	Sync <50 nm Async <50 nm
	Axial Load Capacity	450 N
	Axial Stiffness	40 N/ μm
	Collet Clamping Torque	Adjustable
	Run Out (Dynamic)	<1 μm
	Mass	8.8 kg
	Collet Size (⊙)	3/8", 1/2"

- Asynchronous 4 pole motor
- Rear Mount Service Ports
- Low Axial Thermal Growth
- Adjustable Collet Grip
- Interchangeable Collet
- Automatic Tool Change (pneumatic actuation)

Specifically designed to meet the demands of the optical machining industry, the LGS10A offers exceptional rotational accuracy suited to any high precision machining or finishing operations. The LGS10A, optimised for use at 12,000 rpm without the aid of coolant, has proved to be very popular in precision lathe manufacture of contact and intraocular (IOL) lenses.

The spindle can be liquid cooled to further control thermal growth. The LGS10A provides high stiffness and very low synchronous and asynchronous error motion vital to achieving high precision surface finishes (<50 nanometres).



High load capacity bearings and exceptional tilt stiffness together with a wide variety of collet sizes makes this spindle ideal for micro-machining operations. The LGS10A spindle is capable of operating up to speeds of 40,000 rpm with coolant and suitable drive unit.

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