



Why Westwind is the PCB spindle manufacturer of choice

For 40 years, Westwind has led the world in design and mass production of PCB drilling spindles. 40,000 units of the Westwind 125,000rpm spindle alone have been delivered over the last five years.

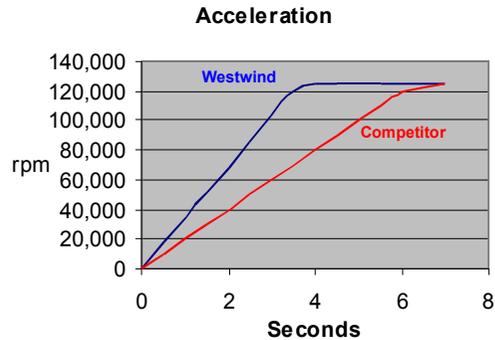
Westwind's full range 20,000 to 125,000rpm spindles feature:

- High power motor
- High axial and radial load
- High radial stiffness
- Low collet runout
- High collet torque
- All parts interchangeable for easy field repair
- Westwind worldwide support

The following pages detail some of the latest performance enhancements that give Westwind's 125,000rpm spindles a competitive edge.

50% Faster Acceleration

0 to 125,000rpm in 4 seconds.
The D1331 has very fast acceleration due to high power output. The motor's peak power of up to 700W means there is no compromise on acceleration.



Superior Cooling System Design

Good heat transfer is essential for maintaining top performance from a spindle. The cooling system on the 125,000rpm spindle is designed with the coolant spiralling round the spindle in direct contact with the stainless steel body.

Pistons Live Longer

Collet activation with pistons rather than diaphragms means less wear and avoids replacement costs.

Low Cost of Ownership

All components are totally interchangeable. Since only damaged parts need to be replaced (not complete shaft bearing assemblies!) you get the most cost-effective repair.

Twice the Torque

Collet torque up to 3.4Nm.
High collet torque is necessary for light routing and slot drilling applications, and extends the maintenance period.

Precision Collet

For applications with a particular requirement for very low runout, Westwind can offer the Centrisprag collet – a patented device which grips the collet by using the effect of centrifugal force. This typically gives runout of <math><5\mu\text{m}</math>. A range of removeable collet types is available including dead-stop, positive lock and ruggedised.

Drills the Hole when Others Stall

Most powerful 125,000rpm spindle available.
For efficient large hole drilling, high power at low speed is necessary. Westwind's 125,000rpm spindles can deliver continuous power of almost 500W at low speeds. This, combined with the good momentum from having a large shaft diameter, makes them the ideal tool for large hole drilling, a true full range spindle.

More Stable in the Real World

Industry leading radial load capacity 142N at 125,000rpm.
A high radial load capacity is necessary if the spindle is to be used for light routing or slot drilling, as is typically the case with 125,000rpm spindles. Radial load capacity is higher with a rear thrust than a front thrust bearing design, as the front bearing is closer to the drill tool.

Beware Cheap Imitations!

Westwind has a unique knowledge of the PCB drilling industry and applications gained over 40 years of providing customised spindle designs to meet OEM requirements.

Westwind's roots stretch back to the early days of air bearing commercialisation, and the pioneering engineering work of the time. The company has remained true to this heritage and its research staff are experts in their fields.

Westwind is able to provide the service support you would expect from a global company. Many popular consumable items are available online at its website for immediate dispatch. The network of sales and service agents provide local presence and fast response. As a large company, representatives can be available to customers when and where required at short notice.

All this adds up to proven spindle reliability, optimised designs, and support based on knowledge of the industry.

Westwind Air Bearings is a division of GSI Group.

Industry Standard Spindles from the Industry Leader - Don't trust anything else

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