

GSI

WESTWIND®

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D1733: 250,000 rpm

D1733 Benefits

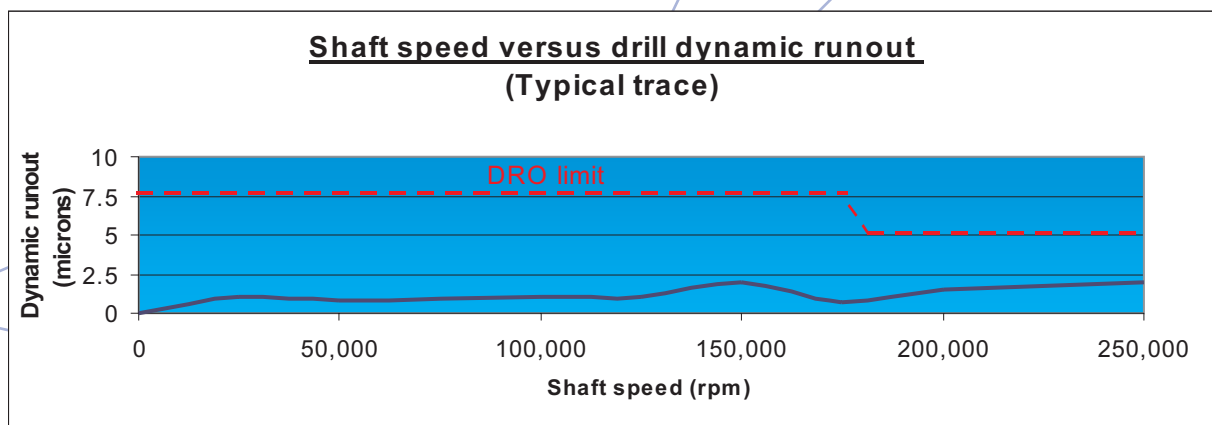
- 1/8" drill shank
- 3x drill life
- Improved collet torque
- Improved motor power

The Westwind D1733 is a dedicated small hole drilling spindle, specifically designed for IC substrate and microvia mechanical drilling.

Speeds of up to 250,000 rpm are necessary to ensure high productivity for microvia hole sizes, therefore the Westwind D1733 is ideal for drilling hole diameters less than 100 microns. The spindle is water-cooled and has a 3-phase AC motor, delivering enough power to drill hole diameters up to 3mm at 30,000 rpm in FR4 (2 high, 1.6mm CCL).

Dynamic runout (DRO) performance is less than 7 μ m over the range, extending the life of small diameter drills. The collet takes an industry standard 0.125" shank diameter drill bit, so special tools are not necessary. The D1733's compact body gives low reciprocating mass, a big advantage in small hole drilling applications, and also allows close spindle pitch on machines with multiple spindles per station.

Specification: D1733 spindle	
Speed range	30,000 - 250,000 rpm
Drill size range	0.075 - 3.17mm Ø
Bearing air supply pressure	5.5-5.8 kg/cm ²
Air consumption (static)	62.5 l/min
Approx weight	2.0 kg
Axial failure load (push)	4.5 Kgf
Body diameter	53.34mm or 61.9mm
Body length	182.80mm
Collet system	Standard 0.125" shank diameter tooling
Dynamic runout	<5µm at 250,000 rpm
Maximum axial acceleration (theoretical)	65g
Maximum heat dissipation to cooling fluid	200w
Radial failure load at collet nose	3.6 Kgf @ 250,000 rpm



About Westwind:

Westwind Air Bearings is a world leader in air bearing spindle systems. In today's PCB drilling industry there are more Westwind spindles in use than any other. Westwind's head office is based in the UK, with additional office & manufacturing facilities in the People's Republic of China, Taiwan and Japan. Furthermore, service and sales support is available worldwide through our extensive network of approved service centres. Westwind is a division of GSI Group.

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