

High speed applications



Grinding



Robot



Milling



High Gain Technology

High Frequency Machine Spindles

High Gain is recognised as a major supplier of high speed spindles to the international machine tool market.

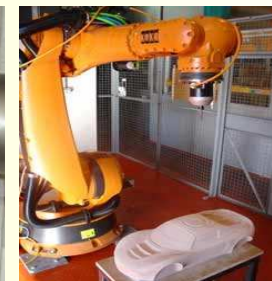
The high frequency spindle lies at the heart of the high speed machine and is the most highly stressed component. To achieve round the clock machining at optimum performance, the spindle system must be made to world quality standards. All spindles are manufactured by Peron Speed from Italy and are built to the most exacting standards.

Spindle systems comprise the electro spindle with hybrid ABEC 9 bearings, asynchronous AC motors, sine wave frequency inverters up to 2500 hz, a spindle chiller system and an air oil lubrication unit where each bearing is supplied with a precise quantity of air oil lubrication.

High Gain supplies main machine spindles for milling, routing and grinding plus attachment plug and go spindles for existing milling machines and machining centres.



Grinding spindle 20000 rpm , 15 kw



24000 rpm robot spindle



12 kw, 24000 rpm plug in spindle

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High Speed Spindle Range

Attachment spindles (plug and go)

0,6 kw	80000 rpm,	max tool diameter 6 mm
1,5 kw	40000 rpm,	max tool diameter 10mm
3 kw	24000 rpm,	max tool diameter 20 mm
12 kw	24000 rpm,	max tool diameter 25 mm



Main machine spindles

1,6 kw	40000 rpm,	hsk 25,	max tool diameter 10 mm
7 kw	30000 rpm,	hsk 40,	max tool diameter 16 mm
15 kw	20000 rpm,	hsk 50,	max tool diameter 20 mm
22 kw	18000 rpm,	hsk 63,	max tool diameter 22 mm

Options: through spindle cooling, vibration sensor temperature control



Chiller system for electro spindle



Air oil lubrication system



Invertex spindle drive



High Gain Technology

Spindle repair and rebuild facility



High Gain Technology offers a spindle rebuild facility for Peron Speed, Gamfior, GMN and other spindle makes.

The spindle for rebuild will be checked and assessed for repair and the customer will be quoted accordingly.

Following repair the spindle will be tested for concentricity, motor performance, vibration and temperature.

After test running the spindle is returned complete with test certificate validating the rebuild.

