



Products supplied



High Speed Spindles



Minimal Coolant Systems



CNC Rotary Tables



Robotic Machining



High Speed Spindle rebuild and repair



High Speed Machine Spindles System Components

In addition to supplying high speed spindles High Gain offers supply, service and technical support for each of the components making up the complete high speed machining system ie, air-oil bearing lubrication, chiller system for spindle cooling, high frequency inverters for spindle speed and torque control.

High Frequency Inverters

Drive range 0,37kw–90 kw



Invertek 3rd Generation Vector Control. Optidrive Plus 3 gv

- UK world class manufacture
- Silent motor running.
- Low temperature motor running.
- 32 khz switching frequency.
- Spindle speeds up to 120000 rpm.
- 2000 hz output frequency.
- Rapid spindle braking at power loss.
- Keypad remote control
- Ultra smooth high frequency wave form
- Encoder TTL feedback for closed loop control



Spindle Cooling Systems from Applied Thermal Control



K series chillers from Applied Thermal / High Gain

UK manufactured.

Cooling capacity up to 6 kw.

Adjustable temperature control.

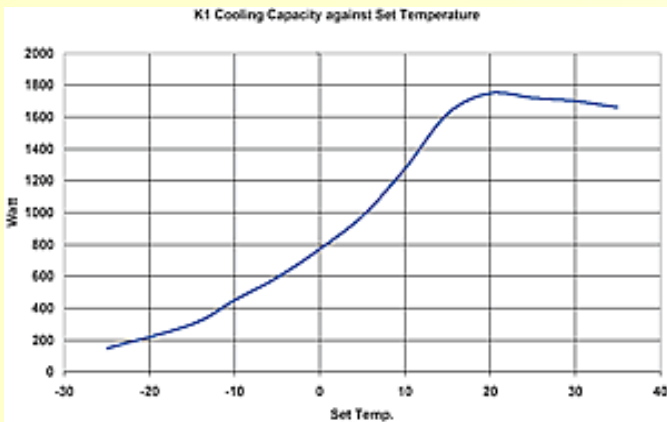
Digital temperature display.

Quiet running.

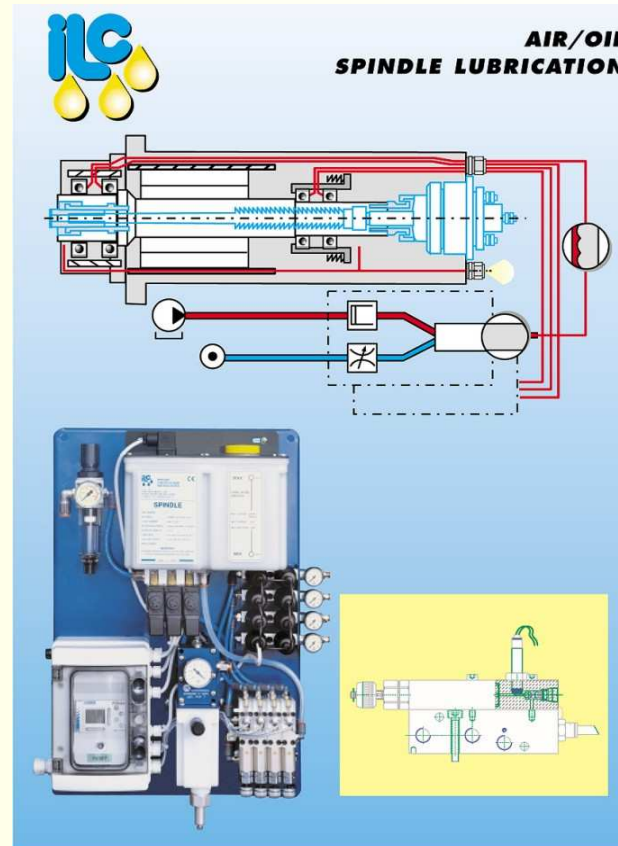
Adjustable pressure.

Compact

Heat transfer cooling medium
Hexid supplied as standard



Air-Oil Spindle Lubrication system



Air-Oil spindle lubrication from ILC / High Gain

Adjustable metering of oil for each bearing point.

Continual monitoring for oil supply to each bearing.

PLC control for both air and oil supply.