

Turbomill Range

Intended Use:

Electro-permanent magnetic chuck for milling applications

Features:

- Electro-permanent failsafe system. Magnets always stay on if power fails
- Powerful equipment, made using the most efficient permanent magnets
- Accurate and sturdy design
- Cost effective, no continuous power supply required
- Full demag system

Turbomill 18

Thanks to its full demagnetization design this chuck is able to reach the lowest possible residual magnetism levels. Typical applications include, surface milling and drilling of medium to large sized plates and medium duty machining operations.

Pole division: 18mm steel, 10mm of epoxy

Minimum workpiece thickness: to reach maximum power: 9mm

Standard Features	Options
85mm thick	Different cable box location
Stoppers on 2 sides	Quick bayonet connector
Cable box on long side	Holes for pole extensions
3m long armoured cable	Through-going holes
4 chuck clamps	Other sizes on request
Input voltage 400 Vac	Other input voltage on request



Turbomill 25B

Produced for heavy milling applications, its robust construction provides this chuck with a long life expectancy. Typical applications include, drilling, contouring and machining.

Pole division: 37mm

Minimum workpiece thickness: to reach maximum power: 12mm

Standard Features	Options
	Different cable box location
Stoppers on 2 sides	Quick bayonet connector
Cable box on long side	Holes for pole extensions
3m long armoured cable	Through-going holes
4 chuck clamps	Other sizes on request
Input voltage 400 Vac	Other input voltage on request



Turbomill 40

Compensated system to reach highest holding performance, suitable for the most arduous machining operations. Typical applications include, five sided milling, drilling, boring of large moulds, ingots, blocks, frames etc.

Pole division: 40mm steel, 16mm of epoxy

Minimum workpiece thickness: to reach maximum power: 20mm

Standard Features	Options
80mm thick	Different cable box location
Stoppers on 2 sides	Quick bayonet connector
Cable box on long side	Holes for pole extensions
3m long armoured cable	Through-going holes
4 chuck clamps	Sliding pole extensions
Input voltage 400 Vac	Other input voltage on request
	Other sizes on request



Turbomill 50-SQ

Square 50mm pole design, compensated system. Suitable for rough and uneven components yet maintains a low field height.

Typical applications include, five sided milling, drilling, boring of large moulds, ingots, blocks, frames etc.

Pole division: 50mm steel, 10mm of epoxy

Minimum workpiece thickness: to reach maximum power: 12mm

Standard Features	Options
50mm thick	Different cable box location
Stoppers on 2 sides	Sliding pole extensions
Cable box on long side	Holes for pole extensions
3m long armoured cable	Through-going holes
4 chuck clamps	Other sizes on request
Input voltage 400 Vac	Other input voltage on request
Quick push-pull connector	



Turbomill Accessories and Optional Items

Sliding Pole Extensions:

Available for both the Turbomill 40 and 50-SQ, sliding poles can adapt themselves to the shape of the workpiece, eliminating clamping stress and raise the workpiece above the clamping surface of the chuck to allow five sided machining in one set up. They allow to equalize an unevenness of up to 5mm. Sliding poles enable the operator to achieve a flat workpiece without having to use cumbersome shimming.

Sliding poles extensions must be combined with 3 fixed pole extensions in order to create the supporting plane of the workpiece.

Setting up and rearranging the pole extensions is easy and quick thanks to positioning pins or integrated screws.

Pole Raiser parallels:

Pole raiser parallels are extremely useful in small production runs. They are an inexpensive means to raise the workpieces to carry out drilling and boring operations without damaging the surface of the magnetic chuck.

For larger batches, dedicated adapter pieces are very effective to raise the workpieces enabling drilling and contour milling operations.

Bayonet and push-pull Connectors:

Our Turbomill chucks can be equipped with a quick-acting connector allowing the chuck to be disconnected from the control unit and to move on or in the machine tool without restriction.

For enhanced safety, the connector can generate an extra interlock contact to make sure it is disconnected before the chuck moves and connected before the control starts to energise.

Air Blowing System:

The chucks clamping surface can be provided with air blowing holes to create an air cushion under large, heavy plates. Thus, when compressed air is applied, such workpieces can be positioned and repositioned with incredible ease.



For more information on this product range please contact us on Tel: 01525 372714 Email: Sakes@LHS.uk.com Website: <http://www.LHS.uk.com>