

MP3 probe systems for CNC machining centres

Robust construction and generous stylus overtravel make the MP3 ideal for larger machines



MP3 PROBE

3D touch trigger probe for workpiece set-up and inspection. Sense directions are $\pm X$, $\pm Y$, +Z.

MP3 PROBE SYSTEMS

Probe systems are made up from modular components. The probe module is shank mounted and is selected as any other tool.

Probe signals are transmitted from a transmission module to an interface unit where the signal is processed, before passing onto the CNC machine control.

Optical transmission systems are easy to retrofit. The battery powered probe transmits signals over a 3 m (9.8 ft) range with 360° output or up to 4 m (13.1 ft) with the alternative wide angle output.

Radio transmission systems are preferred, where it is not possible to have line-of-sight between signal transmission modules. Transmission range is up to 15 m (49 ft). The probe is battery powered.

Inductive transmission systems are powered by the CNC machine and do not require a battery. Precise positioning of the transmission modules makes this system more suitable as original equipment from the machine tool builder.

ACCESSORIES

Shanks

Renishaw provide a range of probe ready shanks.

Styli

The extensive standard Renishaw stylus range satifies most applications. In addition Renishaw provide a custom design and supply service.

Stylus weak link

The weak link stem is designed to break in the event of excessive stylus overtravel, thereby protecting the probe from damage.

Adaptors

When workpiece features are restricted, mounting adaptors allow an LP2 probe (\emptyset 25 mm) to replace the MP3 probe (\emptyset 82 mm).

Extensions

Extensions provide deeper access into workpiece features.

PSU3 power supply

The PSU3 provides +24 V supply for Renishaw interface units when a power supply is not available from the CNC control.

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Parts List - Please quote the Part No. when ordering equipment

A-2053-5358	MP3 probe complete with holding screws and TK1 tool kit.	Radio	H-2000-2027	Data Sheet MP3 probe with radio transmission system.
A-2053-8156	DK3 outer diaphragm replacement kit.	Optical	H-2000-2210	Data Sheet MP3 probe with
A-2053-7531	TK1 probe head tool kit.	-		360° optical transmission.
A-5000-3709	Ceramic stylus 50mm long with Ø6mm ball.	Optical	H-2000-2230	Data Sheet MP3 probe with
M-2085-0068	Stylus weak link kit - safety protection.			wide angle optical transmission.
ASSOCIATED EQUIPMENT INFORMATION		OMM	H-2000-2275	Data Sheet
Catalogue	H-2000-3020 Technical specifications			OMM optical module machine.
Styli guide	H-1000-3200 Styli and accessories.	MI 12	H-2000-2195	Data Sheet MI 12 interface unit
Shanks	H-2000-2011 Data Sheet Taper shanks.			used with OMM.
Mounting	H-2000-2120 Data Sheet	O-M-I	H-2000-2285	Data Sheet
	Adaptors, extensions and holders.			O-M-I optical machine interface.
Inductive	H-2000-2140 Data Sheet	PSU3	H-2000-2200	Data Sheet
	Mk IV inductive transmission.			PSU3 power supply unit.
MI 5	H-2000-2180 Data Sheet MI 5 interface for	Software	H-2000-2289	Data Sheet
	inductive/hard wired transmission.			Probe software for machine tools.

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