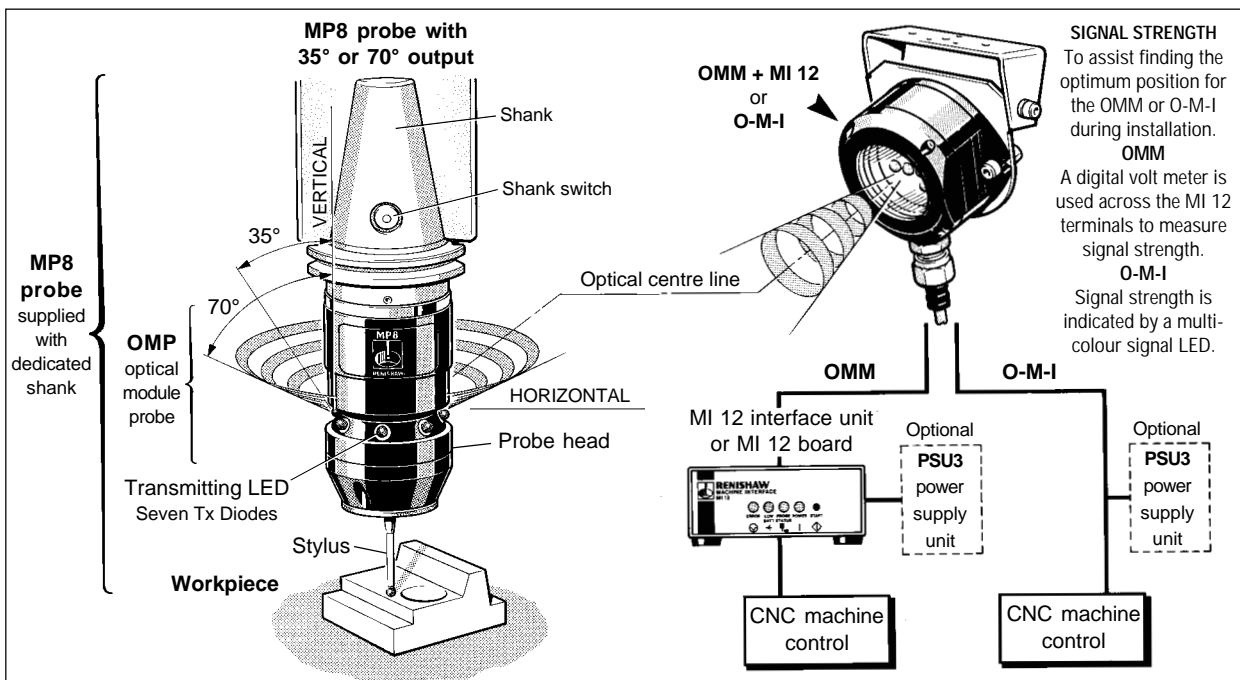
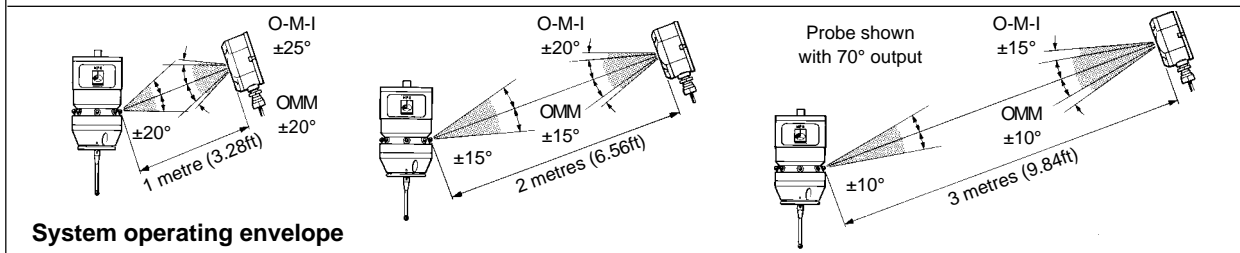


MP8 compact optical probe system

The MP8 shank on/off switch is automatically pressed on, during the time the probe is held in the machine spindle.



MI 12 and O-M-I LED's (Light Emitting Diodes) present system status in a continuously updated form.



MP8 PROBE - includes dedicated shank

The MP8 is a 3D touch trigger inspection probe ($\pm X$, $\pm Y$, $\pm Z$ sense directions), used for workpiece set-up and inspection on CNC machining centres.

Probe optical output

Probes are available with their optical axes at 35° or 70° to the machine spindle centre line.

Probe power

Probe battery power is switched on/off by a pressure switch incorporated in the probe shank. When the probe is placed in the machine spindle it is switched on and when the probe is removed from the spindle, it is switched off. To preserve battery life, the switch must not be depressed during probe storage.

Probe stylus on-centre adjustment.

Translational adjustment enables the centre of the stylus ball to be aligned with the spindle centre line.

Probe stylus spring pressure adjustment.

For extra long styli or overcoming machine vibration.

OMM (optical module machine) + MI 12 interface unit

Signals pass from the CNC control to the OMP via the MI 12 and OMM and return along the same route. The MI 12 converts probe signals into a form compatible with the CNC control. OMM transmission and reception ranges are factory set to 100%. If OMM signals interfere with probes on other machines, then the optical range can be reduced.

O-M-I (optical machine interface)

An alternative to the OMM + MI 12, combining the functions of both OMM and MI 12 in one unit.

Probe, OMM and O-M-I sealing

Sealed to IP68 and designed for reliable operation in the machine tool environment.

PSU3 power supply unit for O-M-I or MI 12

Used when 24V supply is not available from the machine.

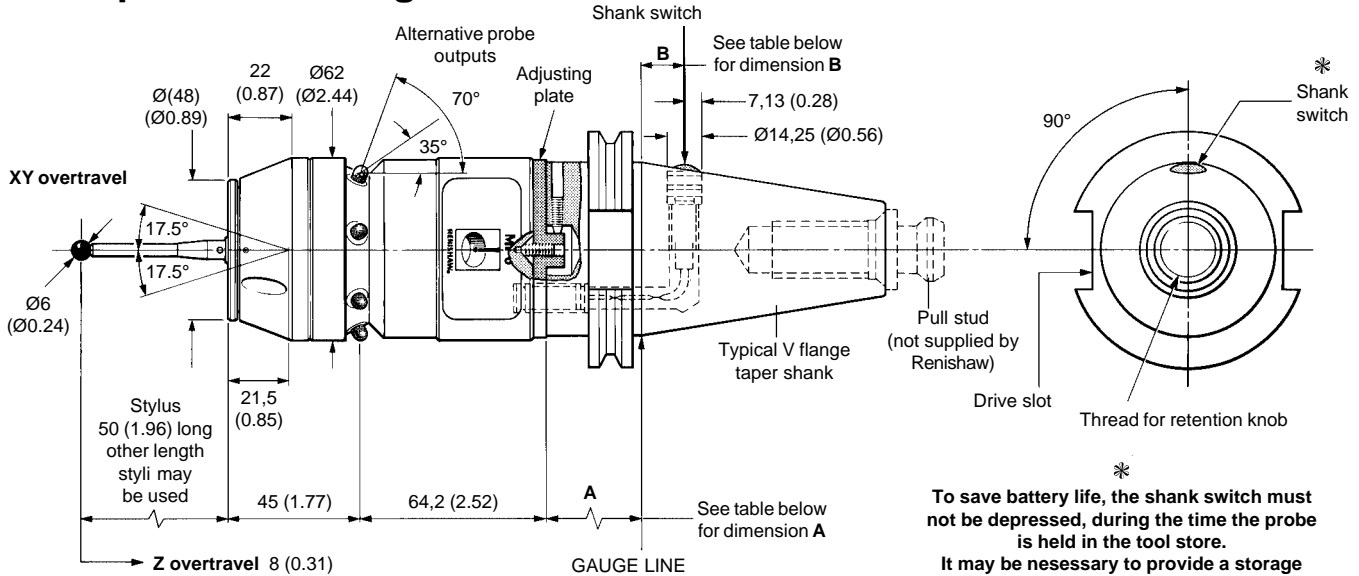
Probing software

Renishaw probing software is available for most types of machine control.

Each system component is fully described on its own separate Data Sheet - see Parts List on back page.

MP8 probe including shank

dimensions mm (inches)



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

Type	Part No.	Description				
		Probe output	Shank specification	Shank ISO taper size	Dimensions mm (inches)	
Each assembly includes probe, shank, battery and tool kit.					A	B
MP8 probe/shank	A-2033-6812	35°	BT	40	35 (1.38)	14 (0.55)
MP8 probe/shank	A-2033-6704	35°	BT	50	50 (1.97)	24 (0.94)
MP8 probe/shank	A-2033-7104	35°	ANSI B5-50-1985 (CAT)	40	35 (1.38)	14 (0.55)
MP8 probe/shank ▲	A-2033-0802	35°	ANSI B5-50-1985 (CAT)	50	65 (2.56)	36,8 (1.45)
MP8 probe/shank ▲	A-2033-6765	35°	DIN 69871	40	50,6 (1.99)	14 (0.55)
MP8 probe/shank ▲	A-2033-6771	35°	DIN 69871	50	50,6 (1.99)	36,8 (1.45)
MP8 probe/shank *	A-2033-7191	35°	ANSI (CAT) MODIFIED	40	35 (1.38)	14 (0.55)
MP8 probe/shank ▲ *	A-2033-0799	35°	ANSI (CAT) MODIFIED	50	65 (2.56)	36,8 (1.45)
MP8 probe/shank	A-2033-6815	70°	BT	40	35 (1.38)	14 (0.55)
MP8 probe/shank	A-2033-7192	70°	BT	50	50 (1.97)	24 (0.94)
MP8 probe/shank	A-2033-0806	70°	ANSI B5-50 1985 (CAT)	40	35 (1.38)	14 (0.55)
MP8 probe/shank	A-2033-0808	70°	ANSI B5-50 1985 (CAT)	50	35 (1.38)	36,8 (1.45)
MP8 probe/shank ▲	A-2033-6773	70°	DIN 69871	40	50,6 (1.99)	14 (0.55)
MP8 probe/shank ▲	A-2033-6778	70°	DIN 69871	50	50,6 (1.99)	36,8 (1.45)
MP8 probe/shank *	A-2033-0803	70°	ANSI (CAT) MODIFIED	40	35 (1.38)	14 (0.55)
MP8 probe/shank *	A-2033-0805	70°	ANSI (CAT) MODIFIED	50	35 (1.38)	36,8 (1.45)
▲ These kits are more commonly used assemblies.						
* These shank specifications are for certain Cincinatti Milacron machines. Generally to ANSI B5-50 1985 (CAT), but with a metric thread for the pull stud.						
Battery	P-BT03-0001	PP3 9V alkaline battery.				
Tool kit	A-2053-7531	TK1 tool kit.				
Diaphragm kit	A-2051-7105	DK1 probe outer diaphragm replacement kit.				
Stylus	A-5000-3709	Ceramic stylus 50mm long with Ø6mm ball.				
Styli - standard M4	—	See Brochure H-2000-3200 Styli for machine tool probes.				
OMM - optical module	—	See Data Sheet H-2000-2275 Optical module machine.				
MI 12 - interface	—	See Data Sheet H-2000-2195 MI 12 interface unit.				
O-M-I - optical interface	—	See Data Sheet H-2000-2285 Optical machine interface (alternative to OMM + MI 12).				
PSU3 - power supply	—	See Data Sheet H-2000-2200 PSU3 power supply unit (optional).				
Software	—	See Data Sheet H-2000-2289 Probe software for machine tools.				

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