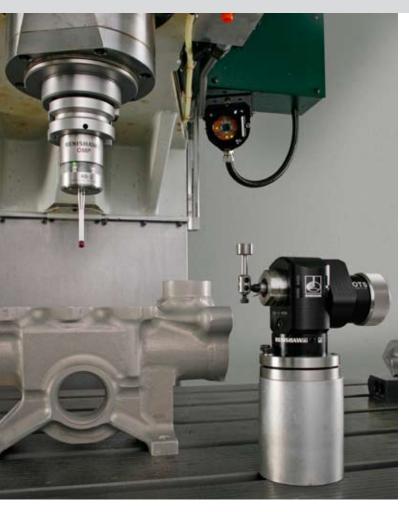


Go cableless!

Unrestricted tool-setting and inspection for machine tools



The twin probe optical system -

improve part quality and reduce set-up times!

The Renishaw twin probe system allows a *spindle probe* and a *tool setting probe* to be installed on a machine with a *single optical interface*.

The new **OMI-2T** optical interface enables two probes to be used, typically, this would be Renishaw's new **OTS** tool-setter and **OMP40-2** inspection probe.

The **OMI-2T** optical interface utilises Renishaw's modulated optical transmission, thereby offering the highest level of resistance to light interference. The **OMI-2T** is also used to activate either the spindle probe or tool-setting probe and gives visual indication of the activated device.

For broken tool detection and rapid tool length/diameter measurement use the new **OTS**, Renishaw's first tool setting probe with optical transmission. The robust, compact and cable-free design allows freedom of table movement, ideal for twin pallet or rotary table machines.

Also take advantage of the new **OMP40-2** inspection probe with modulated transmission, a truly compact probe system that can be used to automatically carry out on-machine component setting and inspection.

Or, as the **OMI-2T** can control two probes, choose any two of Renishaw's range of probes with modulated optical transmission to best suit your machining application.



Different probe combinations

Flexible twin probe system configurations, using one receiver and two probes, can provide an easily integrated solution for most on-machine inspection applications.



Cable free tool-setting

Cable free operation of the new **OTS** is ideal for easy installation and keeping a tidy machine environment - ideal for compact machining centres and rotary table or twin pallet machines.



Fast and accurate set-up/inspection

Invest in automatic on-machine component and tool inspection to save time and reduce scrap, enabling you to become more competitive in your market.



Specification - OMP40-2 spindle probe

Principal application

Very small machining centres and drill/tap machines

Dimensions

Length: 50 mm (1.97 in)

Diameter: 40 mm (1.57 in)

Transmission type 360° infra-red optical transmission

Operating range Up to 4 m (13.1 ft)

Receiver/interface OMI-2T (OMI-2,OMM/MI12 for single installations)

Sense directions Omni-directional: ± X, ± Y, +Z

Uni-directional repeatability 1.0 µm (0.00004 in)

+Z direction 6 mm (0.23 in)

Battery type 1/2 AA Lithium Thionyl Chloride (3.6 V) x 2

Battery life stand by 180 days 5% usage 80 days

continuous life 140 hours

Sealing IPX8



Principal application Tool length and diameter checking on vertical machining centres

 Dimensions
 Length: 119 mm
 Height: 93 mm

 Transmission type
 Directable infra-red optical transmission

Operating range 4 m (13.1 ft)

Receiver/interface OMI-2T (OMI-2 for single installations)

Sense directions Omni-directional: $\pm X$, $\pm Y$, +Z

Uni-directional repeatability 1.0 µm (0.00004 in)

Stylus overtravel XY plane ± 3.5 mm

+Z direction 6 mm (0.23 in)

Battery type 1/2 AA Lithium Thionyl Chloride (3.6 V) x 2

Battery life stand by 180 days

5% usage 100 days continuous life 300 hours

Sealing IPX8

Specification - OMI-2T interface/receiver

Principal application Combined optical transceiver/interface, which conveys

and processes signals for two different probes sequentially

Dimensions Depth: 46.7 mm (1.84 in) Diameter: 84 mm (3.30 in)

Power supply 12 V to 30 V d.c.

Sealing IPX8

Turn ON/OFF control 2 pairs of 'M' code outputs to select required probe

Output 2 x status SSR (simultaneous)

error SSR

low battery SSR

More information

For further details on the products mentioned in this flyer and to download detailed data sheets, please visit www.renishaw.com and choose Machine tool products.

For worldwide contact details please visit our main website at www.renishaw.com/contact

