RENISHAW OMP 10 PA 10 PA

Optical Machine Probe



The **Renishaw OMP40-2** features a compact design with optical transmission for small machining centers and machines fitted with small HSK and small taper spindles.

Benefits

- Reduced set-up & calibration routines provide more time for machining cycles
- · Improved process control and quality
- Reduced, rework, concessions and scrap
- Less operator intervention
- · Long service life
- Fast to install & easy to use
- Used with automatic tool changers

Features

- Touch trigger probe with proven kinematic design offering 1.00 μm 2σ repeatability
- Modulated transmission for exceptional resistance to light interference
- Sealed to IPX8 for use in the harshest machinging environments
- Ultra-compact probe design (40mm Ø x 50mm long)
- 360° transmission envelope for maximum configurability
- Wide variety of shanks to fit nearly all machining centers





Specifications

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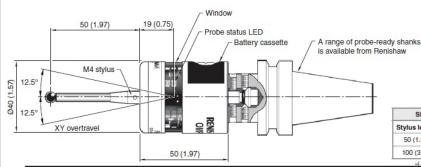
Primary application	Inspection probe for machining centers.
Sense directions	±X ±Y +Z
Trigger force using 50 mm (1.97 in) stylus low force direction	XY 0.5 N / 50 gf (1.76 ozf) Z 5.85 N / 585 gf (20.62 ozf)
Trigger force using 50 mm (1.97 in) stylus high force direction	XY .09 N / 90 gf (3.17 ozf) Z 5.85 N / 585 gf (20.62 ozf)
Overtravel	XY 12.5° Z 6 mm (0.24 in)
Sealing	IPX8 (BS 5490, IEC 529) 1 atmosphere
Repeatability maximum 2σ value in any direction	1.0 µm (0.00004 in) is valid for test velocity of 480 mm/min (1.57 ft/min) at stylus 50 mm (1.97 in) long.

Battery Life (2 x AA 3.6 V lithiumthionyl chloride)

Stand-by Life	5% usage - 72 min/day	Continuous use
Typical (days)	Typical (days)	Typical (days)
Standard power mode	Standard power mode	Standard power mode
1900	115	170

Renishaw Inspection Plus Software Cycles

- X or Y or Z single surface measure
- Web/pocket measure
- 4 point bore/boss measure
- Internal/external corner
- 3 point bore/boss vector measure
- Angled XY surface measure
- Holes on a pitch circle diameter (PCD) ie: Bolt hole patterns
- 4th axis measure. Can be modified for 4th and 5th axis applications
- Stock allowance
- Multi-stylus calibration with option to run multiple probes with different stylus angles
- Calibration on a ring or sphere available
- XYZ single surface vector measurement
- Optional software available for true 3D and form measurement



Stylus overtravel limits			
Stylus length	±X/±Y	Z	
50 (1.97)	12 (0.47)	6 (0.24)	
100 (3.94)	22 (0.87)	6 (0.24)	

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