

OMP400 - An unrivalled combination of size, robustness and accuracy

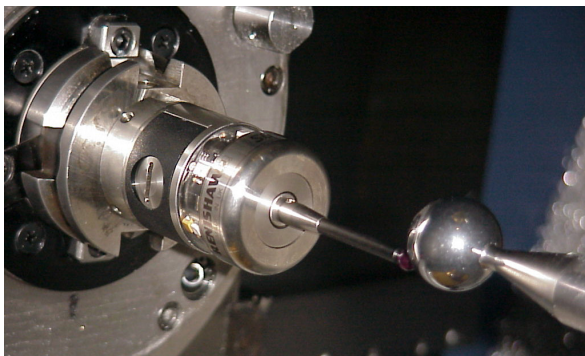
The OMP400 from Renishaw is an innovative, ultra-compact strain gauge probe for small machining centres, offering reduced set-up times, reduced scrap, reduced fixture costs, improved process control and high accuracy on-machine measurement.

Measuring only 40 mm in diameter and 50 mm in length, the OMP400 combines the miniaturisation of the highly successful OMP40 probe with new advances in strain gauge technology, pioneered by Renishaw's high accuracy MP700 probe.

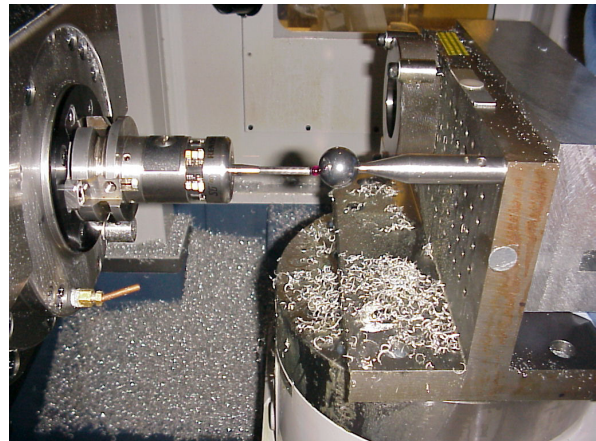
Using Renishaw's advanced strain gauge technology, the OMP400 can achieve far greater levels of accuracy than is possible when using a standard mechanical probe, making it suitable for a range of applications where high precision measurement is a must.

Using strain gauges, the probe is able to trigger at much lower and highly consistent contact forces, resulting in less bending of the stylus, negligible pre-travel, and consequently greater accuracy. First seen on the MP700 spindle-probe, strain gauge technology is unique to Renishaw and also offers improved probe repeatability.

The OMP400 features a robust design that surpasses the standards of its predecessors.



It is sealed to IPX8 and is built to withstand the harshest machine tool environments, giving greater resistance to stylus overtravels and shocks caused by tool changers. Battery life provides up to 50 hours of continuous use.



The probe's diminutive size allows small machine users to benefit from the high accuracy of strain gauge technology for the first time. The OMP400 is suitable for use on machines with short Z-axis travel and spindles as small as HSK32.

Furthermore, the probe features Renishaw's existing transmission system and a new 'modulated' method, offering improved resistance to optical interference. This means the OMP400 can be partnered with either existing OMM and OMI receiver, or the new OMI-2 integrated receiver and interface. It is ideal for retrofitting to existing machines, or as a simple upgrade for existing probe users.

Renishaw's OMP400 optical probe offers a truly unrivalled combination of size, accuracy, reliability and robustness, and can bring the plentiful benefits of probing to many high accuracy applications.