

MH20i indexing probe head

Manual head with repeatable indexing and probe module changing

MH20i is a compact manual probe head that offers the significant advantage of repeatable indexing, vastly improving productivity for multi-orientation measurement applications. It can be installed on new and existing measuring machines via a shank mounting, and is best suited to manual CMMs.

The integral TP20 probe mount makes MH20i compatible with the full range of TP20 modules. Repeatable interchange between qualified probe modules, coupled with repeatable indexing, gives maximum productivity.

The range of TP20 modules provides a selection of trigger forces and directional sensing options, as well as increased reach with EM1 and EM2 extension bars, and gives some crash protection in the event of accidental collision.

Initial qualification of each measuring position and stylus combination is all that is required.



Key benefits

Indexing

Repeatable indexing removes the need for constant re-qualification.

Productivity

Improved productivity is realised via probe module changing and indexing without re-qualification.

Increased reach and flexibility

Extension bars available, with up to 75 mm extra reach (125 mm from TP20 mount including max styli).

Innovations

Repeatable probe changing

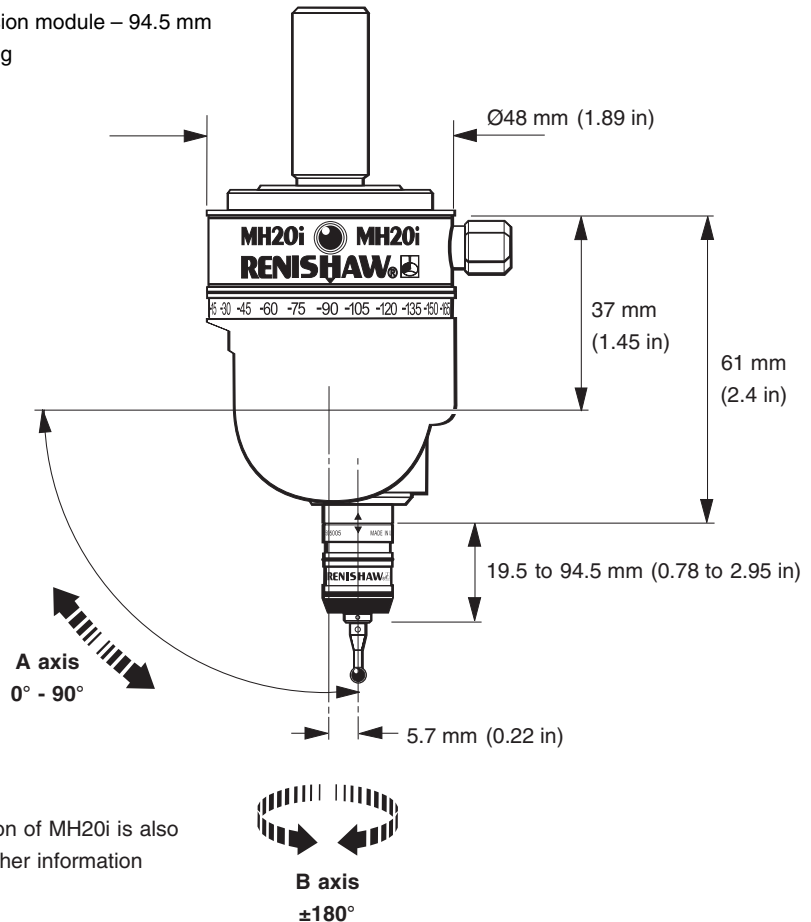
The TP20 range offers repeatable probe module changing, allowing the use of different stylus configurations, without the need for re-qualification.

Crash protection

TP20 modules have overtravel in all directions. The magnetic mounting provides additional crash protection in X and Y.

Specification

Length	61 mm (2.4 in) (from shank mounting face to kinematic mount)
Diameter	48 mm (1.89 in)
Weight	210 g (7.41 oz) (no shank)
Probe mounting	TP20 kinematic mount
Head mounting	MS range of shanks
Suitable interface	Standard touch trigger interface
Probe status indication	1 LED
Cable connection	5 pin DIN 180° socket
A axis indexing	0° - 90° in 15° increments
B axis indexing	±180° in 15° increments
Repeatability of position (2σ)	1.5 μm (0.00006 in) (TP20 standard force and 10 mm stylus)
Maximum extension bar	EM2 extension module – 94.5 mm (2.95 in) long



Additional information

A non-repeatable, infinite positioning version of MH20i is also available, and is known as MH20. For further information please refer to www.renishaw.com/MH20.

Further information, regarding MH20 and MH20i, including part numbers, is available on MH20 & MH20i data sheet (H-1000-2195).

A variety of shanks are available for MH20i. To select the correct MH20i kit for your machine refer to www.renishaw.com/MH20i.

For information regarding TP20 please refer to www.renishaw.com/TP20 or see TP20 flyer (H-1000-3169).

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