MH20 and MH20i Manual probe heads with modular flexibility

РНЮМО Preferences! Pick Comm 2.99 +

MH20 Ultra compact with fully adjustable orientation

Fully compatible with probe modules from the extensive TP20 system range

MH20i Repeatable indexing in a compact design

mproving the performance of Co-ordinate Measuring Machines

Probe E

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Renishaw's extensive range of manual head systems provide an economical solution to everyday inspection needs.

Improved performance



The MH20 and MH20i are the new generation of manually adjustable probe heads from Renishaw. Suitable for installation on new and existing Co-ordinate Measuring Machines (CMMs), both probe heads incorporate Renishaw's TP20 kinematic probe mount, which permits repeatable probe module changing. This unique system enables productivity improvements to be made through rapid changes in probe/stylus configurations. The incorporation of the modified TP20 kinematic probe mount results in a compact design permitting a larger CMM working volume.

Benefits include:

- Enhanced inspection capability through adjustable probe orientation.
- Improved productivity by means of probe module changing without re-qualification.
- Optimum working volumes provided by compact design.
- Choice of fully flexible (MH20) or indexable (MH20i) orientation.
- Smooth position changing through purpose designed locking mechanisms.
- Easy installation on CMMs using industry standard shanks.

Modular stylus changing

Both heads have been specifically designed to maximise the benefits associated with Renishaw's revolutionary TP20 probe system. This concept enables various different probing configurations to be used during an inspection cycle without the need for time consuming probe re-qualification. The TP20 probe module range provides a selection of trigger force, length and directional sensing options and allows a maximum stylus carrying capability of 60 mm and overall reach of 145 mm. The current range includes: For general use:

• Standard, medium and extended force probe modules, suitable for most applications.

Two additional standard force probe modules providing extended reach:

• EM1 and EM2 (50 mm and 75 mm extra reach respectively).

Two probe modules that are designed specifically for specialist applications:

- Low force for measurement of delicate objects.
- 6-way sensing for measurement of undercuts where access limitations would otherwise make inspection difficult.

The four trigger force levels ensure measurement consistency and eliminate the requirement for manual adjustment.



Module storage



MH20 and MH20i are principally designed for installation on manual CMMs, however their productivity enhancing modular flexibility and compact design means they are also suitable for smaller Direct Computer Controlled (DCC) CMMs, where automatic stylus changing is not a requirement.

For the convenient storage of probe modules, MSR1 (manual storage rack) provides protection from possible contaminants in the working environment. It is available for mounting on horizontal or vertical surfaces.

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MH20

Ultra compact manually adjustable probe head

The MH20 is a compact probe head offering maximum flexibility in probe orientation. The full range of TP20 probe modules can be used via its integral probe mounting.



Key benefits:

- Ultra compact design maximises CMM working volume.
- Flexible probe orientation optimises work-piece accessibility.
- Repeatable TP20 stylus module changing designed to enhance productivity.
- Easy installation on to new and existing CMMs via a range of standard shanks.

MH20i

Compact probe head with repeatable indexing



The MH20i offers the significant advantage of repeatable indexing positions, vastly improving productivity for multi-orientation measurement applications. Ideal for use where several probe/stylus configurations and head positions enable the comprehensive measurement of a part in a single routine.

Key benefits:

- Repeatable index positions eliminate the need for constant

MH20i

NISHAW®

60

75

the need for constant re-qualification.

- 168 positions (at 15° increments) offer maximum flexibility in repeatable probe orientation.
- Lock /unlock feature allows ease of positioning and eliminates unnecessary wear.
- Easy-to-read scales for rapid re-orientation to qualified positions.

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For further information on the MH20 and MH20i please refer to Data Sheet H-1000-2195

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Global solutions from Renishaw

Renishaw is an established world leader in metrology, providing high performance, cost-effective solutions for measurement and increased productivity. A worldwide network of subsidiary companies and distributors provides exceptional service and support for its customers.

Renishaw designs, develops and manufactures products which conform to ISO 9001 standards.

Renishaw provides innovative solutions with the following products:

- Probe systems for inspection on CMMs (co-ordinate measuring machines).
- Systems for job set-up, tool setting and inspection on machine tools.
- Scanning and digitising systems.
- Laser and automated ballbar systems for performance measurement and calibration of machines.
- Encoder systems for high accuracy position feedback.
- Spectroscopy systems for non-destructive material analysis in laboratory and process environments.



A Tech Authoirty, Inc 3857 Schaefer Ave, Ste C Chino, CA. 91710 (909)972-7520 www.atechauthority.com Australia - Renishaw Oceania, Melbourne Tel +61 3 9553 8267 Fax +61 3 9592 6738 email: australia@renishaw.com

Brazil - Renishaw Latino Americana Ltda, São Paulo Tel +55 11 4195 2866 Fax +55 11 4195 1641 email: brazil@renishaw.com

The Peoples' Republic of China Renishaw Representative Office, Beijing Tel +86 10 6410 7993 Fax +86 10 6410 7992 email: china@renishaw.com

Renishaw Representative Office, Shanghai Tel +86 21 6353 4897/5697 Fax +86 21 6353 4881 email: china@renishaw.com

France - Renishaw S.A., Marne la Vallée Tel +33 1 64 61 84 84 Fax +33 1 64 61 65 26 email: france@renishaw.com

Germany - Renishaw GmbH, Pliezhausen Tel +49 7127 9810 Fax +49 7127 88237 email: germany@renishaw.com

Hong Kong - Renishaw (Hong Kong) Ltd, Kowloon Bay Tel +852 2753 0638 Fax +852 2756 8786 email: hongkong@renishaw.com

India - Renishaw Metrology Systems Pvt Ltd, Bangalore Tel +91 80 5320 144 Fax +91 80 5320 140 email: india@renishaw.com

Indonesia - Renishaw Representative Office, Jakarta Tel +62 21 428 70153 Fax +62 21 424 3934 email: indonesia@renishaw.com

Italy - Renishaw S.p.A., Torino Tel +39 011 966 10 52 Fax +39 011 966 40 83 email: italy@renishaw.com

Japan - Renishaw K.K., Tokyo Tel +81 3 5332 6021 Fax +81 3 5332 6025 email: japan@renishaw.com

Singapore - Renishaw Representative Office Tel +65 8975466 Fax +65 8975467 email: singapore@renishaw.com

South Korea - Renishaw Liaison Office, Seoul Tel +82 2 565 6878 Fax +82 2 565 6879 email: southkorea@renishaw.com

Spain - Renishaw Iberica S.A., Barcelona Tel +34 93 478 21 31 Fax +34 93 478 16 08 email: spain@renishaw.com

Switzerland - Renishaw A.G., Pfäffikon Tel +41 55 410 66 66 Fax +41 55 410 66 69 email: switzerland@renishaw.com

Taiwan - Renishaw Representative Office Tel +886 4 251 3665 Fax +886 4 251 3621 email: taiwan@renishaw.com

UK (Head Office) - Renishaw plc, Gloucestershire Tel +44 1453 524524 Fax +44 1453 524901 email: uk@renishaw.com

USA - Renishaw Inc., Illinois Tel +1 847 286 9953 Fax +1 847 286 9974 email: usa@renishaw.com

For all other countries Tel +44 1453 524524 Fax +44 1453 524901 email: international@renishaw.com

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