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Ручные системы

МН20

МН20 is a manually adjustable probe head with an integral TP20 kinematic stylus module mount.



The A-axis rotates through $\pm 93^\circ$ in the X-Y plane. The B-axis rotates through $\pm 300^\circ$ in the Z plane. A thumbwheel locks the swivel in any position within the movement envelope of the head.

Qualification must take place after each head adjustment, but TP20 modules can be changed repeatably, provided qualification has already taken place and the head has not been re-adjusted.

Length	731 mm
Diameter	31.5 mm
Weight	100 g
Probe mounting	TP20 kinematic mount
Head mounting	MS/T range of shanks
Suitable interface	PI 200-3
Number of probe sockets	1
Probe status indication	1 LED
Cable connection	5 pin DIN 180° socket
A-axis indexing	Non-indexing swivel $\pm 93^\circ$
B-axis indexing	Non-indexing swivel $\pm 300^\circ$
Maximum extension bar	EM2 extension module - 75 mm (2.95 in)

MH20i

Manual indexable probe head that combines the TP20 kinematic stylus module mount with two axis indexing, enabling flexible stylus changing and repeatable probe re-orientation.



The A-axis rotates through $\pm 180^\circ$ in the X-Y plane. The B-axis rotates through 90° in the Z plane. A lever locks the head in one of up to 168 repeatable positions, set at 15° increments.

The head is capable of carrying the full range of TP20 modules, which can be changed without re-qualification, providing qualification has taken place in each position with each stylus / module combination.

Length	61 mm
Diameter	48 mm
Weight	210 g
Probe mounting	TP20 kinematic mount
Head mounting	MS range of shanks
Suitable interface	PI 200-3
Number of probe sockets	1
Probe status indication	1 LED
Cable connection	5 pin DIN 180° socket
A-axis indexing	0° to 90° in 15° repeatable steps
B-axis indexing	180° in 15° repeatable steps
Repeatability of position	1.5 μm (0.00006 in) (TP20 and 10 mm stylus fitted) 2.5 μm (0.0001 in) (EM2 extended module and 10 mm stylus)
Maximum extension bar	EM2 extension module - 75 mm (2.95 in)

MH8

The MH8 is a manual indexing probe head with an M8 thread probe connection designed for use on small manual CMMs.



The MH8 can carry any of Renishaw's M8 probes and the reach can be extended by fitting a 50 mm probe extension bar.

Weight	205 g
Probe mounting	M8 thread
Head mounting	MS range of shanks
Suitable interface	PI 200-3
Probe status indication	1 LED
Cable connection	5-pin DIN 180° socket
A-axis indexing	0° to 90° in 15° repeatable steps = 7 positions
B-axis indexing	±180° in 15° repeatable steps = 24 positions
Repeatability of position (2s)	1.5 µm (0.00006 in) TP2 and 10 mm (0.39 in) stylus fitted
Maximum extension bar	50 mm (1.97 in) PEL1 only

MIH

A manually indexable head with 720 locking positions, featuring an integral LCD display.



The MIH features an autojoint probe mount for fast, repeatable probe changing. This ensures compatibility with most Renishaw probes except multiwire (e.g. TP7M).

An integral LCD enables easy programming with the facility to memorise up to 20 probe positions.

The MIH is designed for use with long probe extensions for larger components.

Weight	580 g
Probe mounting	Autojoint (NOTE: There is no multi-wire capability)
Head mounting	MS range of shanks
Suitable interface	PI 200-3, PI 7-3
Probe status indication	LED
Cable connection	5-pin DIN 180° socket
A-axis indexing	0° to 105° in 7.5° steps
B-axis indexing	±180° in 7.5° steps
Repeatability of position (2s)	1 µm (0.00004 in) TP6A and 21 mm (0.83 in) stylus
Maximum extension bar	300 mm (11.81 in)
Maximum recommended torque	0.45 Nm

PH1

PH1 is a small shank mounted manual probe head with movement in the A and B axes, with limited overtravel protection.



The PH1 is a general purpose, swivel-type probe head. Its compact design makes it ideally suited to a CMM where manual orientation of a Renishaw M8 touch-trigger probe is required.

Weight	125 g
Probe mounting	M8 thread
Head mounting	MS range of shanks
Suitable interface	PI 200-3
Probe status indication	1 LED
Cable connection	5-pin DIN 180° socket
A-axis indexing	Swivel of 115° locked with hexagonal key (3 mm A/F)
B-axis indexing	15° steps through 360°

PH6

The PH6 is a fixed head with autojoint connector for probes and adaptors.



The PH6 is a small diameter, vertical probe head with one M8 thread probe mount for a single probe, with an integral cable.

- Compatible with M8 probes
- Shank mounted
- Simple to install

Weight	48 g
Probe mounting	M8 thread
Number of probe sockets	1
Probe status indication	1 LED
Cable connection	Integral cable

PH6M

The PH6M is a fixed head with autojoint connector for probes and adaptors.



The PH6M is compatible with multiwired probes TP7M, OTP6M and SP600M, as well as the complete Renishaw probe range through the use of the PA series of adaptors.

Weight	160 g
Number of probe sockets	1 autojoint
Probe status indication	1 LED
Cable connection	Micro 'D' connector
Repeatability of position	1 µm (0.00004 in) autojoint
Maximum extension bar	300 mm

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