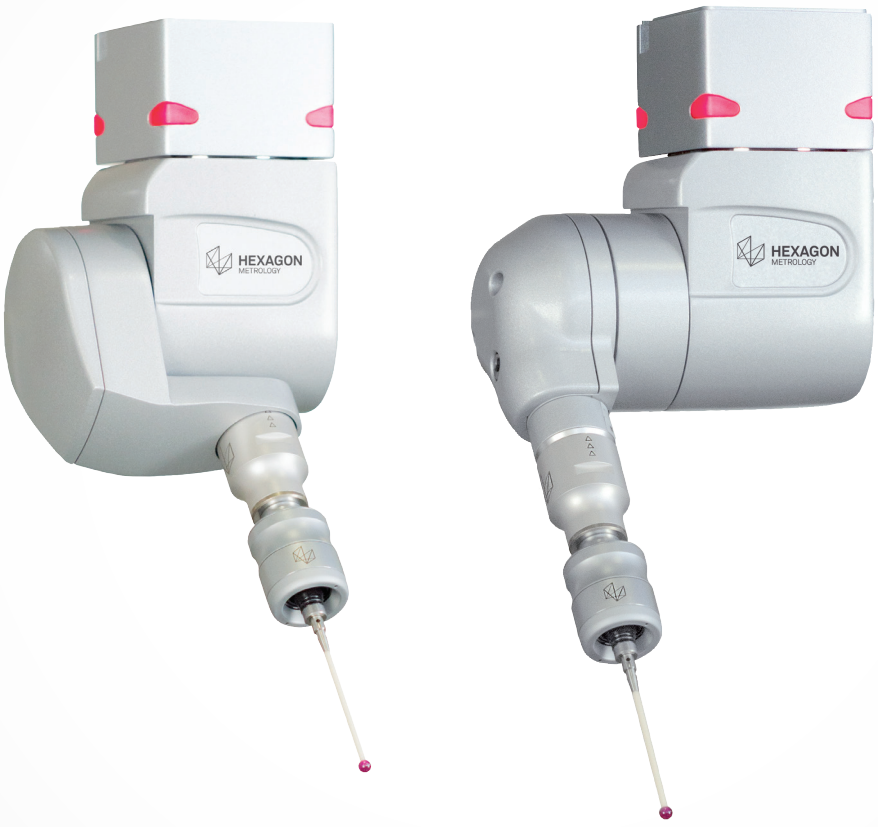
PRODUCT BROCHURE

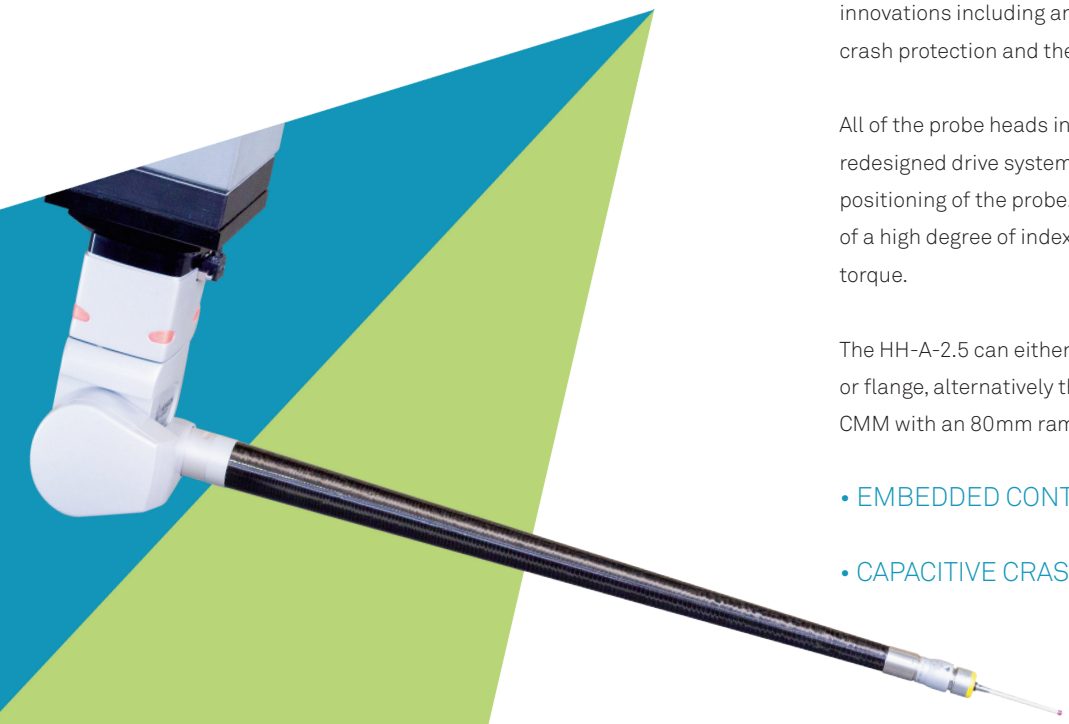
HEXAGON METROLOGY

HH-A-T2.5 | HH-A-H2.5

Probe Heads for CMMs



A NEW DEGREE OF FREEDOM



HH-A-T2.5 | HH-A-H2.5

Automatic indexable Probe Heads

The HH-A-2.5 range of probe heads feature a number of new innovations including an fully embedded controller, capacitive crash protection and the all new heavy duty kinematic joint.

All of the probe heads in the range benefit from a completely redesigned drive system including a Hirth Gear for accurate positioning of the probe. The new design delivers the advantage of a high degree of indexable positions and very high rotational torque.

The HH-A-2.5 can either be mounted on the CMM with a shank or flange, alternatively the HH-AS8-2.5 can be mounted on any CMM with an 80mm ram.

- EMBEDDED CONTROLLER
- CAPACITIVE CRASH PROTECTION

HH-A-T2.5

A new degree of freedom

The HH-A-T2.5 is capable of indexing in 2.5° increments and can achieve 12,240 unique positions. The head is fitted with a kinematic joint (TKJ) which can be connected to a Multiwire to give multi sensor support.

The TKJ can be changed either manually without the need for requalification or automatically with the HR-R tool changer.

- INDEXING IN STEPS OF 2.5°
  - 12,240 UNIQUE POSITIONS
- EXTENSIONS UP TO 450mm AVAILABLE
- VERY HIGH ROTATION TORQUE - 1.4 NM

HH-A-H2.5

HEAVY DUTY – for the most challenging applications

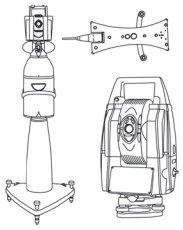
The HH-A-H2.5 is capable of indexing in 2.5° increments and can achieve 20,736 unique positions due to increased rotation of the A Axis (± 180°). The head is fitted with the Heavy duty kinematic joint (HDKJ), which can be connected to a Multiwire to give full multi sensor support.

The HDKJ carries extensions of up to 750mm. Laser scanners and scanning heads can be supported further from the axis of rotation than with conventional probe heads due to the combination of extreme rotational torque and the HDKJ adaptor.

The HDKJ can be changed either manually without the need for requalification or automatically with the HR-R tool changer fitted with the optional HR-RH Heavy duty module changer.

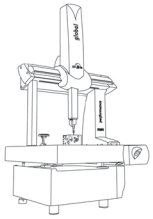
- INDEXING IN STEPS OF 2.5°
  - 20,736 POSITIONS FOR HIGHEST FLEXIBILITY
- EXTENSIONS UP TO 750mm AVAILABLE
- EXTREMELY HIGH ROTATION TORQUE - 1.7 NM

TECHNICAL CHARACTERISTICS	**HH-A-T2.5** *TKJ 2.5°* | **HH-AS8-T2.5** *TKJ 2.5°*	**HH-A-H2.5** *HDKJ 2.5°* | **HH-AS8-H2.5** *HDKJ 2.5°*
Indexing Angle	2.5°	
A axis	± 105°	± 180°
B axis	± 180°	± 180°
Total number of Positions	12,240	20,736
Rotation speed	90° in 2,5 s	
Positioning Repeatability	0.5 µm at 100mm from the centre of A Axis rotation	
Max recommended drive torque	1.4 Nm	1.7 Nm
Max Extension Length	450mm	750mm
Weight	1600 g / 1650 g	1550 g / 1600 g
Probe mounting	TKJ (Multiwire)	HTKJ (Multiwire)
Interface	HH-C-V2.0 / HH-CA-V2.0 (With HR-R Automatic Probe Changer)	

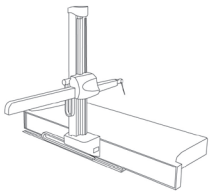


LASER TRACKERS
& STATIONS

PORTABLE MEASURING ARMS

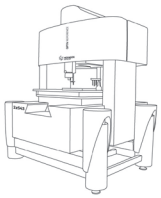


BRIDGE CMMS

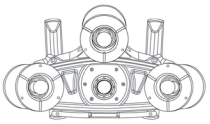


HORIZONTAL ARM CMMS

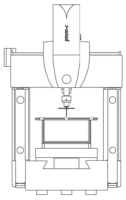
GANTRY CMMS



MULTISENSOR & OPTICAL SYSTEMS



WHITE LIGHT SCANNERS



ULTRA HIGH ACCURACY CMMS

SENSORS

PRECISION MEASURING
INSTRUMENTS

SOFTWARE SOLUTIONS

HEXAGON
METROLOGY

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