

Probe head and sensors

Harness the power of multiple sensors

Body-in-white inspection requires long probe extensions and special angles of approach. This is particularly important when non-contact sensors are used, as the angle of approach may considerably affect probing accuracy. Hexagon's horizontal arm CMMs are available with the HH-ACW-43MW continuous wrist and a range of motorised indexable probe heads, as well as the HP-L-10.10 laser scanner.



Continuous probe head

The HH-ACW-43MW allows full access to the part being measured and automatically changes extensions and adaptors. This continuous wrist is available in a third continuous-axis configuration for the correct application of non-contact sensors.



Indexable probe heads

The HH-A-H2.5 is capable of indexing in 2.5-degree increments and achieving 20 736 unique positions. Fitted with a heavy-duty kinematic joint (HDKJ), it can operate with extensions up to 750 millimetres long.

The HH-A-T2.5 can achieve 12 440 unique positions by indexing in 2.5-degree increments. The head is fitted with a kinematic joint (TKJ), allowing extensions up to 450 millimetres.

The HH-A-5 can rotate about two axes in 5-degree increments, which translates to a total of 3 024 possible positions. The robust aluminium construction permits extension rods with lengths over 300 millimetres.



HP-L-10.10 laser scanner

The HP-L-10.10 laser scanning sensor delivers the most accurate results combined with the highest speed and unique handling features. It's especially powerful when measuring complex surfaces and workpieces made of materials that are typically difficult to measure. The HP-L-10.10 collects up to 600 000 points per second with a probing form error of just 8 microns, which makes it the most powerful laser scanning solution on CMMs.