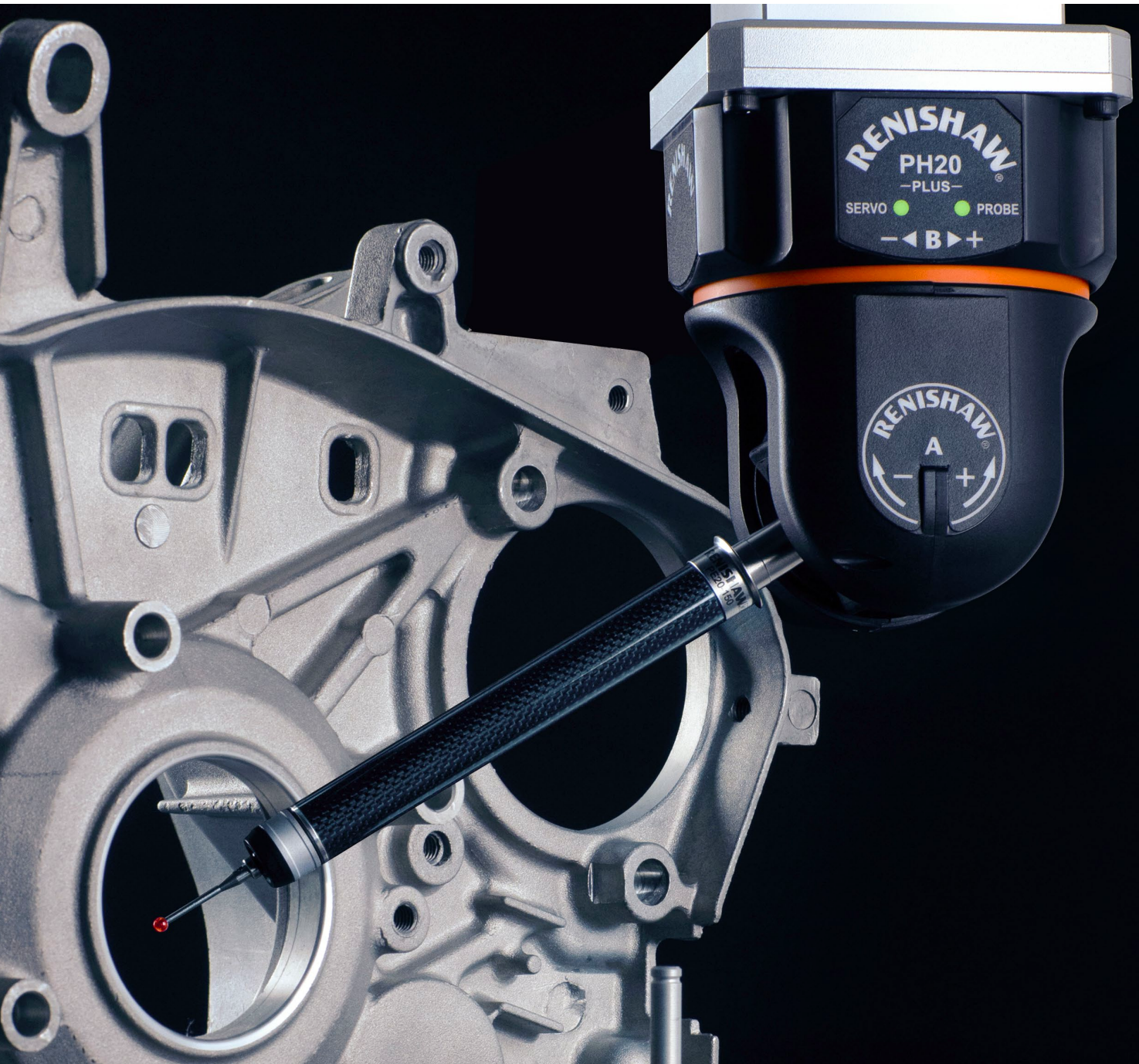




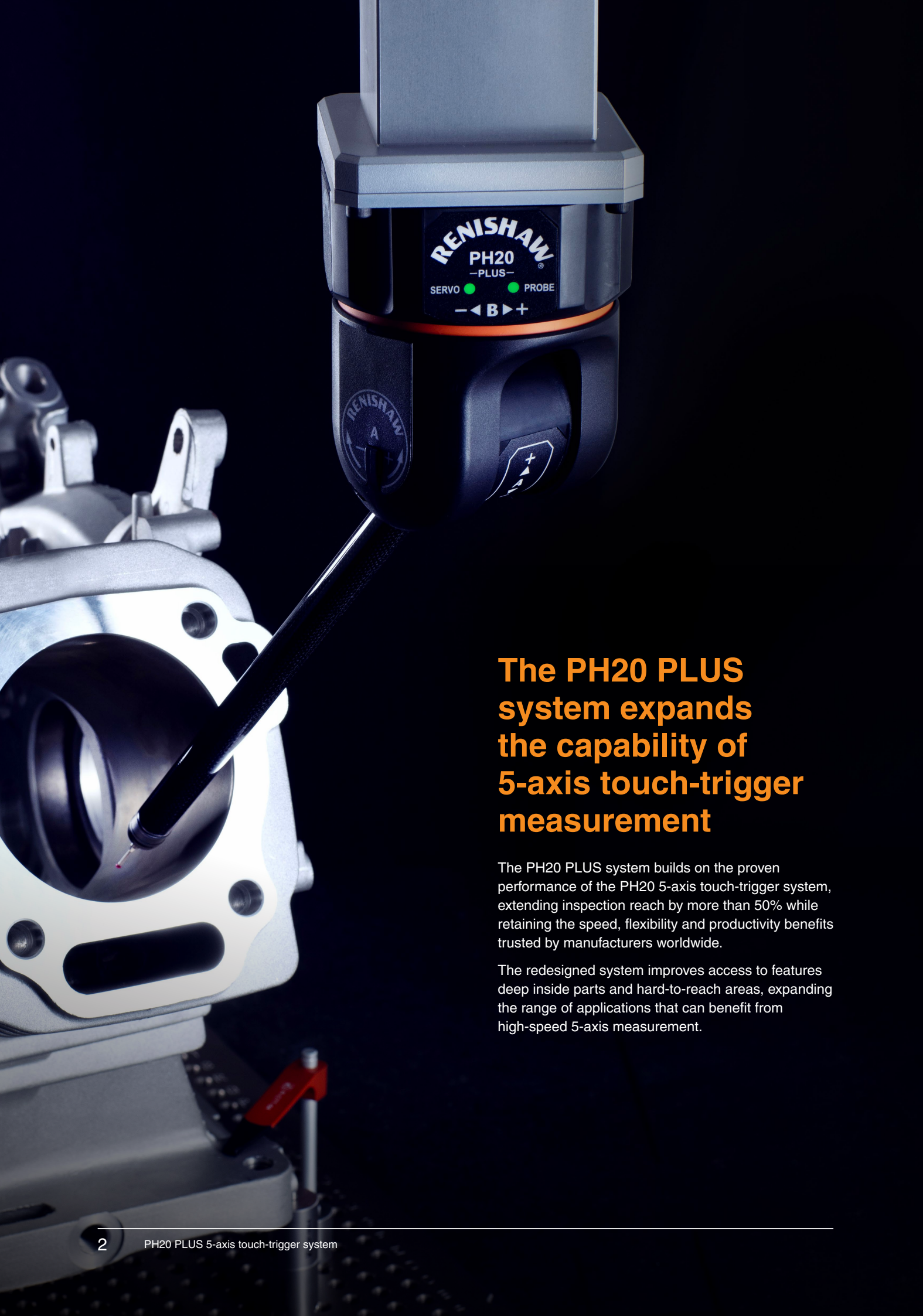
PH20 PLUS 5-axis touch-trigger system

Fast, accurate 5-axis technology with up to 300 mm reach for touch-trigger applications on all sizes of co-ordinate measuring machine (CMM).

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The PH20 PLUS system expands the capability of 5-axis touch-trigger measurement

The PH20 PLUS system builds on the proven performance of the PH20 5-axis touch-trigger system, extending inspection reach by more than 50% while retaining the speed, flexibility and productivity benefits trusted by manufacturers worldwide.

The redesigned system improves access to features deep inside parts and hard-to-reach areas, expanding the range of applications that can benefit from high-speed 5-axis measurement.

Increased throughput

Using 5-axis measurement technology, the PH20 PLUS system captures measurement points through rapid head motion instead of moving the complete CMM structure. This enables faster point acquisition while improving accuracy and repeatability.

Eliminating time needed to index the head between measurements also reduces cycle times, helping users achieve significant productivity gains compared with conventional 3-axis inspection.

Easy access to features at any angle

Infinite positioning capability provides optimal feature access while minimising stylus changes. Simultaneous 5-axis motion reduces the space required around the part for head rotation, allowing larger components to be measured on the CMM.

The system automatically aligns to the part co-ordinate system, reducing fixturing requirements, and the risk of stylus collisions.





Measure more features

The PH20 PLUS system has been specifically developed to improve access to features that are difficult to reach using conventional probe configurations. A redesigned kinematic mount supports longer and heavier probe assemblies, enabling inspection deeper inside complex parts.

With a 50 mm stylus, it delivers a maximum working length of up to 300 mm from the centre of the A-axis, extending reach by more than 50% compared with the original PH20 system. This additional reach expands the accessible measurement volume and increases application flexibility across a wider range of components.

Straightforward integration

The PH20 PLUS system has been designed as a direct replacement for the original PH20, enabling users to benefit from increased reach while maintaining compatibility with existing hardware, software and measurement routines.

Existing UCC T5 controller installations are supported*, helping make upgrades straightforward and cost-effective while maintaining proven system performance.



*Requires UCCsuite version 5.13 or later.

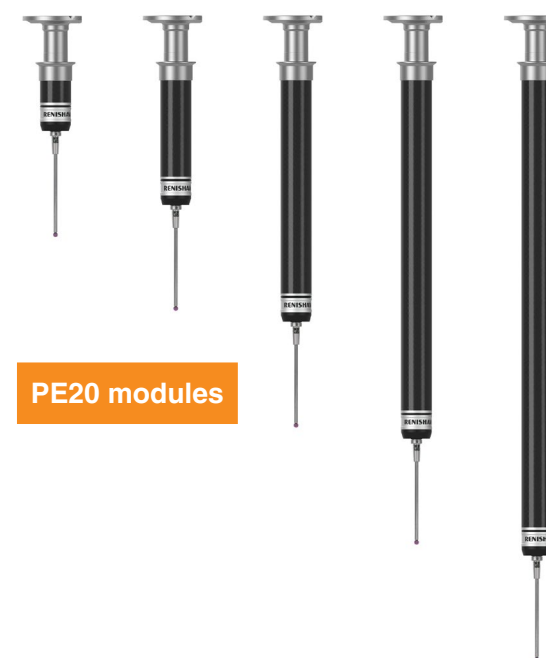
Proven 5-axis measurement with extended reach

The PH20 PLUS system combines the productivity advantages of proven PH20 technology with a substantial increase in inspection reach. Manufacturers can access more features, inspect a wider range of components and continue to benefit from fast, flexible and accurate 5-axis touch-trigger measurement.

5-axis touch-trigger metrology performance

- Repeatability – improved through proven head-touch measurement techniques.
- Accuracy – enhanced through feature-orientation calibration, head touches, and compensation of pre-travel variation.
- Flexibility – automatic module changing with support for a wider range of probe configurations.
- Accessibility – measure more features with fewer stylus changes.





PE20 modules



TP20 modules

Automatic module changing

A new modular rack system supports automatic and repeatable probe module changing. Configurable rack ports accommodate both TP20 and PE20 modules, enabling flexible system configurations. A powered PCR20 rack is also available for automated storage and changing of multiple modules and accessories.



New PE20 range of modules

A new family of PE20 modules has been developed specifically for the PH20 PLUS head. The redesigned kinematic interface supports longer and heavier modules, extending maximum reach by 107 mm compared with the original PH20 system.

Together, these configurations enable a maximum working length of up to 300 mm when used with a 50 mm stylus, providing greater flexibility for challenging measurement applications.

Backwards compatibility protects existing investment

Existing TP20 probe modules can continue to be used through the PB20 adaptor, allowing customers to retain current hardware, stylus configurations and established measurement strategies. Existing part programmes can also be maintained, helping minimise upgrade costs and implementation effort.



The PH20 PLUS system can be configured to match the effective working length of existing PH20 installations, simplifying upgrade and replacement decisions.

Key system benefits

Up to 300 mm working length

Over 50% greater reach improves access to features deep inside parts and hard-to-reach areas, increasing application flexibility.

Fast, accurate 5-axis measurement

Retains the proven head-touch measurement technology, infinite positioning capability and productivity benefits of the PH20 system.

Protect existing investment

Supports existing TP20 probe modules, established part programmes and proven inspection strategies, helping minimise upgrade costs and implementation effort.

Straightforward integration

Designed as a direct replacement for the PH20 system, simplifying installation and supporting compatibility with existing UCC controller systems.

Automatic module changing

New PE20 modules and modular rack solutions provide greater flexibility across a wider range of inspection applications.

A history of innovation

Renishaw is an established world leader in engineering technologies with a strong history of innovation in product development and manufacturing. Our metrology leadership and our reputation for engineering excellence have put us at the forefront of our markets since 1973.

We design, develop, and deliver solutions and leading-edge products that help manufacturers maximise production output, significantly reduce the time taken to produce and inspect components, and keep their machines running reliably.

A worldwide network of subsidiary companies and distributors provides exceptional service and support for our customers.



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