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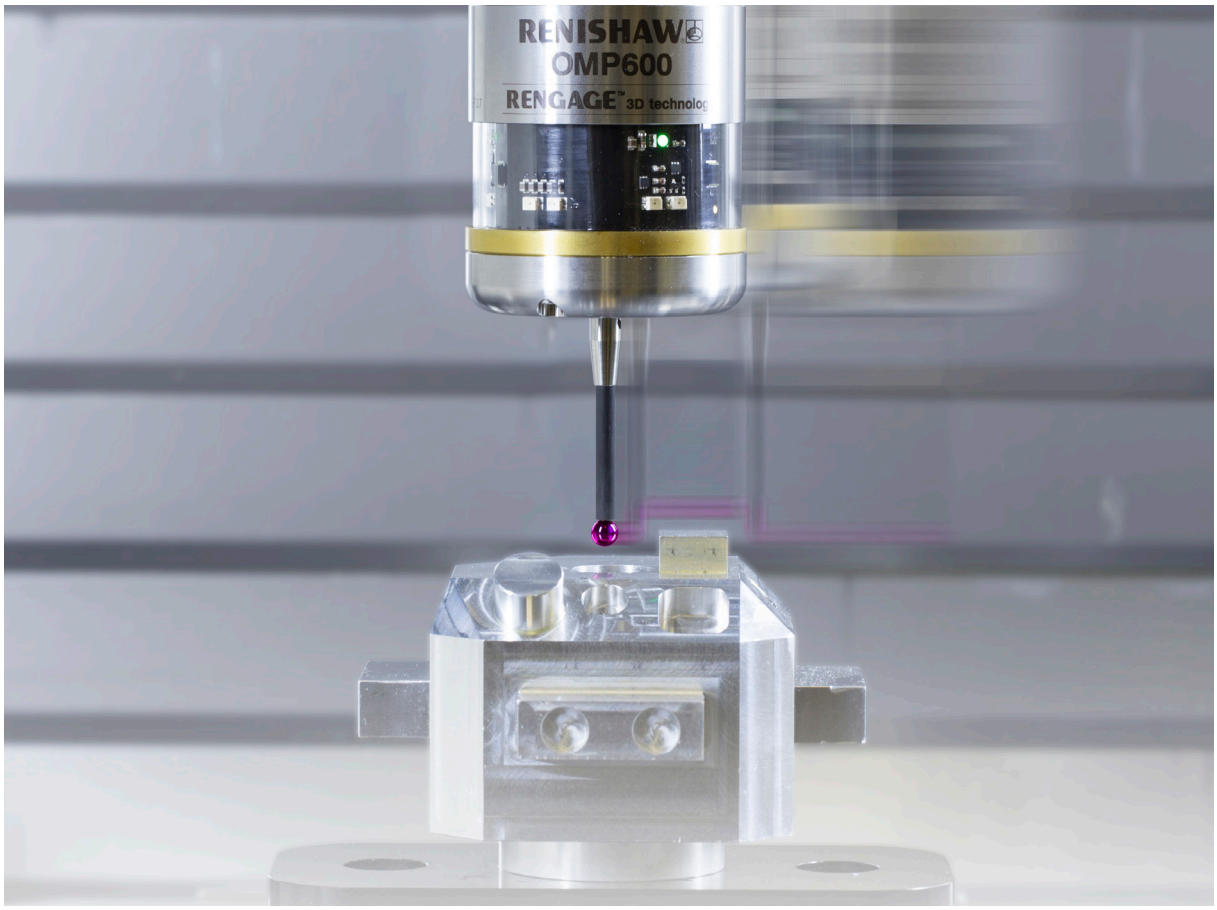
Smart speed – reliable measurement



Many companies suggest probing speeds and one-touch measurements are the route to fast probing cycle times. Not Renishaw.

Simply turning up the feedrate and selecting a one-touch strategy without considering the application or the machine tool can significantly reduce measurement capability.

Each probe installation combines with a machine tool and its controller to form a measurement system, with different processes and part features introducing variables.

To achieve optimum speed whilst maintaining the best accuracy requires applications expertise.

Developed from the broadest on-machine probing experience, Renishaw's intelligent technology – Inspection Plus with SupaTouch technology – will work with the specific characteristics of your machine, controller and probe to deliver the fastest cycles possible without costing you measurement accuracy.

SupaTouch optimises your machine, controller and probe as a system and, 'on the fly', intelligently selects either one-touch or two-touch measurement with the fastest possible positioning and measurement feedrates for your application.

Coupled with the best possible measurement certainty, it's the next best thing to having your own resident Renishaw applications expert ...

… And when combined with probing cycle time reductions of up to 60% and improved measurement capability, it's the smart choice.

- Maximum speed, minimum cycle time
- Optimal measurement performance from every machine tool
- Intelligent optimisation

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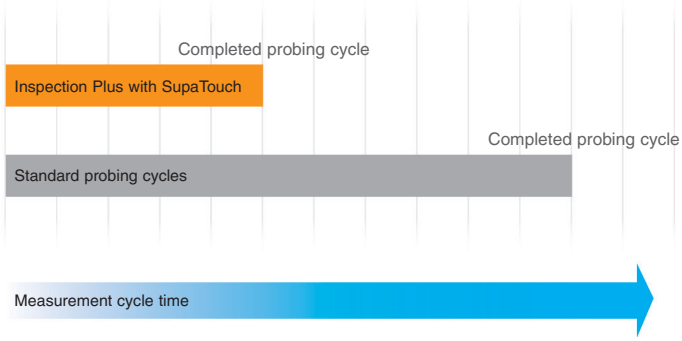
Unique to Inspection Plus with SupaTouch

Automated optimisation – the key to smart speed

A simple optimisation routine forms part of the calibration process required for every probe before it can be used reliably. Taking just a few minutes, it ensures that all inspection routines are optimised specifically for the individual machine tool.

In real-world operation, users have experienced cycle time reductions of up to 60%, as illustrated in the image below.

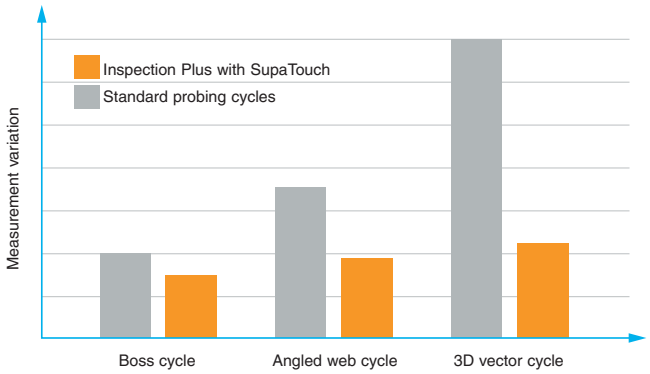


Achieving the best metrology

Advantageous to using 3D vector probing cycles, probe length calibration enables the system to distinguish between the real and electronic probe lengths.

Accurate metrology in all directions is made possible by automated, 'on-the-fly' calculation of the stylus ball radius for every measurement move.

From the simple prismatic to the more complex 3D cycles, Inspection Plus with SupaTouch can improve accuracy and repeatability in all directions. The image below illustrates typical improvements that can be achieved.



More information

For further details on the products mentioned in this flyer please visit **www.renishaw.com/supatouch**

For worldwide contact details, visit www.renishaw.com/contact

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