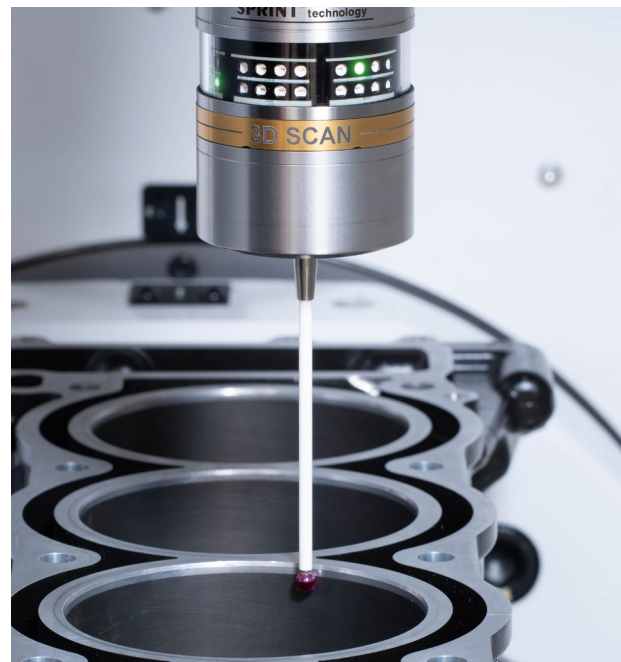


How SPRINT™ machine tool scanning technology can reduce inspection time for cylinder bore form measurement

On-machine scanning

The automotive industry is facing a multitude of challenges including rising energy costs and skilled labour shortages. This is compounded by the need to convert existing internal combustion engine (ICE) manufacturing facilities to meet the increasing demand for hybrid and electric vehicles (EVs).

Manufacturers across every tier of the supply chain need to adapt. Right-first-time production is a must, as is maximising throughput from existing manufacturing facilities. Automation is key.



How can investment in on-machine scanning technology help you?

SPRINT™ technology can significantly reduce overall cycle time and increase output on existing CNC machine tools.

This highly accurate on-machine scanning technology for part setting, in-process control and feature verification, reduces the lengthy set up and inspection times often associated with traditional probing methods.

Working with a consortium of leading global automotive manufacturers, Renishaw has implemented bore form measurement on a variety of automotive parts.

In a bore machining application on a cylinder block, probing was originally over 40% of the overall cycle time. Introducing on-machine scanning has reduced cycle time by over 75% and increased part throughput by 30%.

In the new world of EV manufacturing, SPRINT technology can offer cost reductions and time savings through on-machine inspection of the numerous circular features found in the transmission system.



Information in this document is based on an existing installation of a Renishaw OSP60 probe with SPRINT technology.

The Renishaw OSP60 probe with SPRINT™ technology provides:

- An on-machine solution for reduced reliance on offline inspection processes
- High-speed, data-dense metrology information
- Highly accurate results, reducing scrap and rework
- Increased machine capacity and profitability
- Application flexibility beyond part set-up and feature verification

www.renishaw.com/sprint



#renishaw



+44 (0) 1453 524 524



uk@renishaw.com

© 2024 Renishaw plc. All rights reserved. RENISHAW® and the probe symbol are registered trade marks of Renishaw plc. Renishaw product names, designations and the mark 'apply innovation' are trade marks of Renishaw plc or its subsidiaries. Other brand, product or company names are trade marks of their respective owners. Renishaw plc. Registered in England and Wales. Company no: 1106260. Registered office: New Mills, Wotton-under-Edge, Glos, GL12 8JR, UK.

WHILE CONSIDERABLE EFFORT WAS MADE TO VERIFY THE ACCURACY OF THIS DOCUMENT AT PUBLICATION, ALL WARRANTIES, CONDITIONS, REPRESENTATIONS AND LIABILITY, HOWSOEVER ARISING, ARE EXCLUDED TO THE EXTENT PERMITTED BY LAW.

Part no.: H-2000-3652-01-A