

Simplifying robotic automation

Renishaw's range of industrial automation products and software

RCS product series

Toolkit products

Portable tools for robotic maintenance engineers

RCS toolkit products assist a wide range of robot-related roles in day-to-day operation. Whilst servicing your robot, engineers can run tests on path performance, backlash and joint offsets.

Engineers can report issues before they become a problem. This enables you to schedule robot maintenance in advance to avoid unplanned downtime.

Save time and money with RCS toolkit products



Faster deployment speed

Set up robot cells faster than traditional pin-to-pin methods.



Monitor robot performance

Reduce unplanned downtime with regular health-check testing.



In-field robot mastering and recovery

Master your robot on-site to account for offsets in its joints. Recover the master position after maintenance or collisions to avoid reteaching robot programs.



Standardise processes

With step-by-step tests in RCS Software Suite, results are standardised no matter who performs them.



RCS L-90

A single ballbar kit to improve robot accuracy, increase deployment speed and monitor robot health.

With RCS L-90, set up tool and part frames and conduct robot diagnostic tests.



RCS T-90

A tripod configuration of three ballbars. The system is purchased as an add-on to the RCS L-90 kit.

With RCS T-90, conduct comprehensive step-by-step tests. Capture critical diagnostic information about your robot.

“ RCS T-90 represents an immeasurable quality of life improvement for TMF, and we can't wait to apply the same improvement to our 15 other weld robots.

TMF (USA) ”

RCS P-series

Integrated probing for robot cells

Permanently install probing in your robot cell to optimise your industrial automation. Enable robotic machining with spindle calibration or allow robot auto-recovery by running a simple routine to prevent the time needed to retool.

How RCS P-series can help you



Quick and reliable frame set-up

Cut out time-consuming and error-prone manual frame set-up.



Improve robot system accuracy

With integrated probing, be sure of tool and part locations relative to your robot.



Automatic cell recovery

After interruptions, run set-up routines to recover your cell without the need for retooling.



Calibrate spindle cutting tools

Locate tool frames of robot-mounted spindles in five degrees of freedom.



Choose your perfect probing option

Probing kits are available for hard-wired and wireless options. Renishaw's extensive catalogue of probes offers radio and optical technologies. Coupled with a tool setter, the full metrology loop can be set in cell.



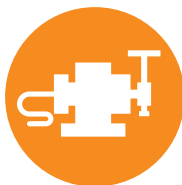
Hard-wired



Radio



Optical



Tool setter

RCS Software Suite

Guided step-by-step tests

Set up your robot cell or conduct regular health-check tests with RCS toolkit products.

RCS Software Suite works alongside RCS products to guide you through processes one step at a time. Any operator can complete tests, which output clear and traceable results.

Complex alignments made easy

Locate tool and part frames with any combination of geometric features. Use CAD files or nominal information to generate alignment programs in RCS Software Suite. Execute your programs with an RCS P-series probing solution to set your new frames.

“ At One-Off Robotics, precise calibration is crucial to our business, which is why we were delighted to work with Renishaw to help bring this technology to robotic fabrication. ”
One-Off Robotics (USA)



Applying innovation since 1973

Renishaw is one of the world's leading engineering and scientific technology companies, with expertise in precision measurement and healthcare.

Our worldwide network of subsidiary companies and distributors provides dedicated global customer support, wherever you are.

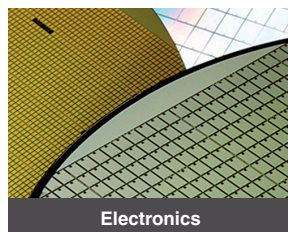
Our principal markets include:



Aerospace



Automotive



Electronics



Energy



Heavy industry



Medical and healthcare



Precision manufacturing



Scientific

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