

MODUS™ IM Equator software



MODUS™ IM intelligent metrology software

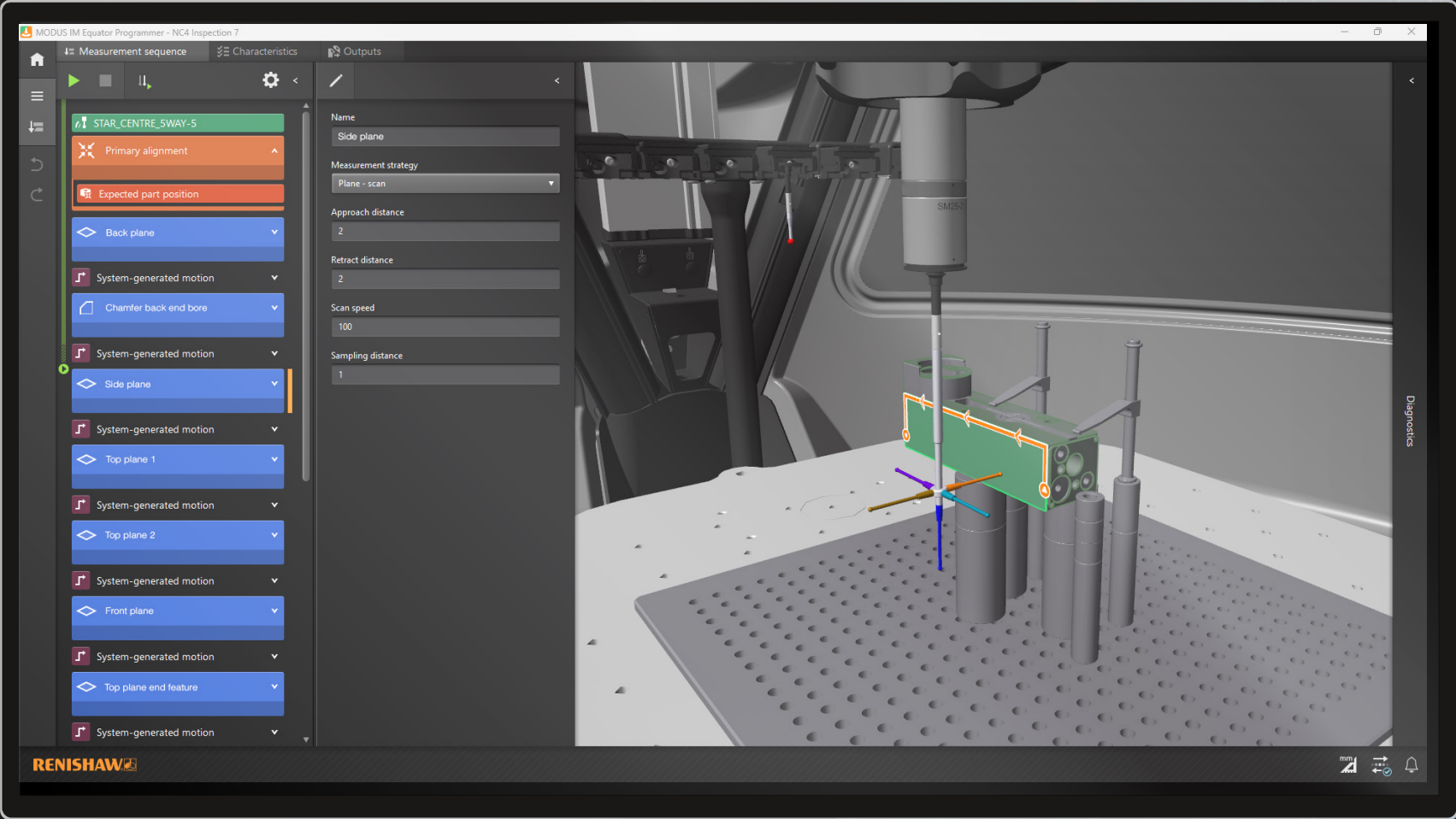
Put the power of Renishaw in your hands

Renishaw's MODUS™ IM software represents a step-change in intelligent metrology, with our 50 years of experience built in.

Take control of your entire process

MODUS™ IM Equator makes it easy to create inspection programs directly from CAD — no metrology experience needed. Its visual interface lets you select features to measure and automatically ensures collision-free motion and best-practice settings.

MODUS IM Equator software integrates with Renishaw Central to enhance shop floor process monitoring. Intelligent Process Control (IPC) software automatically updates tool offsets and machine variables based on your characteristics.



If you produce a high variety of machined parts, MODUS™ IM Equator programmer software allows you to easily create individual inspection programs for each part.

The MODUS IM platform delivers clear process insights and detailed, characteristics-based reports, so you can track part quality across your factory, even with complex high-volume workflows and limited resources.

MODUS IM Equator software enhances your shop floor productivity, throughput and yield by reducing the time taken to execute tasks and improving reproducibility.

Optimised solutions for Equator-X™ 500 dual-method gauging systems

The MODUS™ IM Equator software is meticulously crafted focus on user experience.

Simple programming

Node-based measurement sequence for easy program viewing and navigation.

Automatic collision-free measurement

Automated measurement path planning with feature and collision avoidance.

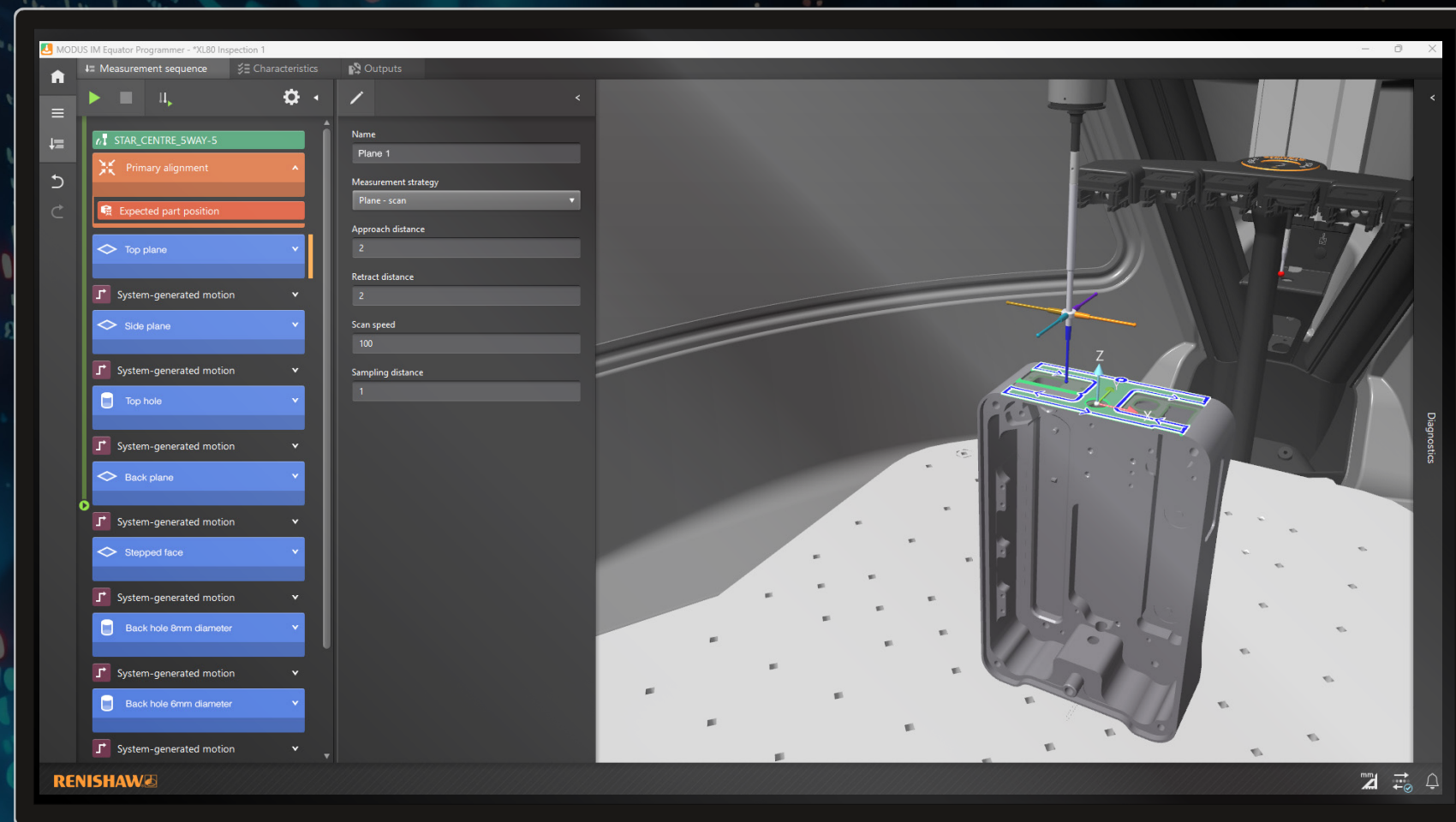
Real-time program feedback

Metrology diagnostics to help create robust measurement programs.

Characteristics-driven programming using tolerance frame creation

Intelligent characteristics mean that certain filters are only allowed if data density meets specific standards. Default ISO filters are applied using ISO and AUKOM standards.

Information is provided to the programmer to ensure the captured data is sufficient for the standards to be applied.



Renishaw experience built-in

Best practice values for speed, offsets, point spacing are set as defaults.

Parallel processing

A multi-threaded framework for background planning and evaluation reduces programming and execution time.

Industry standard output formats

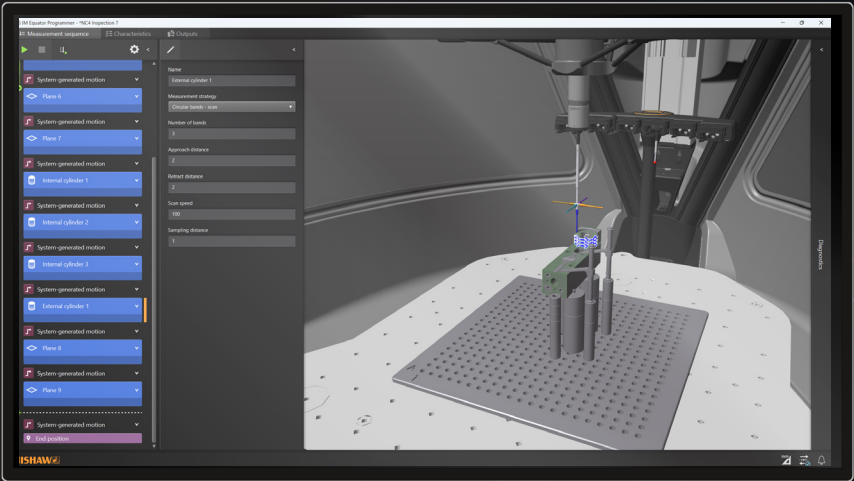
Export data to different formats including QIF and CSV. Output to Renishaw Central delivers actionable insights into manufacturing performance.

One product; many applications

Integrating a comprehensive range of applications (MODUS™ IM Programmer, MODUS™ IM Environment Manager, MODUS™ IM Operator, MODUS™ IM CHART and Renishaw Central) on a unified platform, MODUS™ IM Equator software delivers a cohesive experience across all applications.

MODUS™ IM Equator Programmer

The MODUS™ IM Equator Programmer application allows you to program and run inspections for prismatic parts using the Equator-X™ dual-method gauging system, in either Absolute or Compare mode.



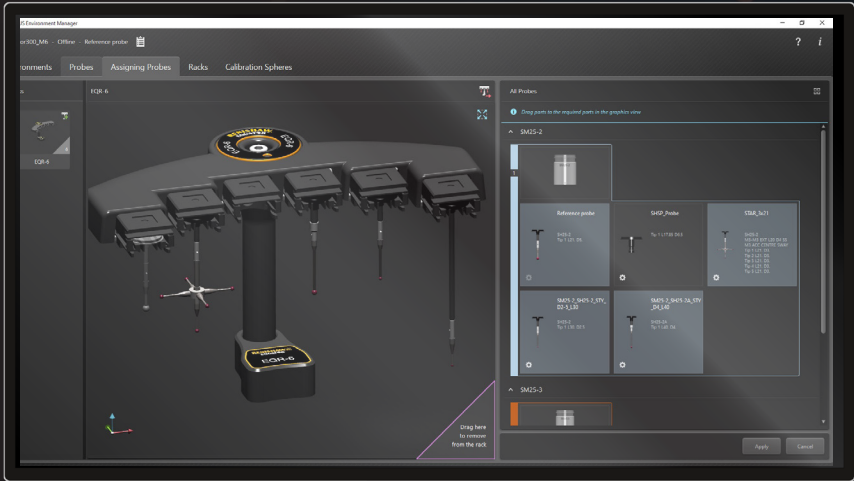
MODUS™ IM Operator

The MODUS™ IM Operator application provides an interface for operators to run programs on the shop floor. The interface links applications together, allowing users to run programs and view device data such as remaining run-time, current measurement results and pass/fail status of the previous 10 runs.



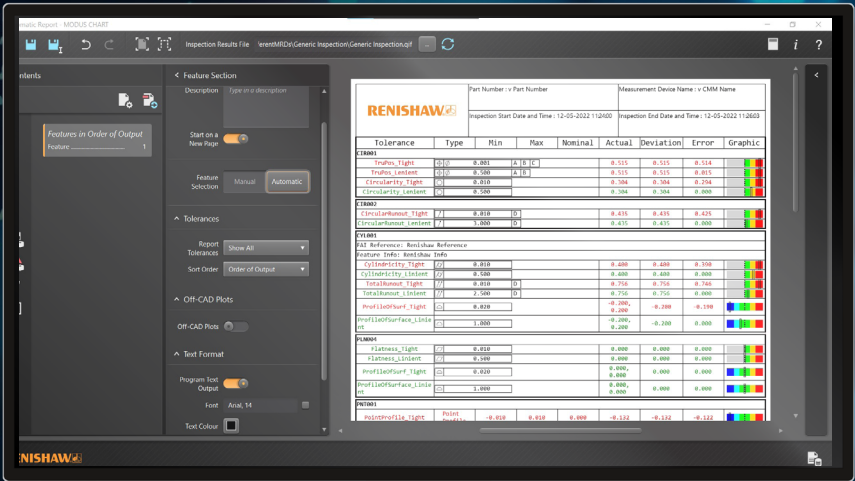
MODUS™ IM Environment Manager

All measurement machines require a digital twin to generate measurement programs and manage tool re-qualification. This digital twin environment contains the available measurement probe configurations, rack storage arrangements, calibration artefacts and other key machine information.



MODUS™ IM CHART

The MODUS™ IM CHART application creates Adobe® PDF reports for measurement results. All standard results tables and form plots are available, along with unique capability to superimpose plots onto a CAD model. This removes the need to interpret which feature certain results are referring to, reducing manual effort and error. Inspection results can be interrogated in detail on the CAD model post-inspection.



Renishaw Central: Unlock the power of data-driven manufacturing

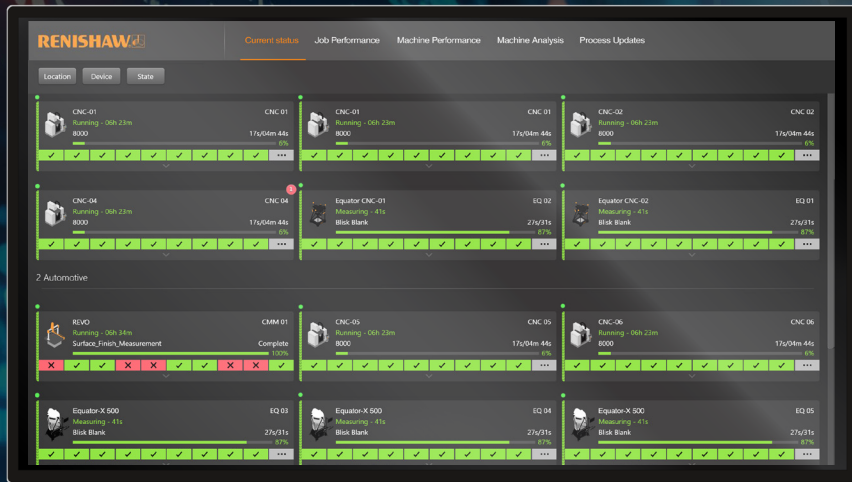
MODUS™ IM Equator software also includes Renishaw Central; a smart manufacturing data platform that collects and presents accurate, actionable process and metrology data.

Today, factories are collecting and processing more data than ever before. But only those with access to the right data, at the right time, can take real advantage of the smart factory.

The result is a highly efficient and productive factory, with optimised processes, reduced downtime, minimised waste, and reduced costs.

Current status

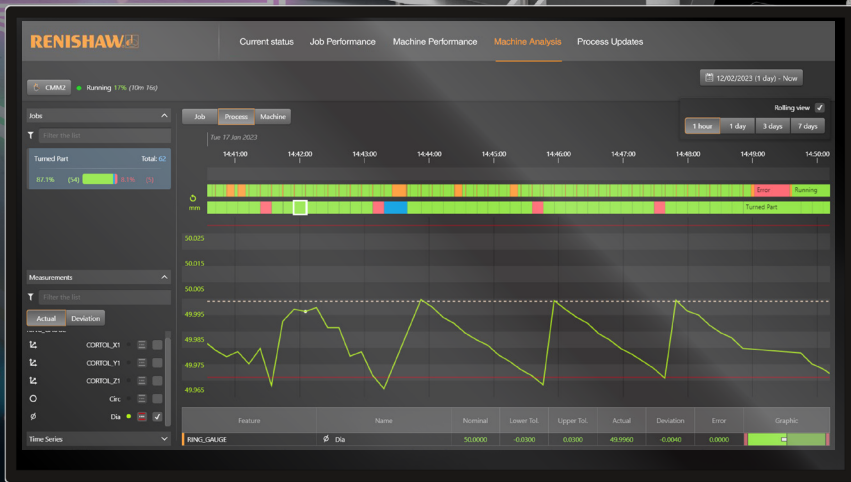
A top-level overview covering the status, alerts and outcomes of recently run jobs.



Machine analysis

Access and compare feature measurement data from individual jobs in powerful visual display

Regularly monitoring machine stoppages and errors helps streamline the production process and progress towards 'lights-out machining'.



Performance

Quickly analyse outcomes of all jobs and apply filters like pass/fail, count/percentage, total jobs, and cycle time to focus on areas of interest or concern.

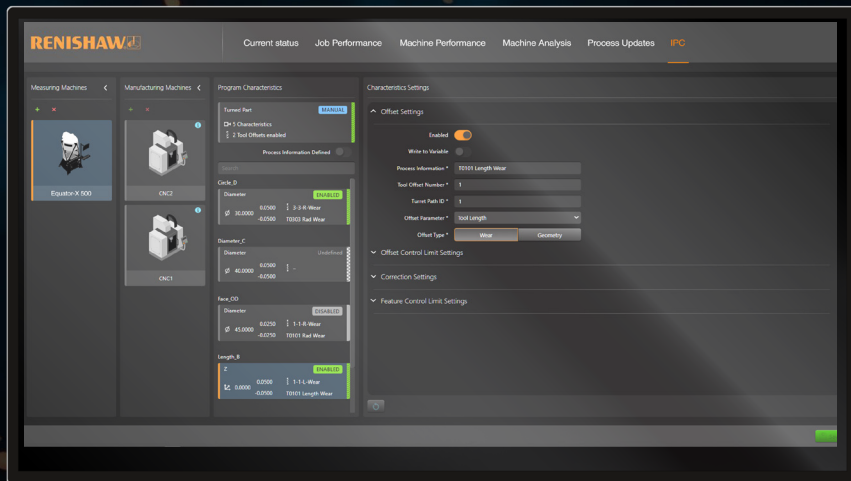
You can also see an overview of completed jobs highlighting machine performance metrics, such as utilisation and any errors occurring during that period.



Intelligent Process Control (IPC)

IPC enables machine shops to leverage the data collected in Renishaw Central, and optimise manufacturing by clearly linking measurement processes to corresponding manufacturing processes.

Renishaw Central helps you monitor the active process updates managed by IPC. You can identify updated machines, and the extent and timing of applied changes.

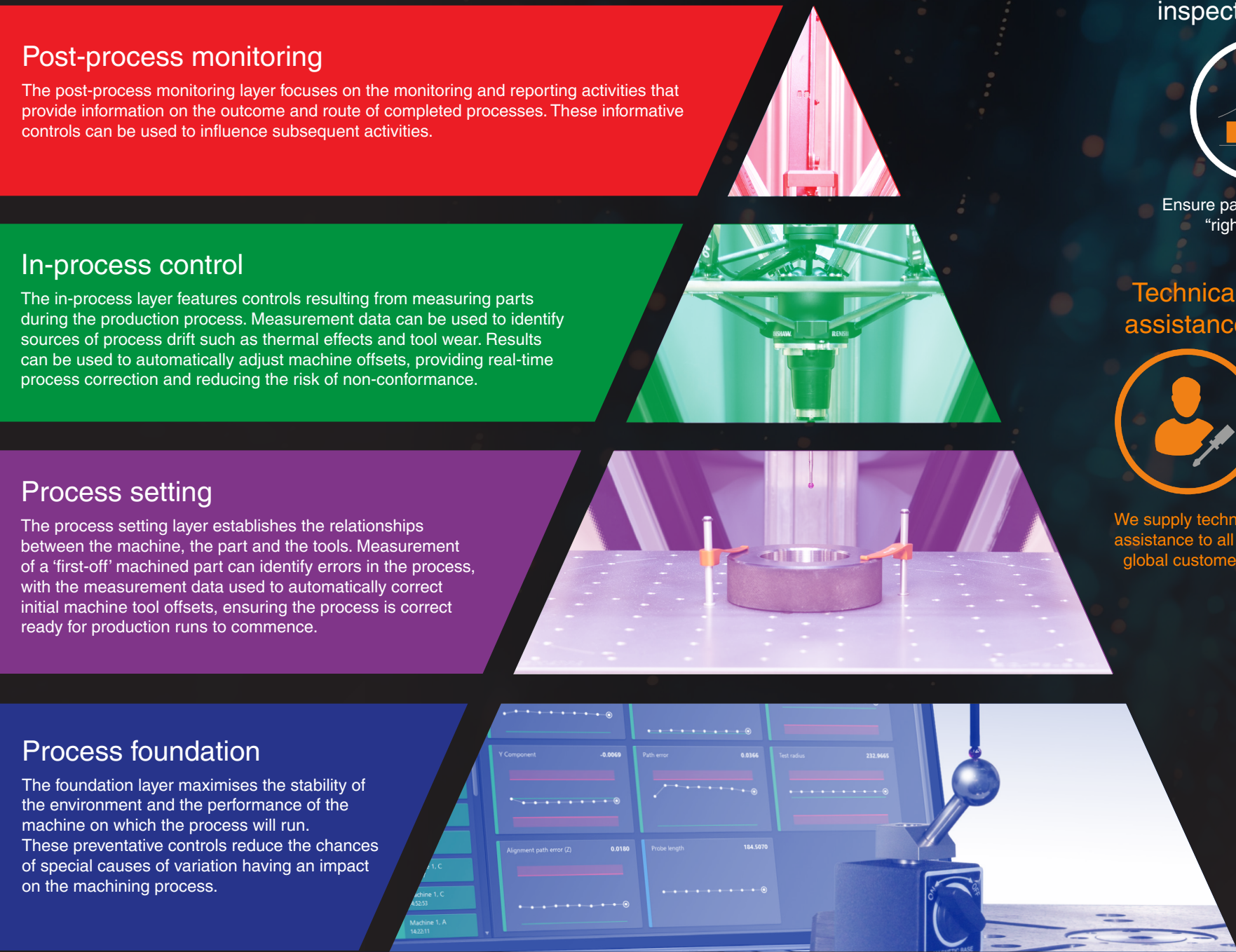


The Productive Process Pyramid™

Our data-driven approach to process control

At Renishaw, we've applied our own innovative approach to eliminating or controlling sources of variation in our manufacturing and we use our own products to address these common challenges. We've shared our learning with our customers who are now consistently producing performance parts, manufactured to tighter tolerances and with minimal human intervention.

For further details, visit www.renishaw.com/processcontrol.



The Renishaw advantage

At Renishaw, we have an excellent reputation for delivering strong support to our customers through a global network of service and support offices.

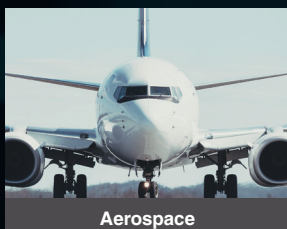


Applying innovation since 1973

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.

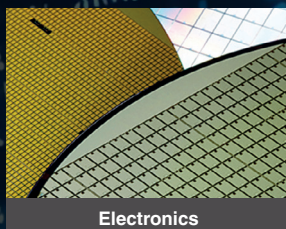
Our principal markets include:



Aerospace



Automotive



Electronics



Energy



Heavy industry



Medical and healthcare



Precision manufacturing



Scientific

www.renishaw.com/modus-im-equator



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