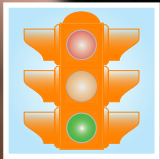


# Productivity+™ Active Editor Pro probe software for machine tools



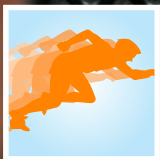
## Enabling

enables intelligent machining and 'green button' production processes



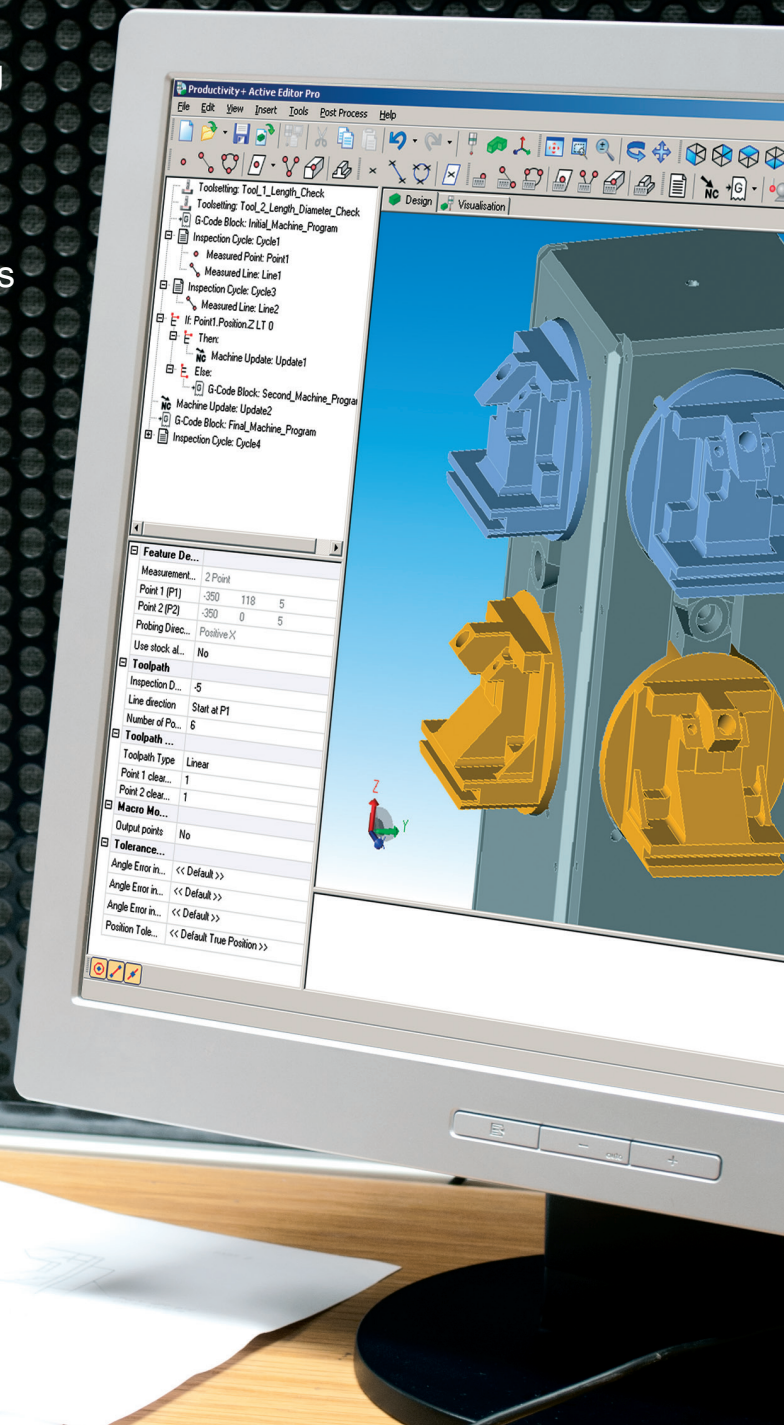
## Flexible

for a wide range of probing applications



## Dynamic

a faster way to add process control





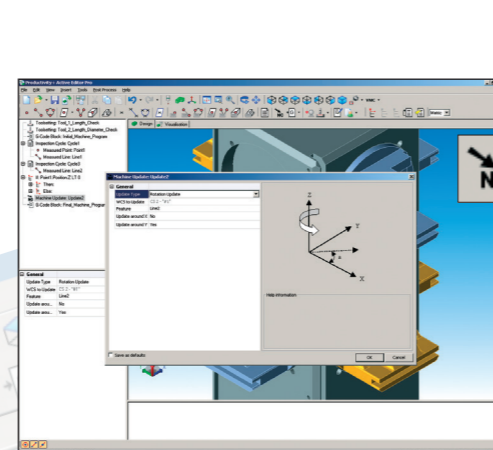
## Take probing beyond the program, into the process

### Update

The 'update' operation forms the foundation of the power and flexibility of Productivity+.

Measurements are all made with a purpose in mind; controlling the machining process as it happens.

WCS creation, tool diameter setting and machine variable updates all help to influence the final outcome of a machining process.

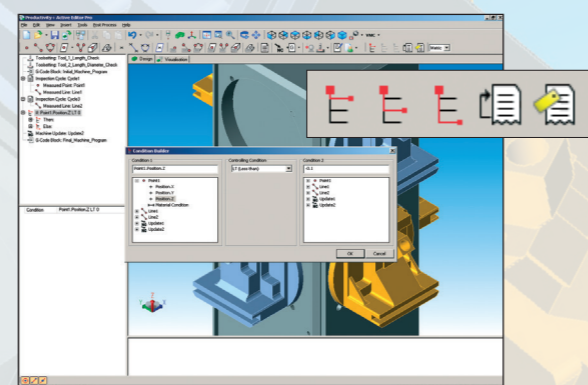


- WCS and tool dimension updates
- Multi-axis measurement
- Basic and constructed feature measures

### Adapt

Intelligent processes aid manufacture and assure product conformity. Productivity+ lets your process adapt by using If...Then logic, flow control, and advanced functions such as custom macros.

Once programs are post processed, Productivity+ programs run entirely on the controller, avoiding comms problems and eliminating the need for operator intervention.

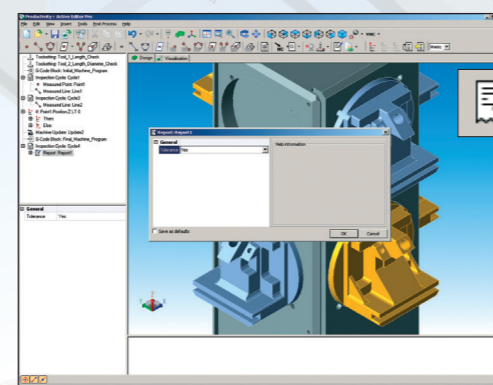


- Condition builder - (If...Then, Else If, Else)
- Intelligent processes
- Logical flow control

### Inform

Informative quality data is essential to fully understand the robustness of your process. Productivity+ produces a simple, consistent report format for all CNC types, suitable for analysis using a variety of standard software packages.

Productivity+ reporting includes details of process decisions as well as feature dimensions, providing a comprehensive set of data which can be used to explore a wide range of variables.



- Report on features and updates
- Include tolerances
- Export for external analysis

## Key features, functionality and applications

### Features

Select directly from a solid model or manually program via dialogs to inspect:

- 3D surfaces (using multiple point features)
- 2D line
- Circle/arc
- 2D plane
- 2D corner
- 3D corner
- Web/pocket

Use positional data from previously inspected features to create additional 'virtual' features:

- Constructed point
- Constructed line
- Constructed circle
- Constructed plane

On-screen simulation of finished probe routines incorporating collision detection

### Functionality

- New session wizard, including solid model and G-code import options
- Dynamic help, instructional wizards and dialogs
- Probe calibration routines
- Integrate tool setting cycles
- Support for a range of multi-axis machine tools
- Embed macro programs and custom calculations
- Perform automated WCS, rotation and tool update operations
- Logic statements for automatic control and adaptation of a cutting program
- Feature parameter reporting including Pass/Fail tolerance check
- Database of Renishaw probes; custom probe/stylus combination tool

### Applications

- Part identification
- Intelligent program selection
- Part presence checking
- Job set-up
- Tool setting
- Tool identification
- Determine machine capability
- Clearance check
- Variable based programming
- Path optimisation
- Cutter parameter update
- Dynamic re-machining
- Thermal correction (machine drift and workpiece expansion)
- Tool condition monitoring
- In-process datum setting
- Process reporting
- Critical feature reporting

## Supported model formats, controllers and languages

### Solid model formats

#### Standard

- IGES
- Parasolid
- STEP

#### Optional

- ACIS
- AutoDesk Inventor
- CATIA
- Pro/ENGINEER
- SolidWorks
- Unigraphics/NX

### Controller types

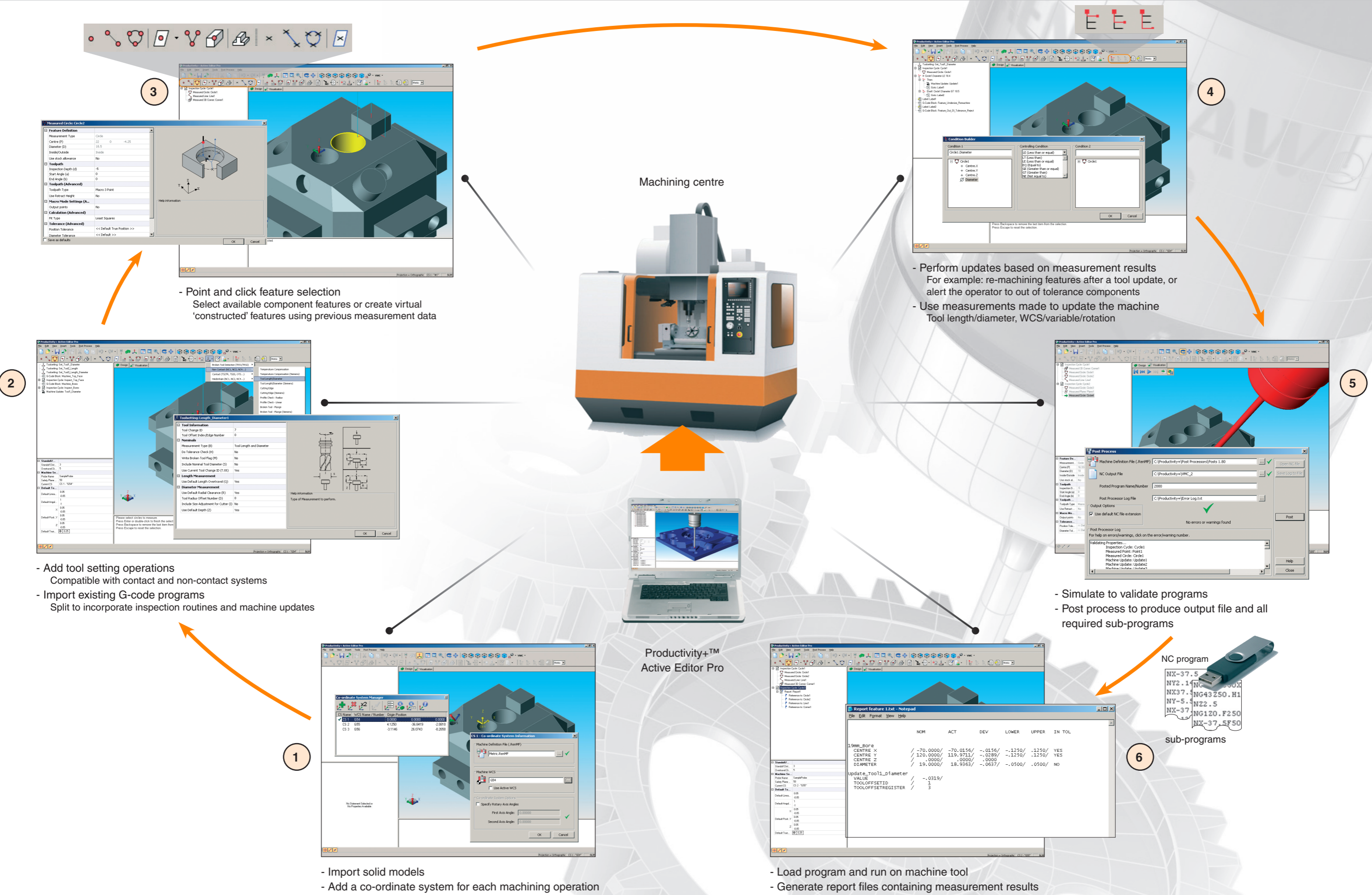
- Brother: 32B
- Fanuc: 10-15i; 16-21i; 30-32i; 0M; 6M; 15M; 16-21M
- Haas
- Heidenhain: i530; 426/430
- Makino: Prof5
- Mazak: M32; M Plus; Matrix; Fusion 640M
- Mitsubishi Meldas: M3; M310; M320; M335; M60/M500/M600/M700 series
- Mori Seiki: MSC-500; MSC-800
- Okuma: OSP200
- Siemens: 810D/840D

### Available languages

- English
- Czech
- French
- German
- Italian
- Japanese
- Korean
- Simplified Chinese
- Spanish
- Traditional Chinese



# The Productivity+™ Active Editor Pro programming cycle



## About Renishaw

Renishaw is an established world leader in engineering technologies, with a strong history of innovation in product development and manufacturing. Since its formation in 1973, the company has supplied leading-edge products that increase process productivity, improve product quality and deliver cost-effective automation solutions.

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

### Products include:

- Additive manufacturing and vacuum casting technologies for design, prototyping, and production applications
- Dental CAD/CAM scanning systems and supply of dental structures
- Encoder systems for high-accuracy linear, angle and rotary position feedback
- Fixturing for CMMs (co-ordinate measuring machines) and gauging systems
- Gauging systems for comparative measurement of machined parts
- High-speed laser measurement and surveying systems for use in extreme environments
- Laser and ballbar systems for performance measurement and calibration of machines
- Medical devices for neurosurgical applications
- Probe systems and software for job set-up, tool setting and inspection on CNC machine tools
- Raman spectroscopy systems for non-destructive material analysis
- Sensor systems and software for measurement on CMMs
- Styli for CMM and machine tool probe applications

For worldwide contact details, visit [www.renishaw.com/contact](http://www.renishaw.com/contact)



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