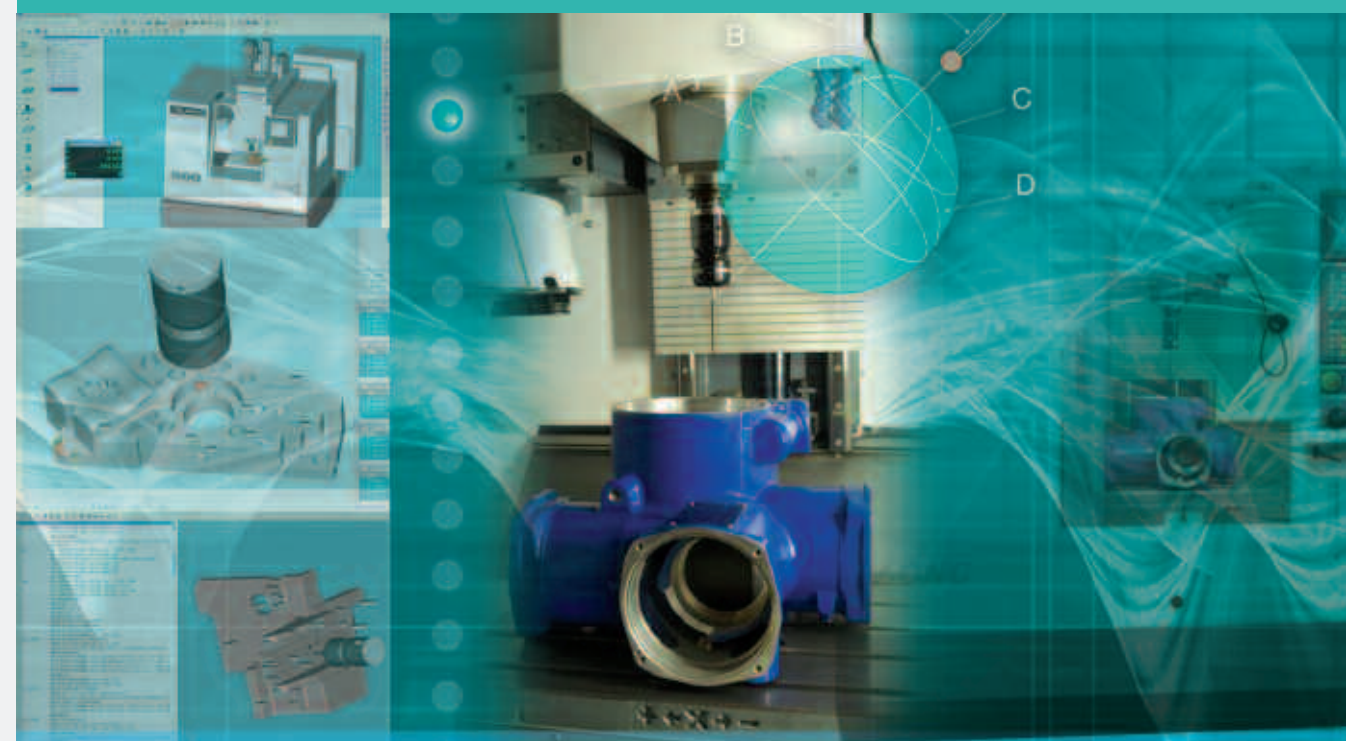




To learn more about enterprise metrology solutions (EMS) and PC-DMIS products visit [www.pcdmis-ems.com](http://www.pcdmis-ems.com).

To learn more about Wilcox Associates, the developers of PC-DMIS, visit [www.wilcoxassoc.com](http://www.wilcoxassoc.com).

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nc



## On-Machine 3-Dimensional Validation

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# On-Machine

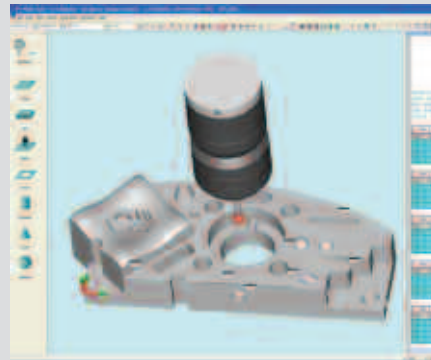
## 3-Dimensional Metrology

**PC-DMIS NC®** brings the proven technologies of PC-DMIS, the world's most advanced CMM software, to the work of on-machine part setup and validation. Now, manufacturers are taking full advantage of their CNC probes by making on-machine metrology an integral part of their advanced manufacturing and quality assurance systems.

With PC-DMIS NC, it is no longer necessary to struggle with the difficulties and limitations of cryptic macro languages, and it is no longer necessary to deal with the restricted capacities of their algorithms. Users develop inspection programs working in a sophisticated and easy-to-use programming environment and employ a suite of PtB certified algorithms to evaluate measurement data.

### CAM Software for CNC probing

Historically, machine tool probes, with their restricted functionality and limited macro languages, have been of minimal use for all but the simplest applications. Now, with PC-DMIS NC you have access to all of the programming and data management capabilities of a full featured CMM measurement package.



Develop programs off-line using a CAD model

With PC-DMIS NC's programming and information management functions, you can:

- Develop, test and debug NC inspection routines on 2D and 3D CAD models. Because all of this work is done off-line, this process has zero impact on machine utilization.
- Download inspection routines to your NC controllers automatically.
- Build inspection paths in standard G and M formats. Operators do not have to learn a new language or a special measurement application.
- Collect and evaluate measurement data as it is generated without operator intervention. The resulting information goes where it needs to go in a format best suited to its intended audience.

### Feedback for process control

PC-DMIS NC monitors your operations while the parts are still on the machine, making real time evaluation a reality. It compares measured features to the CAD model for fast and accurate analysis. And by using the built-in SPC module, tracking and evaluating any of your processes over time is effortless.



Monitor results with built-in SPC software

Making PC-DMIS NC part of your manufacturing processes lets you:

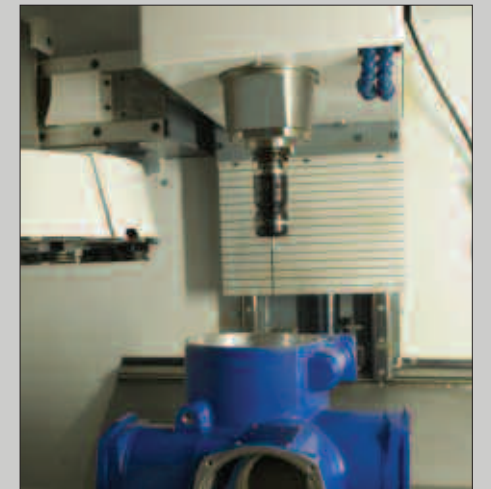
- Make quick checks during setup and eliminate most programming and setup faults before they become expensive mistakes. Prevent human error from letting scrap and rework cost time and money.
- Eliminate the delays and errors inherent in manual inspection
- Check work offsets by measuring selected part geometry, then fine tune and automatically update them.
- Align and measure the most complex contoured parts and tooling easily.
- Evaluate parts on the machine during machining. Get a full understanding of your process, its strengths and its weaknesses.
- Check measurement results directly against the CAD model using a powerful 3D analytical engine and advanced fitting algorithms
- Track and automatically modify cutting programs to compensate for changes in tool characteristics

### Eliminating Scrap through Enterprise Metrology Solutions

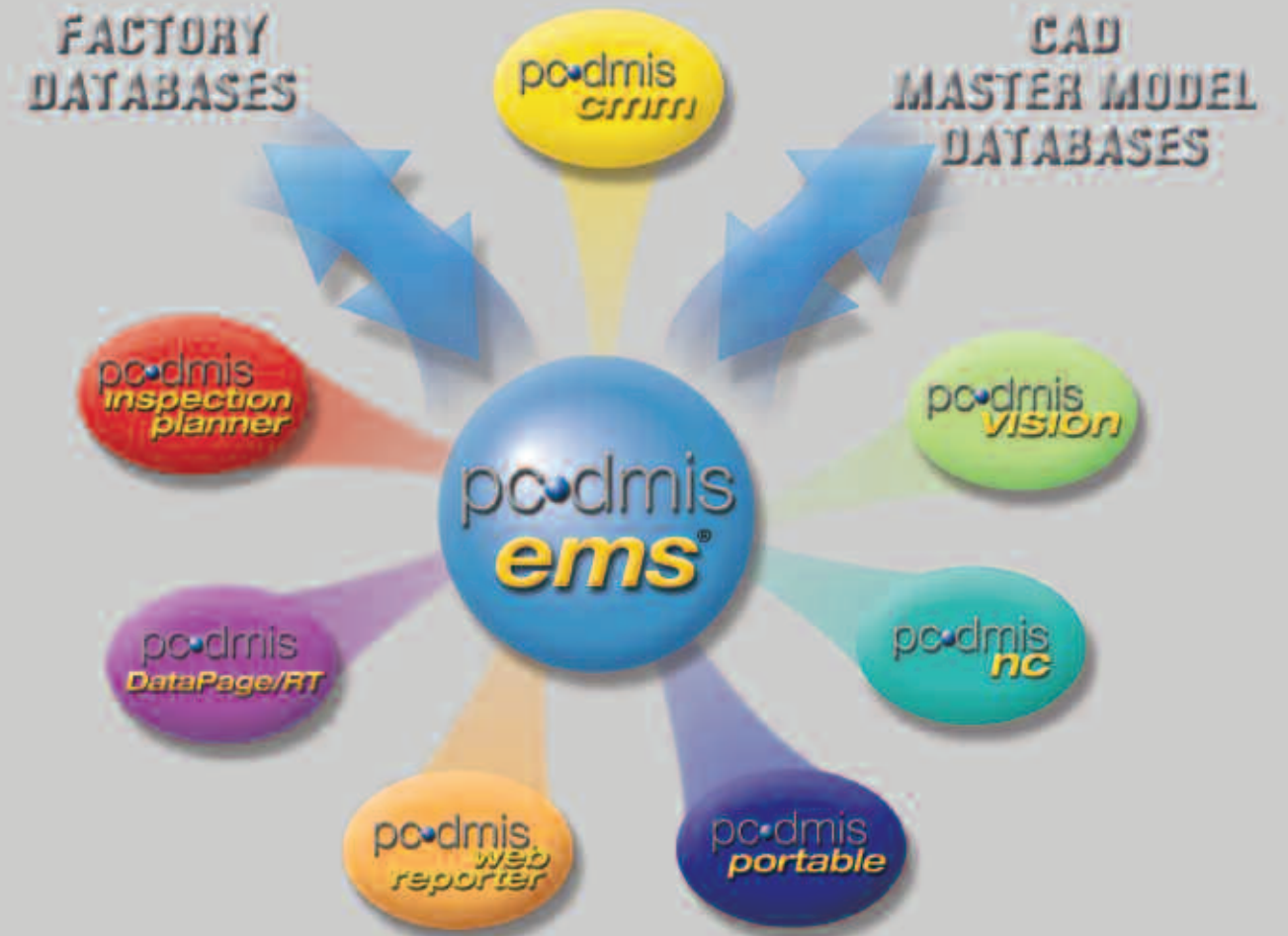
Lean manufacturing is all about eliminating waste in all forms, and PC-DMIS NC is all about lean manufacturing. It brings the world's leading measurement technology directly to the shop floor. The CNC machine becomes an integral part of a metrology system dedicated to eliminating scrap, minimizing rework, and saving money. In today's competitive environment, anything less is not enough.

### Part of a Bigger Picture

The PC-DMIS EMS product suite includes software for inspection on a range of measurement machines and devices, data analysis, reporting and publication.



Streamline setups and eliminate waste with PC-DMIS NC



PC-DMIS seamlessly links design, manufacturing and metrology operations