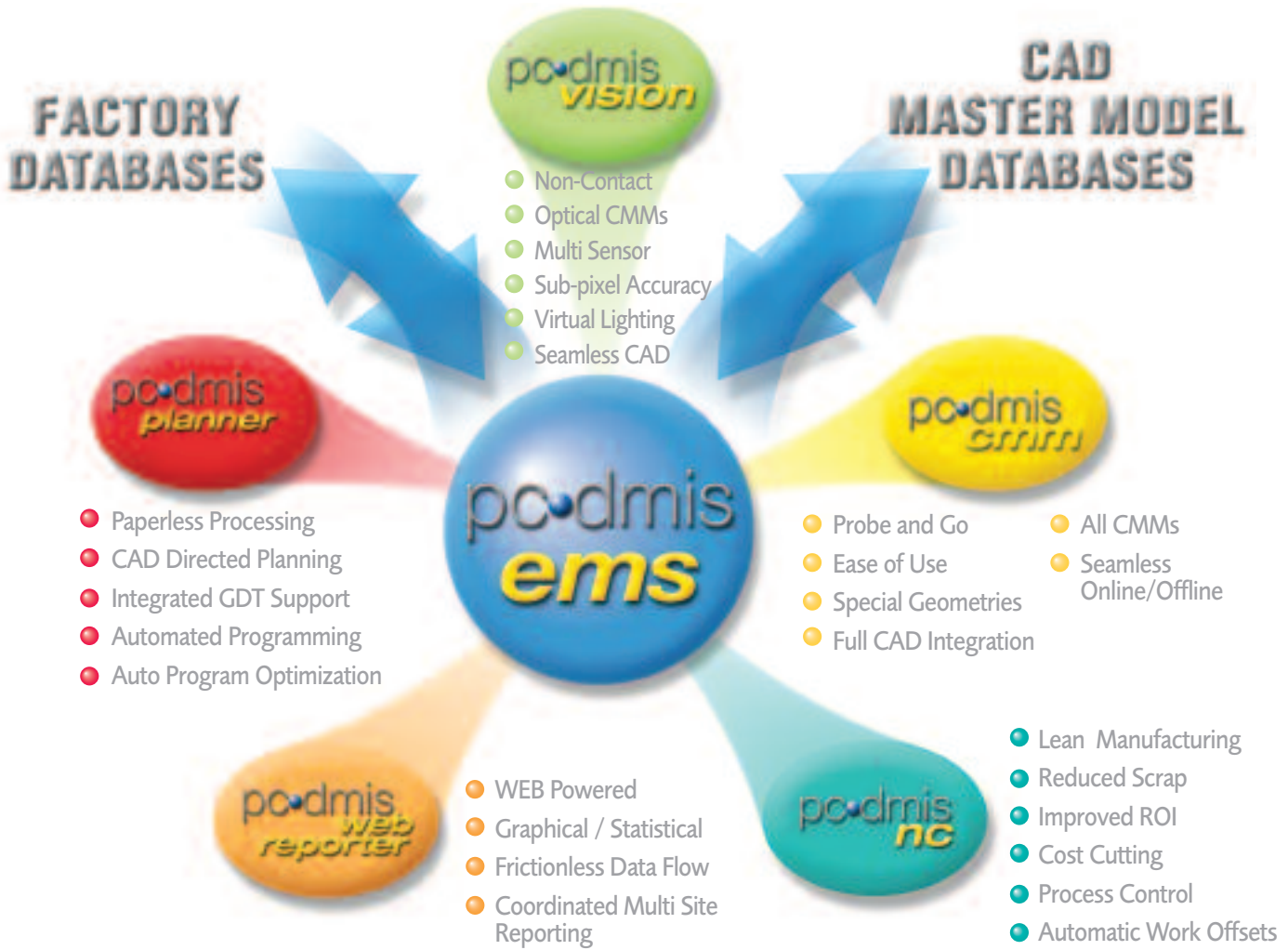


# Fully Paperless Inspection - Seamlessly Transform Design Intent into Inspection Routines



*enterprise metrology solutions*

## Planning for Inspection

The need for inspection is built into the manufacturing process. The problem is that for most organizations the process of translating the design intent of a CAD model into a set of inspection instructions for measuring a real part isn't built into anything. It's usually a series of difficult and time consuming operations with numerous opportunities for error.

PC-DMIS Planner, part of Hexagon Metrology's Enterprise Metrology Solutions (EMS), puts an end to these problems. It provides a direct, seamless link between the CAD station and the measurement equipment.

## Building Inspection Requirements into CAD models

As a stand-alone application that works with your CAD data directly, PC-DMIS Planner lets you use your CAD model to define measurement requirements and then transfer those requirements directly to your PC-DMIS measurement software for automatic part program creation. The process is direct, and there is no chance of losing or misconstruing design intent.

With PC-DMIS Planner on your CAD system you can:

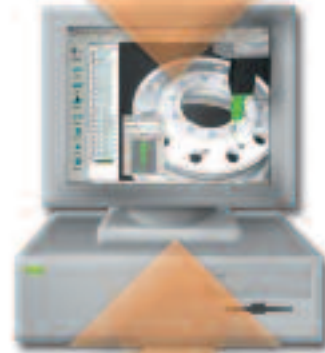
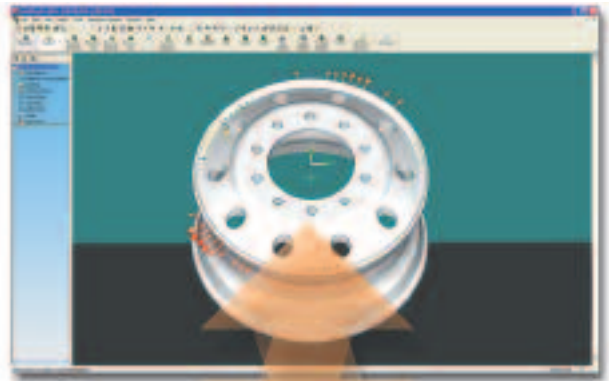
- Create a virtual, marked-up blueprint of your parts, defining each feature to be inspected.
- Define datums, dimensions and the relationships among features.
- Combine inspection requirements and CAD models into a single CAD/Inspection entity. Changes in the model automatically generate changes in the inspection routines.
- Manage the dimensioning and tolerancing of parts from your CAD system, eliminating a major source of errors.
- Quickly build inspection programs for different steps in the manufacturing process for a particular part. Doing this on a CMM can take hours and result in numerous mistakes.

## Increase CMM utilization

CMMs are only useful when they are measuring parts. Time spent developing and testing part programs is wasted time. PC-DMIS Planner streamlines the process by delivering detailed measurement plans to the CMM.

Using PC-DMIS Planner with PC-DMIS lets you:

- Eliminate version control problems. Because PC-DMIS Planner files always refer to the latest version of the appropriate CAD file, there is no danger of a mismatch between the CAD file and the part program.
- Automatically generate part programs from PC-DMIS Planner files. The time needed to build a part program is a fraction of what it was.



- Eradicate or minimize programming errors. CMM programmers or operators no longer need to manually input reams of information into their inspection routines.



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\*PC-DMIS Planner is compatible with SolidWorks, Unigraphics, CATIA, I-DEAS, Pro/Engineer