

How Do You Measure Your Design Quality?



PrescientQA®

As more and more of a product's development is done digitally, companies are discovering that the quality of their product model plays a key role in, and is directly linked to, the quality of the end product. Now product quality concerns that were once focused on the manufacturing process are being aimed earlier in the design cycle - at the engineering product created as a digital model.

Companies are paying attention to the early detection, preferably prevention, of design errors that affect the quality of their design engineering product and are seeing an immediate impact on cycle time and cost

A new level of quality control.

PrescientQA Enterprise Solutions is an integrated software series that detects, assesses, corrects and can even prevent product development problems caused by modeling practices that are either inaccurate, incomplete, inconsistent or all three.

These problems, generally undetected, account for about 45% of the engineering change orders in a typical organisation. Companies have discovered that identifying problems early in the design process substantially reduces product development cycle time, rework and cost.

A proven track record with Prescient® Technology.

The award-winning PrescientQA quality assurance software has been correcting errors, minimizing engineering change orders and revolutionising quality assurance processes at several of the world's largest aircraft and automobile manufacturers. PrescientQA enterprise solutions are used around the world at large and small aerospace, automotive, electronics, and other discrete manufacturers with complex design manufacturing and assembly processes.

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A new era in dynamic quality control.

As an interactive CAD model quality assurance tool, PrescientQA supports ISO 9000 and Six Sigma initiatives, working within the design program to ensure that the models:

- ▶ Meet your organisation quality standards.
- ▶ Are re-useable by other CAD designers.
- ▶ Incorporate data requirements of downstream users.
- ▶ Can be used by analysis, manufacturing and rapid prototyping systems.
- ▶ Are prepared for PDM submission.

What are you really paying for quality now?

Nearly half of engineering changes are the result of design errors. The cost of correcting each error during the digital design stage is approximately \$3,500 industry-wide. When you look at the cost of correcting these errors the closer to production a product gets, it's not unusual to see increases of between 10 and 100 times the original \$3,500 (Figure 1). But most changes occur after the product has been released to manufacturing (Figure 2).

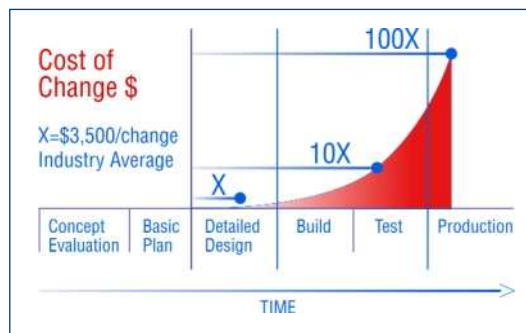


Figure 1

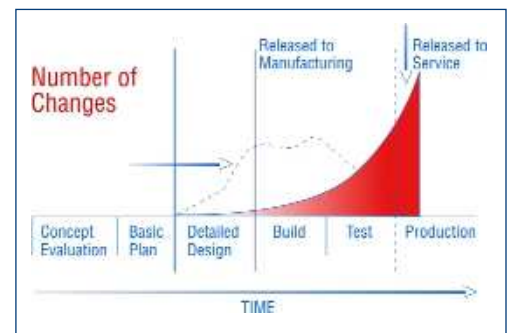


Figure 2

What costs \$3500 to correct in the digital product can cost millions to correct in the physical product.

Easy to jump start enterprise-wide.

PrescientQA gives you a head start on implementing best practices because it's so intuitive to use and flexible. Its extensible modeling standards can be customised to support diverse standards. But that just scratches the surface of what the complete solution offers.

- ▶ Consistency and accuracy of data: it operates from within using native CAD geometry and menus.
- ▶ Continuous learning: it provides hyperlinks to company-specific or online reference and training material.
- ▶ Quality metrics database: enables you to identify, quantify and track product quality across your entire organisation during all design phases.

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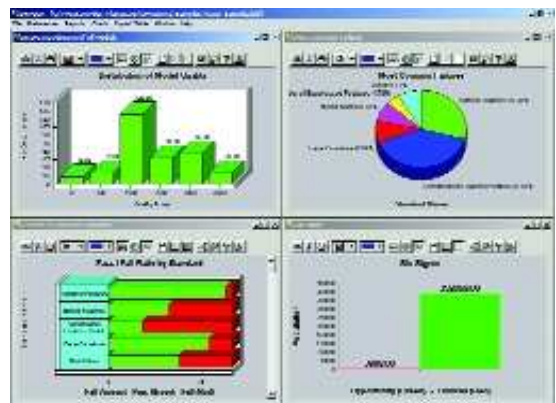
Maximise efficiency, minimize errors.

- ▶ Expedite design reviews by quantifying specific model quality defects and addressing the causes.
- ▶ Eliminate non-value-added rework and clean-up tasks by applying consistent design techniques.
- ▶ Ensure models have the correct syntax and naming conventions in order to avoid miscommunications.
- ▶ Ensure models are efficiently stored by eliminating unused or extraneous constructs, elements and other information.
- ▶ Ensure that dependencies and relationships between features are up-to-date and appropriate.

A dynamic way to measure and manage your engineering quality.

PrescientQA enables you to control the quality of your engineering process dynamically, providing management with a complete picture of how your process is working.

The information can be viewed on a company-wide, group or project basis. For the first time, management teams have a window into the quality of the engineering process from which they can maximise their engineering resources, assign training, review standards or institute corrective measures aimed at solving costly and time-consuming quality errors.



Configure it to meet your standards.

PrescientQA is inherently flexible, with an extensive array of engineering standards that can be configured to support the unique requirements of each organisation, project or group to establish quality characteristics and additional associated parameters for features, parts, assemblies and drawings.

Use it to learn continuously.

PrescientQA gives the individual end-user the ability to identify errors and learn how to avoid them in future models, which in turn helps them make better designs in the context of your organisation's design process.

Learn how to measure and control your design quality.

Contact us on the number below or visit our website for more information

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