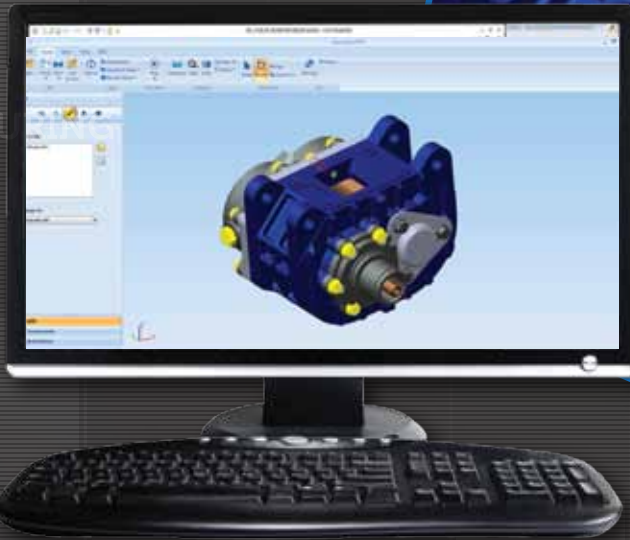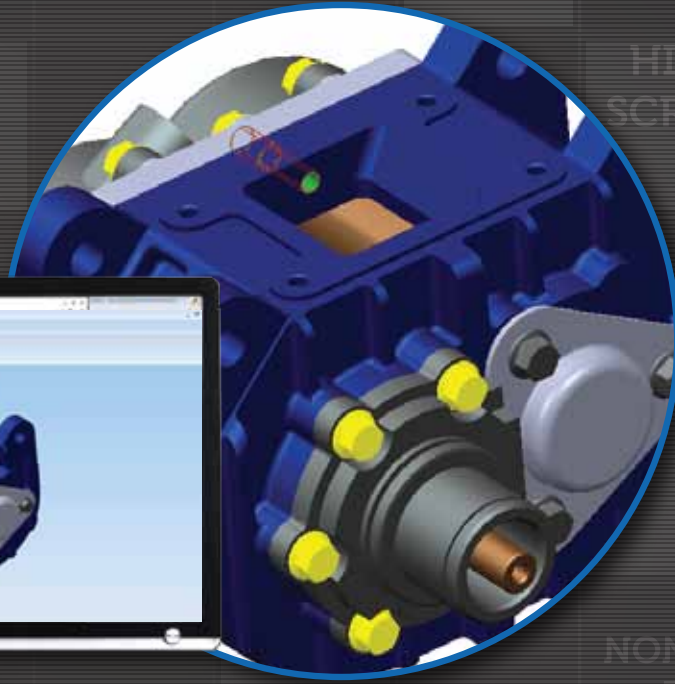# GeometricDFX™

An HCL Technologies Product

REWORK

REWORK SAVINGS
15%
AND MORE...

HIGH
SCRAP

HIGHER
MANUFACTURING
TIME

NON-STANDARD
FEATURES

NON-STANDARD
TOOLS

TIGHT
TOLERANCES

GET YOUR DESIGNS RIGHT THE FIRST TIME!

EARLY COST VISIBILITY WITH COST ADD-ON

On a global average, designers spend around 30% of their time in doing rework on product designs. Majority of the causes for this rework fall under the category of DFX (Design for X), which includes issues such as manufacturability, assembly, quality, serviceability, environment and so on. Typically, organizations carry out manual design reviews which are time consuming and error prone. Also, if the defect gets detected at later stage in the product development, the cost, time and effort required to correct it multiplies exponentially. Organizations look for ways and means to address these issues as early in the product development cycle as possible.

EASY AND POWERFUL DFMA SOFTWARE TO DRIVE MEASURABLE RESULTS FAST

Benefits

- Reduce rework – Improve productivity
- Shorten product development time
- Improve product design and quality
- Reduce scrap and wastage
- Capture expert knowledge and learnings

Right Design at Right Cost

More than 70% cost in design is allocated right at the design stage. Also the cost to extract defects i.e. issues like manufacturability are expensive to correct later during product development cycle.

- Quick cost estimate to design engineers
- Provides deep understanding to designers about cost drivers of the part
- Evaluate various part tradeoffs like features, material, manufacturing processes, etc to create optimum part design

Geometric DFX® is a design for manufacturability and assembly, DFMA software that facilitates the implementation of DfX methods and guidelines in a systematic manner in an organization and improves the design process

- Geometric DFX assists design engineers to validate 3D CAD parts and assemblies for various downstream issues related to manufacturing, cost, quality, supplier capability, assembly, serviceability and environment right at the design stage.
- Runs analysis on any CAD file formats such as CATIA®, Creo Parametric™, Inventor®, NX™, Soild Edge®, SOLIDWORKS® as well as neutral formats like STEP/IGES.
- Helps avoid expensive features in design which can increase cost and create issues in manufacturing, assembly and servicing
- Helps to improve productivity of the design process by capturing downstream requirements early thus reducing design rework, review time and leading to better quality.
- Knowledge-driven framework to capture global best practices and tribal knowledge within organization
- The 'Out of the Box' (OOTB) version comes prepackaged with 100+ rules that take into account downstream issues impacting part or assembly design.

Geometric DFX Success Story

"Celestica expertise is in design and engineering, electronics manufacturing and supply chain management services. Our suite of solutions spans the entire product lifecycle – from design, through to delivery and after-market support.

Geometric DFX solution helped us to improve productivity by almost 12% and helped us to identify quality issues earlier right during design phase."

Frank Wang-
ME Director Celestica

Hello, I'm from HCL's Engineering and R&D Services. We enable technology led organizations to go to market with innovative products and solutions. We partner with our customers in building world class products and creating associated solution delivery ecosystems to help bring market leadership. We develop engineering products, solutions and platforms across Aerospace and Defense, Automotive, Consumer Electronics, Software, Online, Industrial Manufacturing, Medical Devices, Networking & Telecom, Office Automation, Semiconductor and Servers & Storage for our customers.

For more details contact: dfmpro.marketing@geometricglobal.com
Visit our website: http://www.dfmpro.com

Contact us

America +1.480.367.0132   **Asia-Pacific** +91.22.6705.6880   **Europe** +31.629.514.707

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GEOMETRIC IS NOW A PART OF HCL TECHNOLOGIES