

# HCLSoftware

## Get Early Visibility into Manufacturability & Product Cost



**HCL DFMPPro**

### **Deliver High Quality Designs Faster at Lower Costs**

In today's time organizations spend millions of dollars on Engineering Change Orders (ECOs). A single ECO can cost up to \$30,000. A small investment using DFX at the design stage to address manufacturing and assembly requirements help save significant time to market.

HCL DFMPPro is an easy-to-use CAD-integrated Design-for-Manufacturing (DFM) software. It identifies & provides recommendations to resolve potential downstream manufacturing issues.

It helps reduce time consuming design iterations resulting into faster development of high-quality products.

## Product Design Challenges

Overwhelming engineering change orders (ECO / ECN)

Product cost escalations and depleting margins

Product launch delays

Dispersed organization knowledge



## HCL DFMPPro Benefits

Captures design issues early and reduce engineering rework

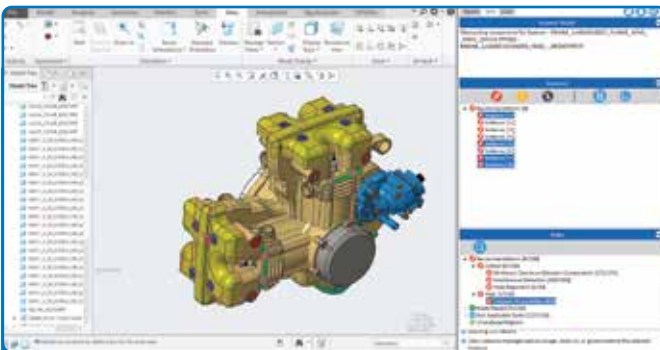
Understands opportunities for cost reduction right at design stage and save cost

Avoids late stage engineering changes and time-consuming rework

Captures best practices and bring in standardization in design review process

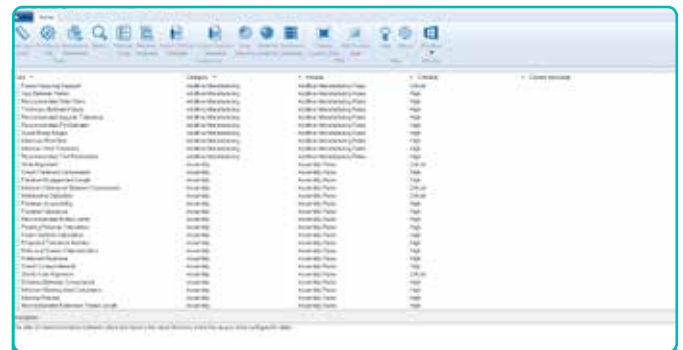


# Easy and Powerful DFM Software to Drive Measurable Results Fast



## Automates the DFM Review Process

- DFMPPro automates and formalizes the design review process
- Seamlessly integrated inside DS CATIA V5, PTC CREO Parametric™, Siemens NX™, and SOLIDWORKS®



## Rule Manager

- Selects and configures organization specific guidelines as design rules
- Brings standardization in design review process

## Industry Best Practices



Engineering best practices



Supplier capabilities



Standardization requirements

## Organization Specific Best Practices



Sourcing



Manufacturing



Service

## Enables Best Practice Knowledge Capture and Dissemination

- Customizable framework to capture in-house best practices, tribal knowledge and industry standards
- Facilitates continuous design improvements and knowledge retention of retiring workforce

## Enterprise Systems

PLM

ERP

MES

Others

Integration

Product Engineering

## DFMPPro Solution



3D model



Best Practices



Output

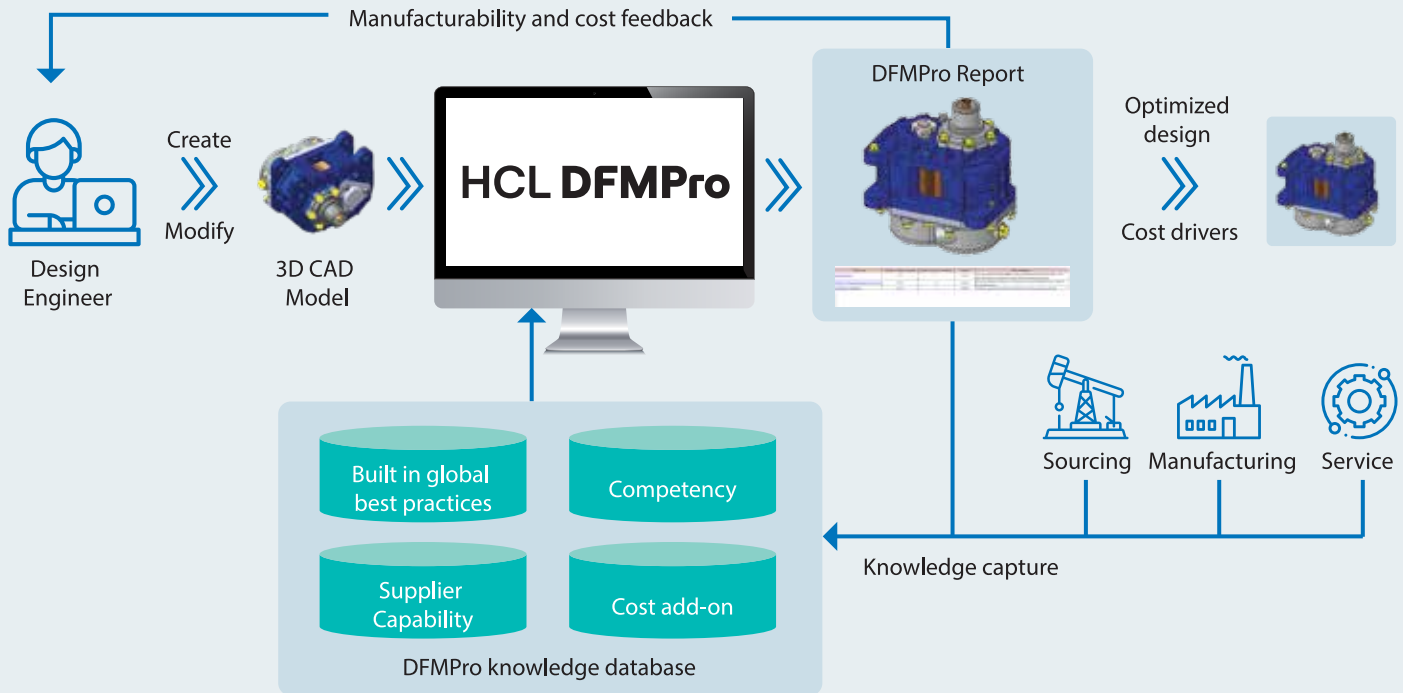


DFMPPro recommendations

## Easily Integrates Into Existing Enterprise Infrastructure

- Integrates easily with PLM, ERP, and MES systems
- Scalable framework for capturing and disseminating manufacturing knowledge upstream

# HCL DFMPPro – A Digital Design Expert



- CAD integrated easy to use digital design expert
- Automatically captures and highlight issues that leads to engineering rework
- Identifies opportunities for cost reduction for a component
- Digital collaboration between downstream stakeholders for design reviews

## HCL DFMPPro Supports various CAD platforms

### DFMPPro for CATIA V5



### DFMPPro for CREO



### DFMPPro for NX



### DFMPPro for SOLIDWORKS



# DFMPro Cost Add on

DFMPro cost add-on provides early cost visibility to design engineers right from when designs are getting created.

- Evaluates design choices based on material, features, geometry & manufacturing regions
- Identifies expensive design features impacting cost due to manufacturability and get recommendations for cost reduction
- Tracks the cost as designs are getting created
- Applies standardization and component re-use



## DFX Analytics

DFX platform offers DFX Analytics as one of the solution for customers to get visibility of various parameters to check overall product design efficiencies

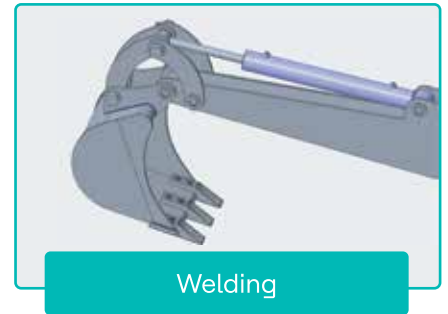
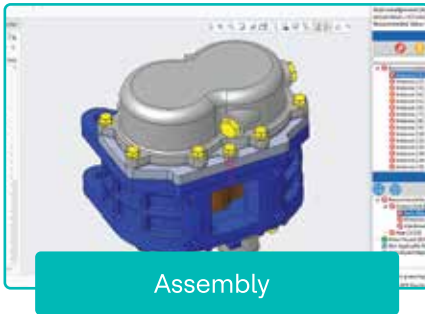
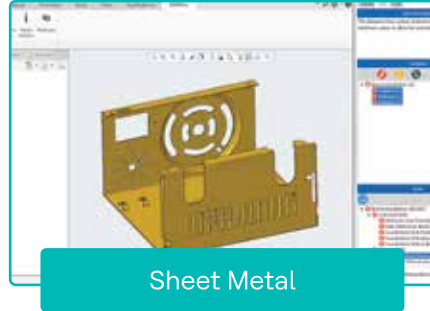
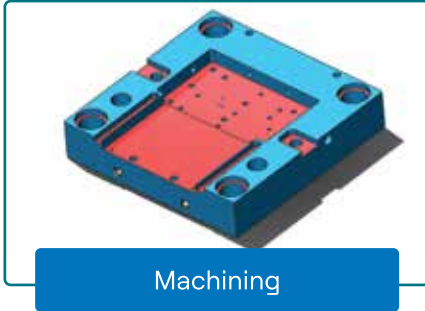


## DFX Server Solution

HCL DFX Server Solution is an extended capability of HCL DFMPPro for customers who face challenges related to rework, cost, and quality for large assemblies. With DFX Server Solution, designers can check the impact of part and sub-assembly level changes on higher modules and assemblies prior to submitting their designs in an offline mode on the server. As a result, large assemblies that would have been excluded from an automated DFMPPro analysis earlier are now included right at the design stage. DFX Server Solution benefits include:



# HCL DFMPPro Supports all Manufacturing Processes



+ many more

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*In our organization, time to market is of utmost importance besides other factors. HCL DFMPPro product enabled us to digitize the design rules for a quick & timely feedback.*

*Apart from sets of standard design guidelines in the DFMPPro, we partnered with HCL to add Cisco specific design rules that caters to our organization. DFMPPro is the only automated tool for Design for Manufacturability (DFM) analysis besides input from manufacturer or analyzing parts manually. We have DFMPPro configured for Sheet Metal, Plastic & Die-cast parts to ensure that the parts are designed for manufacturability.*

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# HCLSoftware

**HCL DFMP**ro

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## About HCLSoftware

HCLSoftware develops, markets, sells, and supports product families in the areas of Digital Transformation, Data, Analytics & Insights, AI & Automation and Enterprise Security platforms. HCLSoftware is the cloud-native solution factory for enterprise software and powers millions of apps at more than 20,000 organizations, including more than half of the Fortune 1000 and Global 2000 companies. HCLSoftware's mission is to drive ultimate customer success with its IT investments through relentless product innovation.

<https://www.hcl-software.com>