Ten Reasons to
Utilize Windchill® 10

- •**DO MORE** THROUGHOUT THE PRODUCT LIFECYCLE
- •**KNOW MORE** ABOUT YOUR PRODUCT PERFORMANCE
- •**GET MORE** VALUE OUT OF YOUR PLM SYSTEM

NOTE: One needs to be online to view interactive media.

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For executives, managers and members of product teams seeking to better manage the complexities of creating and servicing products, Windchill 10 can help bring products to market faster while meeting an ever in-creasing number of market requirements. Windchill 10 offers powerful capabilities that allow you to do more with regard to the configuration, validation and control of product structures – from engineering through aftermarket servicing. Companies can know more about their products' performance with Windchill modules that focus on product analytics and quality management. And with a modern user experience and power-ful administration tools, customers can get more value out of their PLM investments with Windchill 10.

Here are ten reasons why using Windchill 10 can help you
Do More > Know More > Get More

Do more with configurations throughout the product lifecycle:

- Manage a wide **breadth** of different product structures

- Great **depth** of content within a product structure

- Capabilities to help streamline your key **processes**

Know more about your product's performance

- Understand **product cost** early in the product lifecycle

- Manage and improve **product quality**

- Understand whether a product meets **compliance and environmental regulations**

Get more value out of your PLM System

- Easy to **learn**

- Easy to **use**

- Easy to **maintain**

More resources to fully leverage the power of Windchill 10

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Breadth of capabilities

Windchill 10 manages the complete digital product representation from initial project planning to critical aftermarket business processes.

- Manage both simple and complex product structures which may contain multiple kinds of content developed using PTC or third-party applications

- Repurpose engineering bills-of-materials (eBOMs) data to define manufacturing information such as mBOMs (manufacturing bills-of-materials) and process plans.

- Create and manage product-centric technical information and service bills-of-materials (sBOMs)

- Deliver configuration-specific product and information – including dynamic parts lists, works instructions, mBOMs, maintenance procedures, training materials and operator instructions.

Do More:

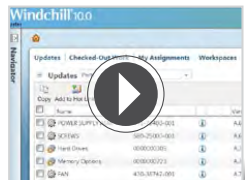Enable concurrent design and manufacturing activities

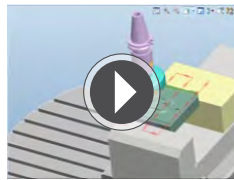Improve product and service performance
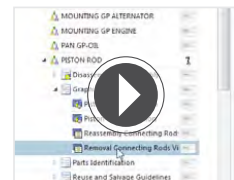
Streamline design and manufacturing outsourcing

Plan	Design	Source	Assemble	Sell	Support

Windchill supports the entire product and service lifecycle

Program Portfolio Management

Product Data Management

Manufacturing information

Service Information

Service Parts

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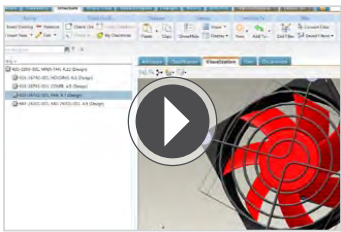
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Depth of capabilities

Windchill 10 offers one user experience for both mechanical and electrical engineers. Whether it's engineering drawings, initial sketches, schematic drawings, PCB layouts or wire harnesses – all product content is accessible anytime, anywhere, across all teams and organizations.

Overview of CAD Data Management in Windchill 10

MCAD

Windchill offers bi-directional capabilities with all for the leading mechanical design applications to allow many groups and/or vendors to easily collaborate together on the overall design.

Tutorial on Managing ECAD Design Data in Windchill 10

ECAD

With more and more companies now having to work with electro-mechnical products, Windchill allows you to incorporate electrical designs together with mechanical models within one repository.

Do More:

Manage MCAD, ECAD, Software and related documents in one central repository

Embedded Software Impact

Software

Windchill also tightly integrates with PTC's Integrity software to ensure that a product configuration is utilizing the correct version of software.

In addition to Integrity, Windchill also offers out-of-the-box integrations with open-source software development tools such as Eclipse, Subversion and Bugzilla.

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Process-related capabilities

Windchill 10 simplifies and streamlines many product lifecycle processes such as:
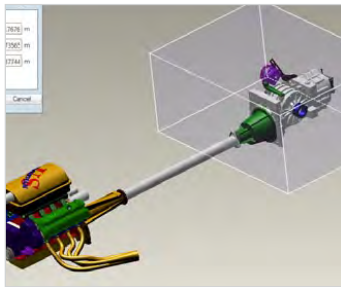
Detailed Development

- Manage detailed design – from planning through release-to-manufacturing

- Top-down design – Increase productivity by creating and/or modifying CAD assemblies directly within Windchill, outside of the CAD environment.

- Design-in-context – Reduce and even eliminate the need to work with large top-level assemblies
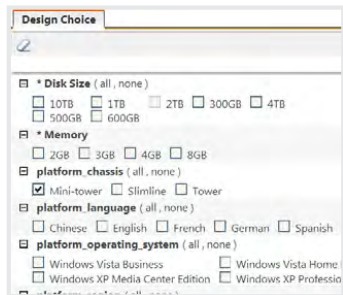
Variant Design and Generation

- Streamline Assemble-to-Order (ATO), Configure-to-Order (CTO) or Engineered-to-Order (ETO) product development

- Define the logic and rules that govern all possible product variations

- Generate a list of product options for multiple departments to utilize in defining acceptable product variations

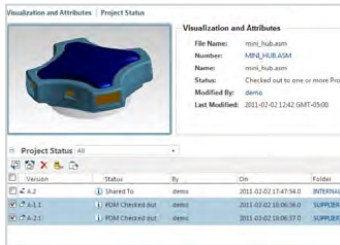Do More:

Improve product lifecycle processes
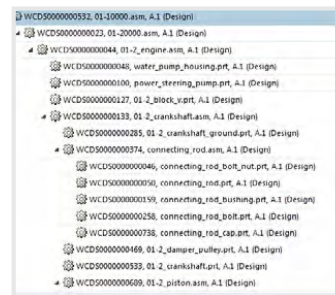
Change and Configuration Management

- Out-of-the-box best practice change management process

- Manage evolution of configurations over time using lifecycle templates

- Efficiently compare and investigate product structures

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Do More > Know More > Get More

Process-related capabilities

Partner Collaboration

- Simultaneously work with multiple vendors by checking out a CAD design to multiple projects at the same time

- Transfer packages of product information with security and traceability between unconnected PLM systems
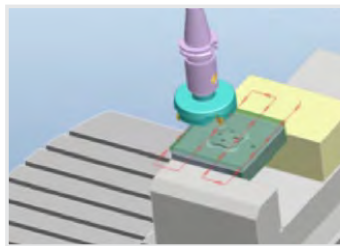
Manufacturing Process Management

- Enable concurrent product and manufacturing process definition

- Define logic and rules to govern possible manufacturing variations

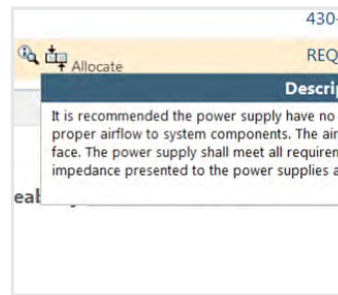- Easily utilize key manufacturing characteristics within a process plan
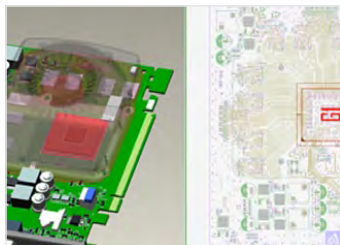
Validation and Verification

- One user experience to interrogate both ECAD and MCAD abstractions

- Automatically detect, manage and report interferences in 3D product models

- Easily create interactive animations

Do More:

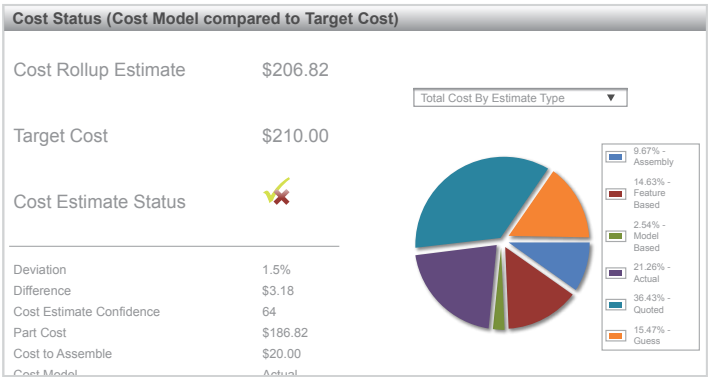## Improve product lifecycle processes

Requirements Definition and Management

- Easily understanding the relationships between requirements and product structures

- Provide visibility of requirements to all teams throughout the product lifecycle

- Monitor how well a product complies with customer expectations

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Product cost analytics

Windchill Cost makes product cost analytics an integral part of the standard product development process. This helps ensure that products are launched at or below target costs by providing real-time visibility of target and estimated costs to all stakeholders.

Cost Status (Cost Model compared to Target Cost)

Cost Rollup Estimate	$206.82
Target Cost	$210.00
Cost Estimate Status	

Total Cost By Estimate Type

Deviation	1.5%
Difference	$3.18
Cost Estimate Confidence	64
Part Cost	$186.82
Cost to Assemble	$20.00
Cost Model	Actual

- 9.67% - Assembly
- 14.63% - Feature Based
- 2.54% - Model Based
- 21.26% - Actual
- 36.43% - Quoted
- 15.47% - Guess

Compare actual and target costs

Part Number	Description	Quantity	Target Co...	Cost Esti...	Diffe
PGH18213	Screw - 5mm	4	$0.8000	$1.0000	
MXT224	Touch Screen Controller -	1	$12.2500	$17.0000	
PMB9801	Baseband, ARM1776 Core		$17.0000	$12.0000	
PGH4560	Bracket		$0.6500	$0.6700	
5TP500	Rotor			$5.0000	
VMM800	Frame	1		$6.0000	
SP4960C3A	Battery -Li-ion, 3.7V, 4000	1	$25.0000	$19.5000	
MAX8998	Power Management IC	1	$10.0000	$1.0000	

Windchill cost demonstration

Know More:

Immediately analyze the cost of any product design change

Create accurate, up-to-date cost reports

Manage Cost Estimates

Back to Company Part Information

Jump To	Enter Cost Estimates
1. Enter Cost Estimates	

Company Part

Part Number:
LMS700
Description:
Display Module 7 inch Diagonal
Commodity:
Organization:

Estimate Type	Estimate Options	Primary	Cost Estimate*
Actual	Edit Comp	●	$ 9.80
Asia Manufacturing	Edit Comp	○	$ 2.00
ERP Last Purchased Price	Edit Comp	○	$ 10.80
Add Cost Estimate			

Owner: jse

Windchill cost

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Product quality

Windchill Quality Solutions offer a systematic, enterprise-wide approach to ensure a product meets the requirements defined for it over the course of its lifecycle.
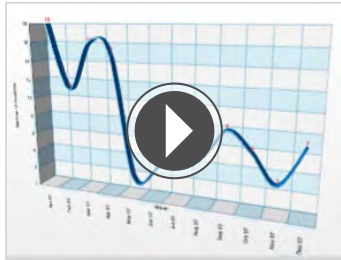
Quality overview video

Quality planning

Balancing requirements for function, safety, performance and cost while ensuring these requirements are validated during design, test, manufacture, service and use
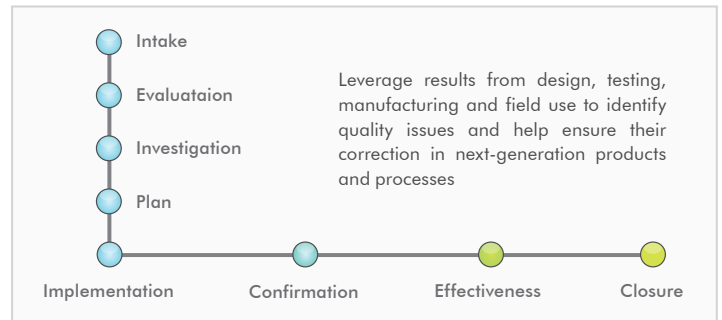

Quality demo video

Quality execution

Analyzing product reliability and risk early during product design, testing as-designed products to validate performance and controlling critical characteristics during manufacture and service

Know More:

Manage and improve product quality across the product and service lifecycle

Quality improvement

Intake
Evaluataion
Investigation
Plan
Implementation   Confirmation   Effectiveness   Closure

Leverage results from design, testing, manufacturing and field use to identify quality issues and help ensure their correction in next-generation products and processes

Quality governance

Establish enterprise-wide quality guidelines and policies to monitor quality improvement efforts, meet government or industry standards and provide complete management visibility into issues of product and process quality

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Product compliance and environmental impact

Windchill Product Analytics modules provide current, accurate visibility of environmental compliance, with regulations such as REACH and RoHS, as well as carbon emissions and other critical performance factors. Utilizing actual product data while automating the traditionally time-consuming processes of supplier data capture, BOM roll up, and reporting, allows companies to make decisions earlier and identify issues before they become costly problems in manufacturing or the field.

Windchill Compliance Overview Video

Windchill Compliance Demo video

Know More:

Ensure products comply with the latest government regulations

Minimize a product's carbon footprint
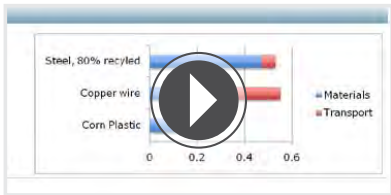
Windchill LCA Overview video
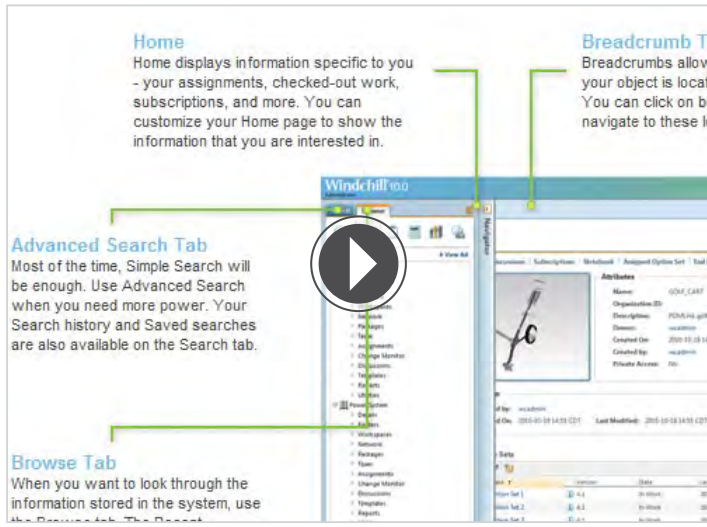
Windchill LCA Demo video

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Easy to learn

The Windchill 10 user experience has a clean look and feel that minimizes the learning curve.

UI enhancements overview video

Get More:

Expand or accelerate the roll out of a single PLM system to the extended product organization

Windchill can be the single source of product information for not just Engineering, but the entire enterprise

MARKETING
Access up-to-date 3D models for promotional activities

SALES
Check status of customer's latest design

FIELD OFFICE
Look-up configuration-specific data

PROCUREMENT
Determine which products use a particular component

MANUFACTURING
Ensure new products are designed for manufacturing

PROGRAM MANAGEMENT
Know the up-to-date status of any program-related change requests

EXECUTIVES
Understand the overall state of portfolios, programs, and projects

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Easy to use

Users can personalize Windchill to only display information that's relevant to them.

Easily define search criteria and then save searches for later use

Customize the information you want to see on your home page

Get More:

A personalized experience for every user

Users can quickly return to recently viewed information

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Easy to maintain

Windchill 10 offers improved monitoring and troubleshooting capabilities with tools that help optimize numerous IT and business administrative processes. Windchill 10 also offers tools that allow administrators to configure the system to their specific needs, as opposed to costly customization.
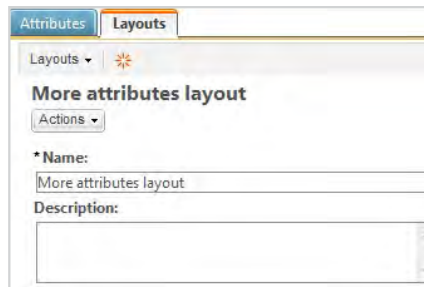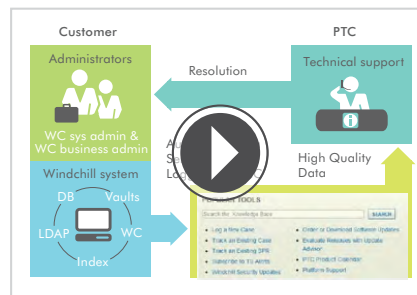

Add new attributes to standard forms and displays to ensure you gather and show information that's important to your company.
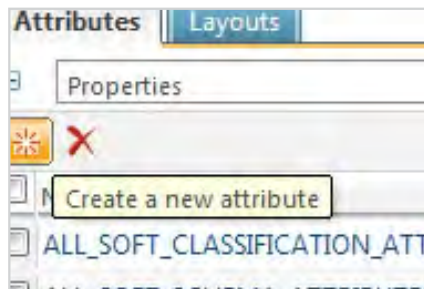
Easily define new attributes with out-of-the-box configuration tools and forms.

Get More:

Lower the total-cost-of-ownership (TCO)

The **System Configuration Collector** accelerates the problem resolution process.
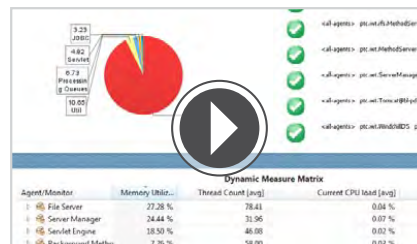
The **PTC System Monitor** constantly monitors and proactively detects any system bottlenecks in the Windchill production environment before they impact users.

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More resources to fully leverage the power of Windchill 10

PTC has many free tools and resources to help you learn more about Windchill 10:

Explore – The Windchill Interactive Experience allows you to see, experience and learn about Windchill 10 through videos, demonstrations and other resources.
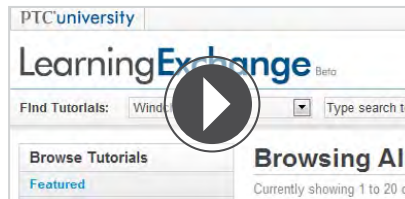
Discuss – Join the conversation with other Windchill users at PlanetPTC Community to discover more about Windchill 10.

Learn more about Windchill today!
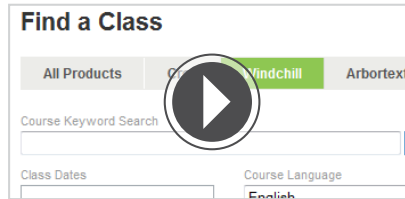
Learn – Learn from the experts at PTC University with role-based courses that are offered online as well as in classrooms around the world.

Visit – Visit the LearningExchange for free tutorials created by PTC product experts.

To learn more about PTC Windchill, please visit our website:
https://www.single-sourcing.com