

# Mechanical Desktop Integrator

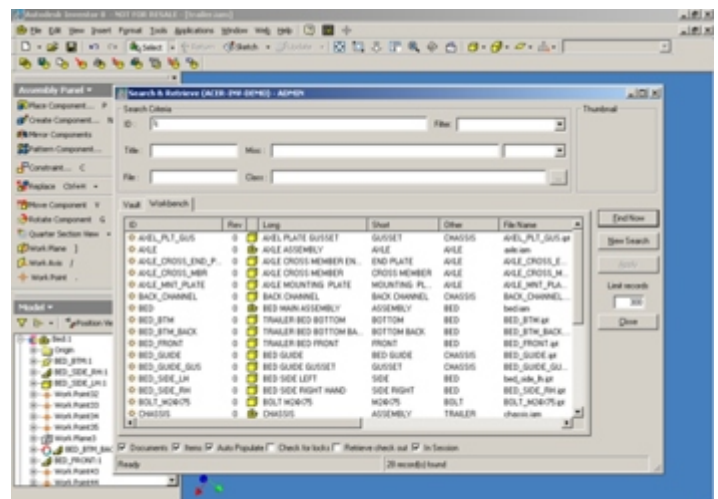
## AutoDesk Mechanical Desktop® Data and File Management

Mechanical Desktop is a powerful 3D CAD design package enabling your designers and engineers to create new and innovative designs faster than ever. Pulse PLM Mechanical Desktop Integrator allows you to easily share and modify the design information created in your Inventor environment, with other team members and throughout the extended enterprise, thus improving the accuracy of product development and speeding the overall process. The information and data stored within your Mechanical Desktop files is an essential and invaluable company resource. Your business revolves your design data. Managed properly and effectively this information can provide other company departments with the critical product data needed for the business to function smoothly.

During the design of a product your colleagues working both within the design workgroup and throughout the extended enterprise need to get involved in the design process. Collaboration of the design information and sharing of design data across your organisation becomes crucial in reducing the time to manufacture for your new product design. The problem is how can you effectively distribute this information throughout your organisation so that time to market, quality and costs are not adversely impacted.

Companies need to stay one step ahead of their competition and deliver quality products at the highest speed. Shortening cycle times is the key to survival. Delays in new product introductions caused by information gaps, misunderstandings and unmanaged change processes, can cause significant loss of income and reduction in market share. Avoiding this requires collaboration and communication across the enterprise.

When the new design has gone into manufacturing product enhancements and changes follow. Making those changes, controlling those changes and communicating their information throughout the company is key. Does your change process allow for effective, fast, traceable implementation?



### The Solution:

Pulse PLM Mechanical Desktop Integrator can harness the power of your design information and enable it to be effectively shared across your enterprise. A new menu and toolbar within Mechanical Desktop provide seamless integration and interaction with Pulse PLM's file and data management features, enabling the engineer to become more productive and efficient without having to leave the native Mechanical Desktop environment. With the power of Pulse PLM, engineers can share information with each other and other colleagues without fear of work being overwritten and confident that other colleagues can access the latest information as soon as it becomes available.

### Improved Productivity

The Pulse PLM Mechanical Desktop Integrator can dramatically improve your engineer's productivity by speeding up the way Inventor files are handled. Network bottlenecks can significantly hinder productivity. Pulse PLM stores the complex Mechanical Desktop file dependency information in a

database while using advanced compression technology to store the files in a secure vault. The Mechanical Desktop files are moved across the network in this compressed format and expanded on the engineer's local machine, thus improving file retrieval time. Pulse PLM allows for any number of designers to work on the same project at the same time yet protecting individual files by preventing unauthorised or dual access. All this results in faster design times and quicker time to market and to profit for your new products.

## Bill of Material Management

While Mechanical Desktop is a great tool for designing and the outline creation of a Bill of Material, its particular strengths don't lie in BoM management. Pulse PLM can take the as-engineered BoM's that come from Mechanical Desktop and allow them to be manipulated via a drag and drop BoM Manager. Typically designers will not model every component in CAD, so Pulse PLM allows for the addition of other non-modelled items such as fasteners, glue etc. This will allow for the creation of the as-manufactured or as-built BoM that can then be exported to the company's ERP system.

## Prototype Costing

Other design information captured from the Mechanical Desktop design like Length, Width, Mass, Material etc., can be used to drive reports such as item costing, cutting lists, process routes etc. The cost of a particular material type can be set and maintained by the Administrator, allowing for accurate and timely costing information.

## Managing Change

Once a design has gone into production, Pulse PLM can again be used to automate and speed business processes, such as change and release management. Rapidly managing, communicating and incorporating product design changes improves product design quality, reduces scrap and rework and improves material and resource planning. Through the use of our unique Action Request manager, you can define custom processes with individual

workflow, such as Engineering Change Orders, Corrective Action Requests etc. The Pulse PLM Mechanical Desktop Integrator is automatically linked into this information allowing engineers to perform the work instructions contained in these Action Requests.

## Reduced Learning Curve

Implementation of the Pulse PLM Mechanical Desktop Integrator can be accomplished in a very short space of time. On screen task wizards are provided for a variety of functions such as new file creation and file revision, gathering the information required and guiding the user through the process. The wizard seeks assignment of part numbers, description etc at the time of the file creation. Saving the file through the Pulse PLM Mechanical Desktop Integrator allows for the bi-directional transfer of data like BoM information, parameters such as mass, length, width, material type etc. The open dialog provides an interface for users to check files in and out from the vault to their local workbench and get in-depth information on the files and who else is working on them. Research shows that designers spend the majority of their time looking for information. Powerful search retrieve tools are provided to enable users to find the information they are looking for. The cost of designing and stocking a new part when an existing stock part would have met the design requirements, is sizeable. Pulse PLM provides tools to ensure that previous design data and information is maximised.

## Get Products to Market Faster

Pulse Systems solutions ensure reliable, efficient and effective Mechanical Desktop file and data management that seamlessly integrates to the way your company operates. Design engineers and other extended team members have immediate access to the latest versions of design and product data. The Pulse PLM Mechanical Desktop Integrator will help insure that you get better more profitable, products to market, quicker than your competitors.

