

MechWorks PDM

The role of MechWorks PDM is to supervise and manage the communication between three entities:

- ▶ Client (User)
- ▶ File Server
- ▶ Database

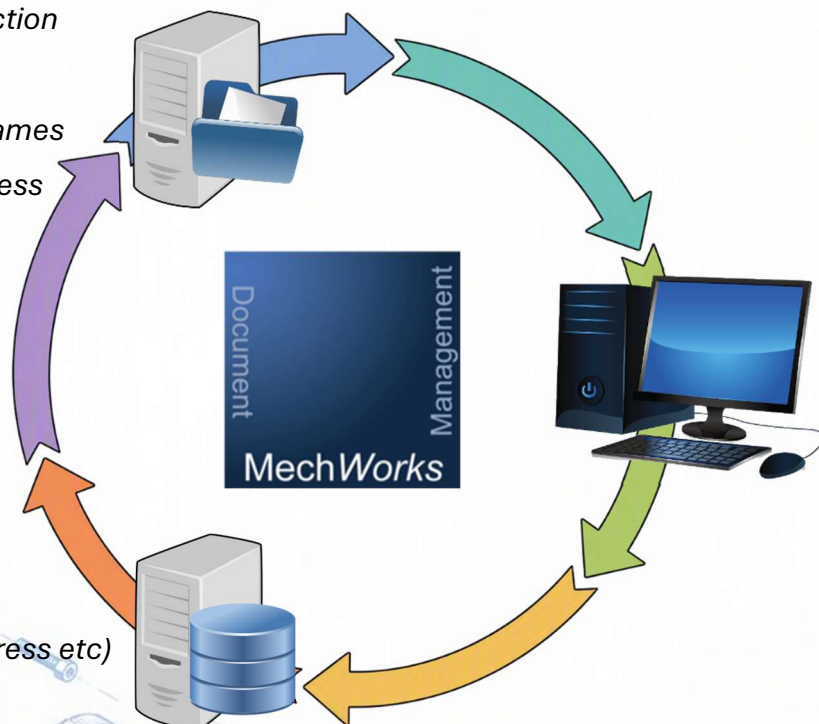
MechWorks PDM works as an interface and connecting element, it doesn't try to replace the other components' activity; it has originally been developed to assist them instead, and it's constantly updated to provide a better service every time.

Server File

- ▶ Windows ACL file protection
- ▶ Protected Repository
- ▶ Logical file and folder names
- ▶ Native files formats/access
- ▶ Industry Compliant

Database

- ▶ Protected MetaData
- ▶ Supported DB (SQL Express etc)
- ▶ Bi-directional updates



Client (User)

- ▶ CAD
- ▶ MS Office
- ▶ Other



SkillPower

Improve your **skill**, boost your **power**

MILANO – BRESCIA – VENEZIA



MechWorks PDM simplifies data management thanks to a user-friendly, flexible and easily customizable environment. The platform is compatible with all the most popular CAD systems, and it adapts to the company's process map reducing implementation and user-handling times. Thanks to its wide customization possibilities, MechWorks PDM grows with the company, promoting its evolution and answering the operative needs of today and tomorrow.



MechWorks PDM is designed to grow together with the company maximizing the efficiency of the available resources and infrastructures. It's integrated with the CAD environment, supports the existing processes without interfering with their functioning and allows the users to keep working using the tools they know and are comfortable with. The management and safety of data is based on the standard market technology, while the use of relational databases, such as Microsoft SQL Server, ensures reliability, performances and easiness of integration. Thanks to the support for ODBC connections, MechWorks PDM can share information with other company resources promoting the centralization and the enhancement of the IT assets.

One of the biggest strengths of MechWorks PDM resides in the high performances in the management of data access. Thanks to its infrastructure, built on standard technologies and open databases, the system ensures quick operations even with huge quantities of documents and information. The use of widespread relational databases enforces the integration with other systems within the company and data sharing, allowing companies to maximize the efficiency of their environments without the need of proprietary platforms.



SkillPower

Improve your **skill**, boost your **power**

MILANO – BRESCIA – VENEZIA

With the growing number of projects and the huge amount of technical data to be managed, keeping control on files, revisions and other information is becoming complex and complex. MechWorks PDM is designed to simplify these processes, offering a quick and structured access to data and promoting a more efficient management of the technical documentation. The advantages will become particularly evident in the process of switching from a traditional file management system to a controlled and organized environment in which information and processes are under control.

CAD without MechWorks PDM

Before the introduction of a PDM system, the management of shared components represents one of the main causes for errors. It is widely common that more assemblies use the same files and that several users work simultaneously on related projects. In this context, modifying a component can lead to unpredictable repercussions: on one hand, some users can't see some of the updates. On the other hand, a modification can affect numerous assemblies without the user even noticing. The result is a loss of control on revisions and on the project data integrity.

CAD with MechWorks PDM

*The **Check-Out** feature assigns the rights to modify an object to just one user. The system can also notify when a read-only component has been updated by another user, leading to a correct management of modifications during the working session.*

*Thanks to the **Where Used** function it's possible to visualize all the assemblies using a certain part immediately, making it easier to understand the impact that a single modification can have.*



SkillPower

Improve your **skill**, boost your **power**

MILANO – BRESCIA – VENEZIA

CAD **without** MechWorks PDM

Before implementing a PDM system, file organization often depends on individual users' habits. Differently structured folders, inconsistent filing conventions, and manual permission management can lead to confusion, inefficiencies, and difficulty in locating information. As the number of documents and users involved grows, maintaining order, security, and data consistency becomes an increasingly complex challenge.

Before implementing a PDM system, revision control is often a critical issue. Document versions are managed manually, making it more difficult to identify with certainty which revision is the correct one. Retrieving the change history takes time, and the ability to compare different revisions is generally limited, increasing the risk of errors and rework.

The search for components and assemblies is often complicated, time-consuming, and does not yield the desired results.

CAD **with** MechWorks PDM

With MechWorks PDM, business rules can be automatically enforced through configurable scripts and processes, reducing manual errors and ensuring greater data reliability.

At the same time, optimized file management limits unnecessary transfers and allows users to access information more quickly, increasing productivity and efficiency.

Thanks to MechWorks PDM, revision management no longer relies on manual procedures. The complete file history is always available and accessible, allowing you to quickly compare different versions and restore a previous revision in just a few simple steps. The result is greater control over changes, improved traceability, and a significant reduction in the risk of errors.

MechWorks PDM allows you to create SQL queries directly or through a user-friendly interface (Advanced Filter) that helps you optimize your searches and obtain more precise results in less time.



SkillPower

Improve your **skill**, boost your **power**

MILANO – BRESCIA – VENEZIA

CAD without MechWorks PDM

Before implementing a PDM system, renaming or replacing a component requires special attention. Since a single file can be referenced by numerous assemblies, every change must be managed and verified manually. As project complexity increases, the risk of errors, missing references, and data inconsistencies rises significantly.

Managing documents using folders and subfolders leaves the organization of data up to users. This can lead to duplicate files, difficulties in locating the correct version of documents, and inconsistent filing structures across different departments. As a result, quickly finding components and documents becomes an increasingly complex and less efficient task.

CAD with MechWorks PDM

With MechWorks PDM, renaming and replacing components no longer require complex manual checks. The system automatically identifies all documents that use a specific file and updates the references in a controlled and reliable manner.

Thanks to the “Where Used” feature, users can also immediately see which assemblies, drawings, or documents are affected, allowing them to work with greater confidence and control over changes.

MechWorks PDM manages documents through projects, simplifying the organization of and access to information. Components and assemblies are associated with the active project and can be linked to multiple projects without creating additional copies, since the system maintains a single reference file. Thanks to the database’s search capabilities, documents can be found immediately without having to navigate through folders and subfolders. Projects can also be protected using specific access permissions for authorized users and groups.

**SkillPower**Improve your **skill**, boost your **power****MILANO – BRESCIA - VENEZIA**

CAD without MechWorks PDM

In the absence of a centralized system, technical information is often replicated across multiple databases and business applications. Each instance of duplication introduces a potential point of error, increasing the risk of inconsistent data and making it more difficult to ensure the reliability of information throughout the entire business process.

Without a PDM system, viewing and generating bills of materials depends on access to the corresponding CAD assembly. This approach can be impractical and limit the availability of information to other departments within the company.

Printing a series of documents all at once is often a complicated and inefficient process.

CAD with MechWorks PDM

Thanks to its use of standard Microsoft SQL Server databases, MechWorks PDM can easily integrate with other enterprise information systems. Information is managed from a centralized data source, eliminating duplication and significantly reducing the risk of inconsistencies. The result is greater data reliability and more effective collaboration across different departments.

MechWorks PDM automatically records the structure of assemblies in the database, allowing you to quickly generate and view bills of materials without having to access the CAD software directly. Bills of materials can be exported to Microsoft Excel, automatically inserted into drawings, and easily shared with other enterprise systems.

MechWorks PDM allows you to print all documents associated with a project or assembly in a single operation, significantly speeding up the production and distribution of documentation. The system supports the use of different printing devices based on the format of the drawings and allows you to easily customize the documents with specific and up-to-date information.

**SkillPower**Improve your **skill**, boost your **power****MILANO – BRESCIA – VENEZIA**

CAD *without* MechWorks PDM

In the absence of dedicated process-monitoring tools, the oversight of activities and the analysis of information often rely on manual checks. The lack of structured reporting capabilities makes it more difficult to assess the status of projects, identify critical issues, and support decision-making processes.

CAD *with* MechWorks PDM

Thanks to the complete traceability of the information stored in the database, MechWorks PDM provides powerful reporting and analysis tools. This enables companies to accurately monitor activities, documents, and processes, obtaining strategic insights in just a few moments that would otherwise require lengthy manual checks.

The features described here represent only a fraction of the benefits that a PDM system can offer. Effective management of technical data means greater control, more efficient processes, and smoother collaboration across departments.

MechWorks PDM is a reliable, customizable, and easy-to-use solution designed to simplify the management of documents and product information throughout the entire business lifecycle.

MechWorks PDM: a single platform for managing, protecting, and sharing the information that helps your business grow.

**SkillPower**Improve your **skill**, boost your **power****MILANO – BRESCIA – VENEZIA**