



PART
SOLUTIONS

powered by CADENAS

INTELLIGENT PARTS MANAGEMENT

PART AND SUPPLIER CONSOLIDATION SERVICES

ENABLE STANDARDIZATION AND PART REUSE

GEOMETRIC SIMILARITY SEARCHING

AUTOMATIC CLASSIFICATION

PROCESS OPTIMIZATION

WHAT IS INTELLIGENT PARTS MANAGEMENT ?

PARTsolutions is the leading intelligent parts management system for finding and controlling standard parts throughout all departments of your company. The management and use of similar or duplicate parts has proven to be very costly at many levels of engineering, purchasing, deployment, and maintenance. These unnecessary expenses can be eliminated with technology from PARTsolutions.

BUSINESS BENEFITS:

1. Reduced direct costs
2. Optimized global inventories
3. Tighter integration with suppliers
4. Improved product quality and reliability
5. Increased profitability and customer satisfaction

We provide our clients with tools that enhance decision making in the part selection process that enable part reuse and management of standards. Our deep understanding and experience with ERP/PDM/CAD has resulted in seamless integrations and process workflows that reduce the time spent searching for standard parts. Because our solutions are easy to use and non-disruptive to IT strategies time and cost saving are realized at every phase of the implementation process.

FUNCTIONAL AREAS OF PARTS MANAGEMENT

- ▶  Multiple-sources of information
- ▶  Intelligent and process oriented parts and assemblies
- ▶  Custom parts and commercial parts
- ▶  Standardization and data sheets
- ▶  Product configuration and product assistant
- ▶  Finding instead of searching
- ▶  Geometric similarity search
- ▶  Automatic classification
- ▶  Part reduction (searching-, analyzing-, assessing- & reducing duplicates)
- ▶  Process optimization
- ▶  Change Management of parts/catalogs
- ▶  Quality management of custom and commercial parts
- ▶  Roles & Filters
- ▶  Collaboration Engineering Portal (including suppliers)

“Our suppliers use the PARTsolutions electronic catalog and are motivated to maintain their own data so their parts are readily available. We map the code numbers and classifications of our central inquiry system that defines the attributes and code numbers of all components at DaimlerChrysler Stuttgart to PARTsolutions such that the user has only one system for standard and purchased parts.”

DAIMLERCHRYSLER AG

DAIMLERCHRYSLER

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ORGANIZE AND STRUCTURE

ACCESSING / MANAGING

FINDING VS. SEARCHING

STANDARD / COMMERCIAL PARTS

REFERENCES

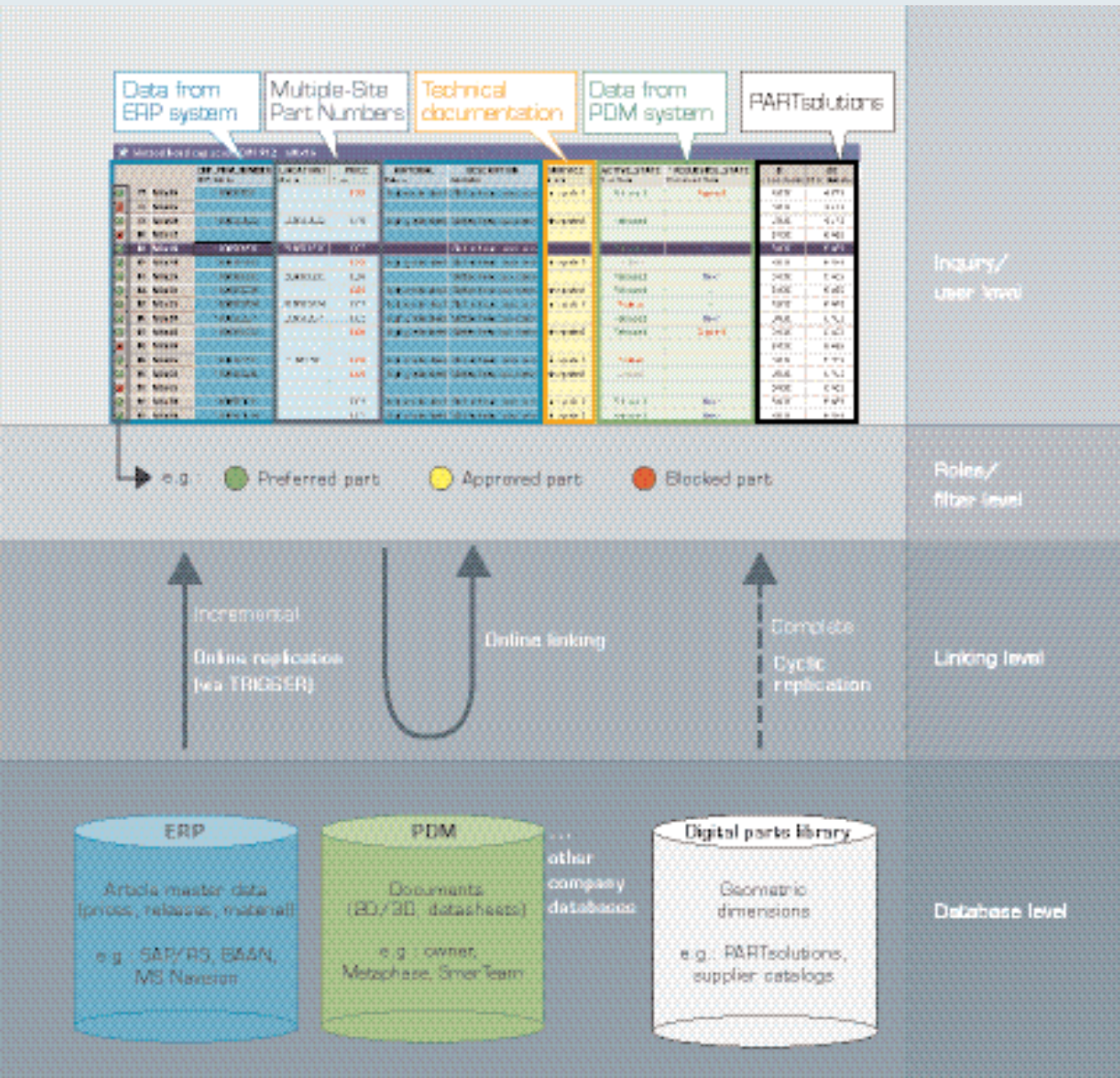
PART AND DATA CONSOLIDATION – ALL INFORMATION IN ONE OVERVIEW

The PARTsolutions intelligent parts management system offers the ability to review information from different sources (digital library, PDM, ERP...) in one place. Select data can be brought together for efficient understanding and decision making.

Even Information such as site-specific part numbers can be seen together and cross referenced. This single-source of reference can save valuable time tracking down the right part.

“Product Lifecycle Management (PLM) is a conceptual approach to authoring and managing all the information about a product as it moves through its intended lifecycle. It’s not a stand-alone application but rather a collection of systems like CAD/CAE/PDM/ERP and Intelligent Parts Management used throughout a company as it designs, manufactures and delivers its products.”

TIM THOMAS,
CEO,
PARTsolutions, LLC



PART CONSOLIDATION SERVICES

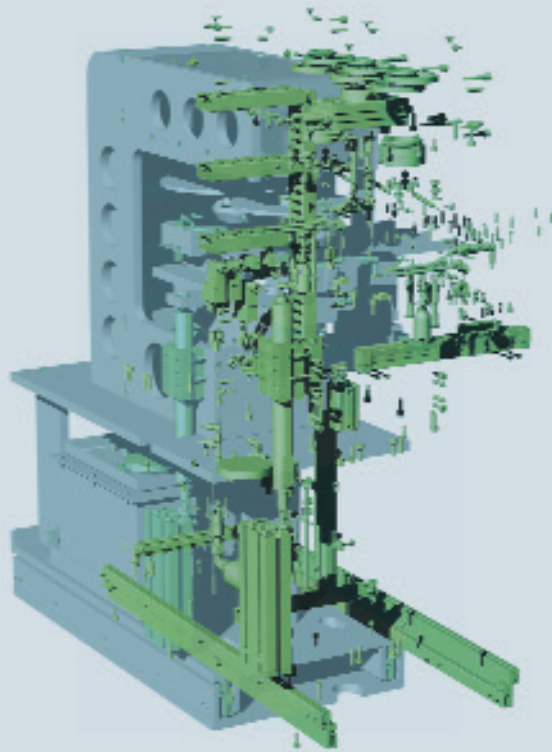
“PARTsolutions parts management system is part of our product portfolio. That's why we want to offer our customers comprehensive process support that allows use of one's own standard parts, industry standards and catalog parts in a multi-CAD, PDM and SAP environment!”

The possibilities for duplicate reduction lowers costs considerably.”

FRANK SCHLICHTER,

CENIT AG

cenit



Without parts management, the unnecessary costs for using and managing similar or duplicate parts will continually grow unchecked. A part consolidation project will first assess the existing situation and help find those similar parts and duplications, with metadata and geometric searches and comparisons. Automatic classification can follow, with a consolidation of suppliers and commercial parts.

Then, fully implemented Intelligent Parts Management will ensure that control is maintained and the environment for utilizing standard parts is optimized.

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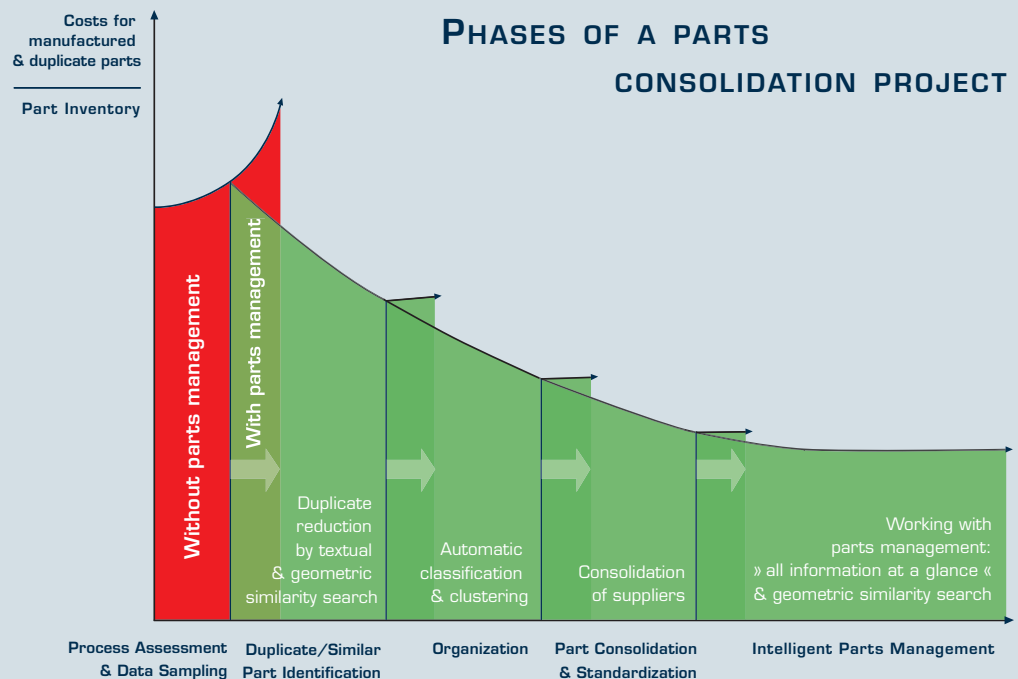
ORGANIZE AND STRUCTURE

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The parts consolidation system add-on of PARTsolutions is called PARTwarehouse. With it, you are able to optimize all phases of your consolidation project individually.

AUTOMATIC CLASSIFICATION AND ORGANIZATION

With PARTsolutions, you are able to automatically classify your company standard and reused parts based on your individual CAD files. The technology of automatic classification is new, with an international patent pending.. You can build up your own custom classification systems as well.

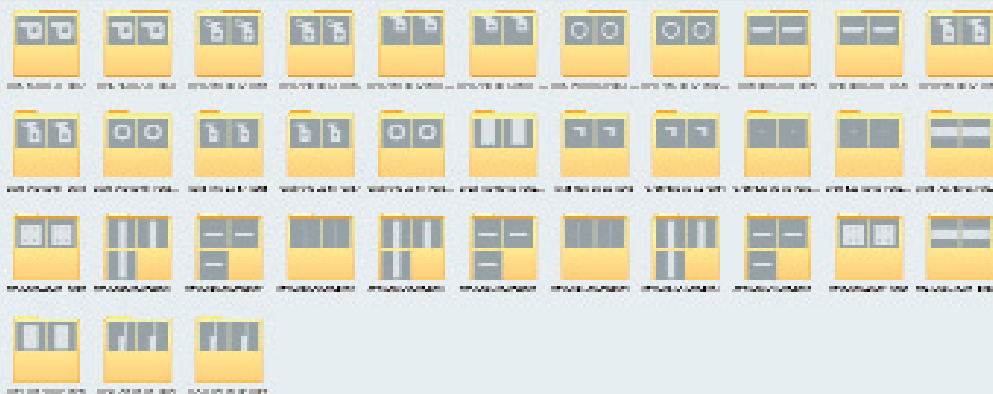
Working with the geometric and textual part data to cluster, group and then assign parts to classes. Company defined organization or industry defined organization can be established.

“By using PARTsolutions we have a catalogue system that can talk to all of our customers' CAD packages with true native CAD data. That is a huge asset to any engineering department.”

ROD BEREZNICKI,
KUKA
FLEXIBLE PRODUCTION SYSTEMS



Suppliers who publish their product catalogs in PARTsolutions are able to classify their data as well.



ORGANIZE AND STRUCTURE YOUR PARTS DATA

The intelligent parts management system manages many different organizations of catalogs and libraries.

“Because of the integration of PARTsolutions in our ERP System, we were able to reduce search times for already existing article numbers. Also the new establishment of standards in the ERP-System is much more comfortable with PARTsolutions.”

BERND POSTAREMCZAK,
SMS EUMUCO



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STANDARD AND OFF-THE-SHELF PARTS



... and many more

SUPPLIER CATALOGS



... and many more

ENTERPRISE SPECIFIC PARTS (OUT OF YOUR CAD SYSTEM)



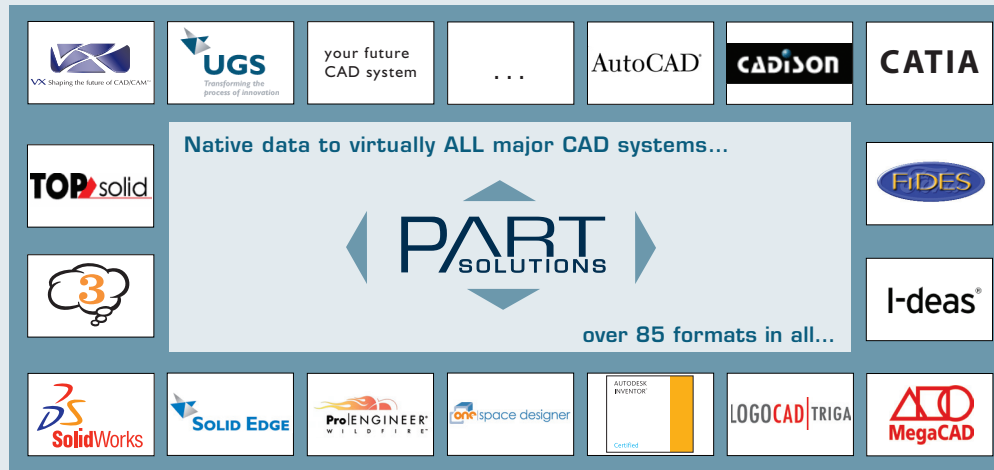
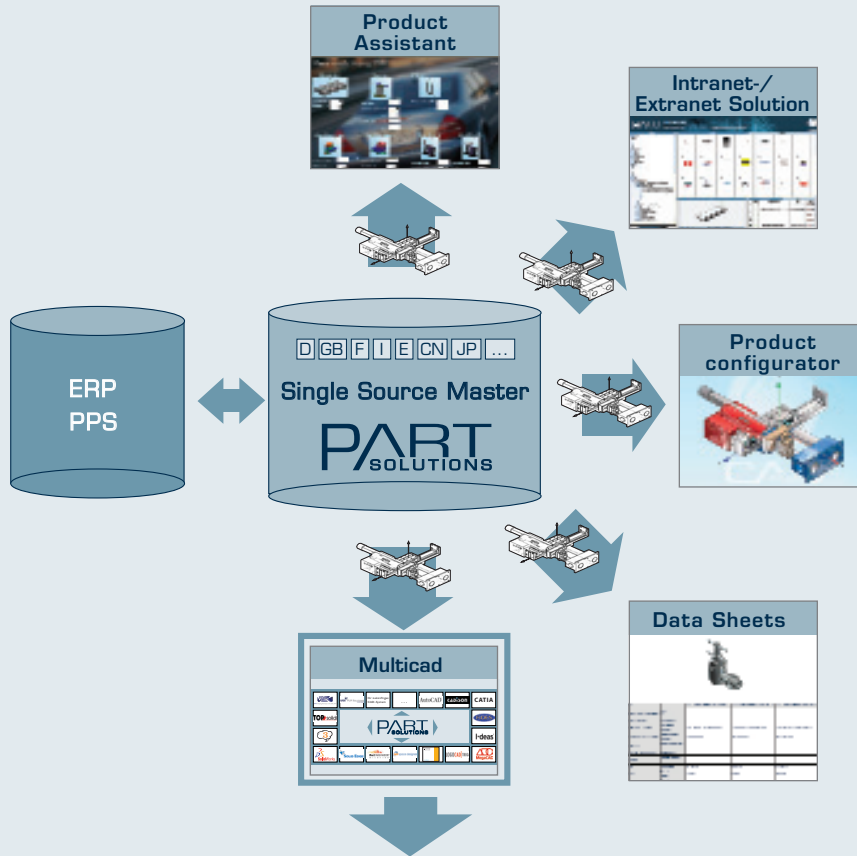
COMPANY STANDARDS (many enterprises have included their company standards into PARTsolutions)



... and many more

ACCESSING AND MANAGING STANDARD/COMMERCIAL PARTS

With PARTsolutions/eCATALOGsolutions you are able to design and manage your company standards. Many different media available from the company standard "single source" database offer the benefit to centrally manage these company standards.



Multi-CAD output is a major benefit of PARTsolutions. Virtually all CAD systems are supported in their native formats. So the intelligent parts management system is unaffected by changes in CAD systems, either from acquisitions, a transition from one CAD system to another, a new vendor with another CAD system, or other scenarios.

“The complexity of creating, administering and distributing technical and geometrical part information is significantly decreased by PARTsolutions.

With eCATALOGsolutions we generate our own standard parts and make them available for all relevant departments. This saves time distributing printed data sheets throughout the company.”

WILHELM RAINER,
MAN ROLAND
DRUCKMASCHINEN AG



PATENT PENDING

GEOMETRIC SIMILARITY SEARCH

"PARTsolutions geometric similarity search is patent pending. It is the technology of the future that brings PARTsolutions customers a great competitive advantage in finding and reusing parts."

FRANK EPPLE,

CTO
PARTSOLUTIONS, LLC

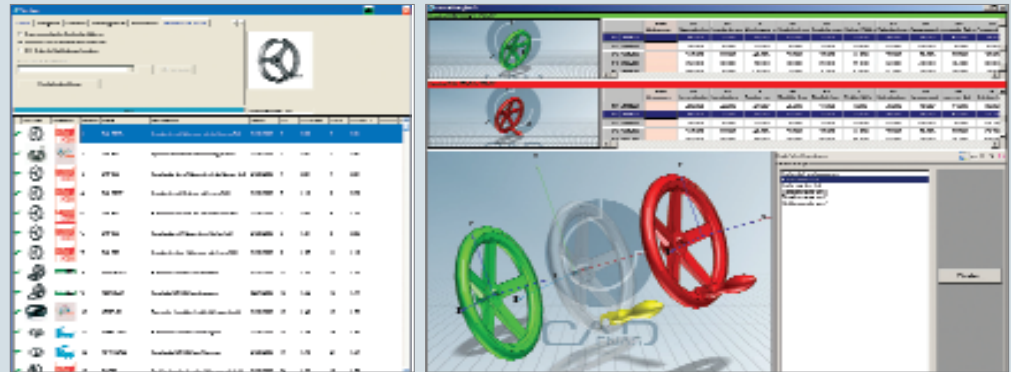


FINDING INSTEAD OF SEARCHING

Extensive search methods help to find the right parts.

SEARCH METHODS:

- ▶ Keyword search (full-text search)
- ▶ Date, versions, topicality
- ▶ Geometric similarity search, Geometrical comparison
- ▶ Comprehensive variables, searching for different units, sizing
- ▶ Default search models, saved search results
- ▶ ERP master data (ID Nr., name, material, price, etc.)
- ▶ Part scan: looking for antiquated parts
- ▶ Direct online search function via the Internet



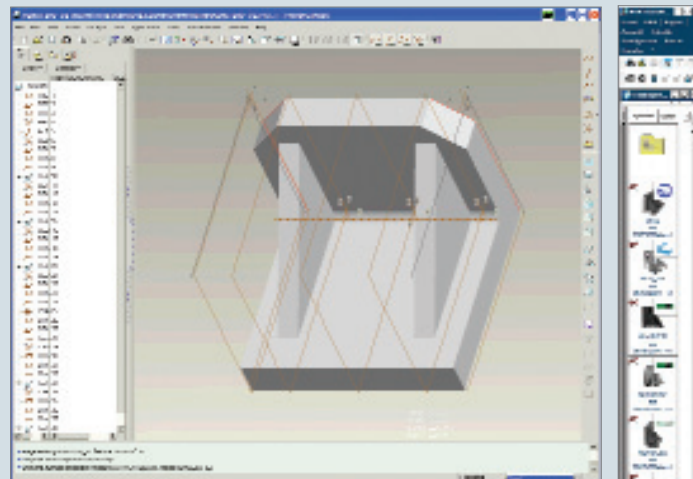
The geometric similarity search can be used with catalog parts, as well as with in-house CAD parts.

A graphical comparison function offers the ability to immediately identify the differences.

GEOMETRIC SEARCH AND COMPARE

PARTsolutions has developed an integrated technology that makes it easy to search multiple parts for geometric similarity. This can compare custom parts, custom parts with supplier parts, or even supplier parts with other supplier parts. This technology is internationally "patent pending".

DYNAMIC GEOMETRIC SIMILARITY CHECK IN THE PRODUCT ENGINEERING PROCESS



Before creating new parts, the existing repository of special and repeated parts can be browsed for similar parts. While designing a new part, the entire geometric data set can be scanned to determine whether there's a supplier part which is similar in appearance or which is already engineered. In this way duplicate work can be prevented and the engineer won't draw or create a part several times.

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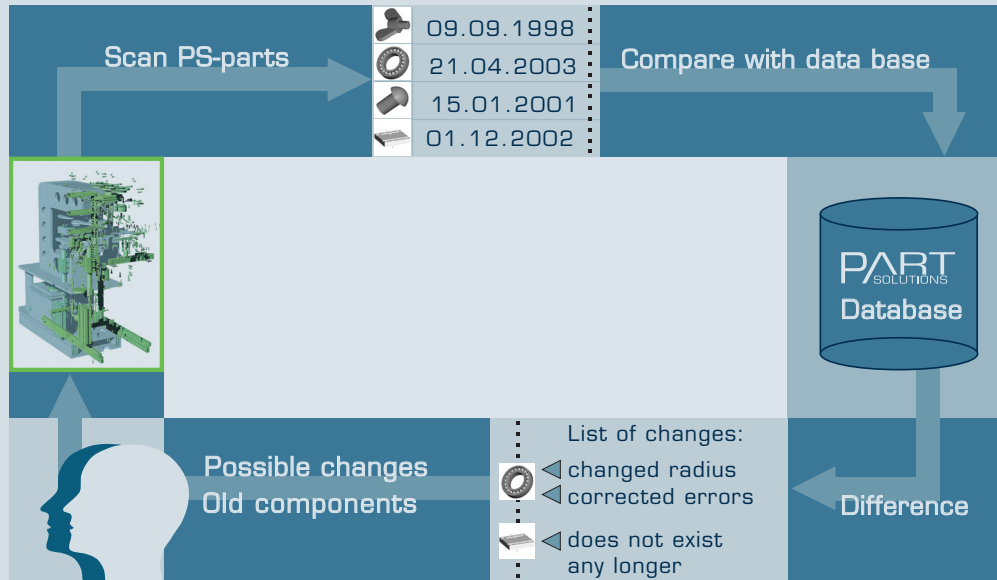
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KEEPING YOUR STANDARD/COMMERCIAL PART DATA CURRENT

REVISION MANAGEMENT OF COMPONENTS - UPDATING OLD AND INVALID COMPONENTS



“WHILE IT’S TRUE THE WHOLE IS GREATER THAN THE SUM OF ITS PARTS, YOU CAN’T MAKE THE WHOLE WITHOUT THE PARTS!”

Pressure of competition and price decline cause individual product developments. That’s why the product complexity and product diversification are increasing. Cost pressure can only be treated by reducing development costs. This is made feasible by standardization and adapted parts.

With PARTsolutions, you optimize your processes and decrease development times and material costs without having to lower your quality expectations!”

The revision management of components offers users the chance to receive change information or end-of-life information via an assistant.

**UWE HOLZHÄUSER,
MENSCH & MASCHINE**

QUALITY AND CHANGE MANAGEMENT OF PART LIBRARIES

mensch+maschine
CAD as CAD can

If there are some changes in the parts libraries, PARTsolutions customers will always be the first ones to be notified about these updates:

The integrated change management technology provides notification about changes, updates, or obsolescence of any part.

REFERENCES

AIRBUS



Product

PARTsolutions / CATIA V5 application in "jigs and tools"

Branch

Aerospace

Highlights/success/benefits

- PARTsolutions application in "jigs and tools"; integration of engineering and component suppliers of AIRBUS Germany
- Suppliers should deliver their product information via eCATALOGsolutions files
- Support of the AIRBUS specific numbering system in CATIA V5



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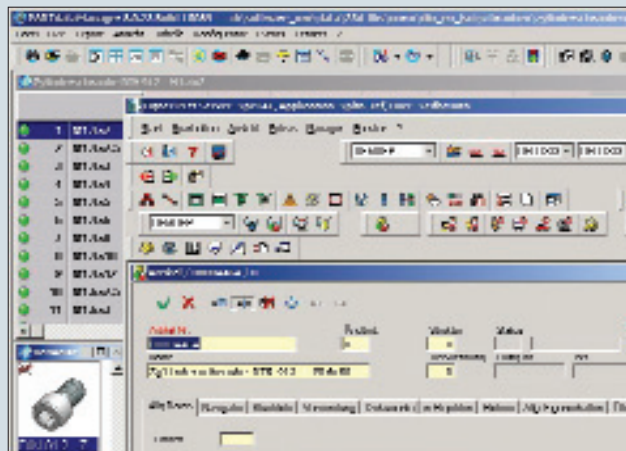
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Product

PARTsolutions / CATIA V5 and Unigraphics, data link to Eigner PLM

Branch

Aerospace -
Drive technology

Highlights/success/benefits

- PARTsolutions in development, workshop facilities engineering and dynamometer engineering
- Support of a multi-CAD environment with CATIA and Unigraphics
- Design of company standards in eCATALOGsolutions files
- Seamless integration into the MTU processes with data link to Eigner PLM and Teamcenter

VOITH

Engineered reliability.



Product

Worldwide application of PARTSolutions parts management system with Inventor/I-deas and SAP data link

Branch

Drive technology
Mechanical engineering
Paper industry

Highlights/success/benefits

- International solution
- Design of company standards in eCATALOGsolutions files
- Integration in SAP MM and SAP PLM
- Data linking of all important engineering process systems
- Integration of suppliers via web solution



KÄSSBOHRER GELÄNDEFahrZEUG AG



Product

Intelligent parts management system PARTSolutions with SolidEdge

Branch

Commercial auto

Highlights/success/benefits

- Integration of master data and article numbers
- Display of part states
- Time of project: Beginning from conception to roll-out, less than 4 weeks
- PARTSolutions as leading system for standard parts and components

SUCCESS VIDEO

OLAF SPITZER, VOITH PAPER
GMBH & Co.KG

VOITH

Engineered reliability.



Since Voith implemented PARTSolutions for enterprise parts management, suppliers whose product catalogs are created with PARTSolutions meet a critical requirement for supplier selection.



BUSINESS AREAS OF PARTSOLUTIONS:

INTELLIGENT PARTS MANAGEMENT

- + Standard and purchased parts
- + Company standard and repeated orders
- + EDM and ERP links
- + Product selection and configuration
- + Reduction in active part revisions
- + Geometric based alternative search

ELECTRONIC PRODUCT CATALOG

- + Product selection and configuration
- + Crossmedia Publishing (CD, WWW, PRINT)
- + Lean Sales Management

INTELLIGENT PART CONSOLIDATION

- + Comparison/reuse
- + Standardization
- + Classification/clustering
- + Reduction
- + Consolidation

TECHNICAL DOCUMENTATION

- + Replacement part management
- + Interactive repair procedures
- + Lean Service/CRM



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