EXALEAD ONEPART
Find and reuse existing parts, 2D/3D designs and related documentation, and reduce duplicates

EXALEAD OnePart is a business discovery application that accelerates reuse of parts, designs, specifications, standards, test results and related data for engineering and manufacturing activities. Leveraging the proven Web semantics, analytics, mashup, and Big Data management technologies of EXALEAD CloudView™, OnePart locates information from multiple sources and makes it available instantly.

An innovative, intuitive way to boost new product development and productivity by reusing legacy information assets

Speed new product development and productivity

TODAY'S BUSINESS CHALLENGES

Designers and engineers regularly make critical decisions that can introduce significant costs into your company. **Engineers are designing more and more new parts** every day. Why don't they just find and reuse similar or equivalent parts that already exist inside your company's legacy data assets? Because searching for parts is very time-consuming and potentially error-prone today.

Without an ultra-efficient tool to rapidly find and compare similar parts hidden inside data sources and silos scattered throughout the company, design engineers simply choose to recreate the part rather than spend unproductive time searching. Although they may not realize it, **creating new parts impacts the bottom line**. Substantial time and costs are incurred if you need to acquire or produce new parts, leading to more production procedures, quality controls, and inventory to stock.

THE SOLUTION

With EXALEAD OnePart, engineers, managers, technicians, and procurement specialists can quickly and easily find and reuse existing parts, product designs and other related information located anywhere inside the organization, even beyond obvious PDM and PLM repositories.
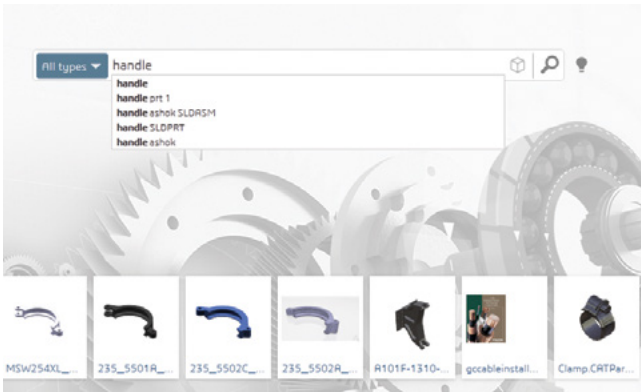
The result: **optimized reuse of parts**, designs and related documentation, thus accelerating product development and delivery and decreasing design, material, manufacturing, and storage costs while increasing revenue.
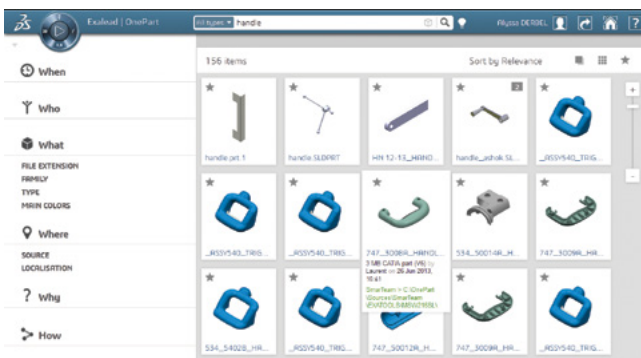
HOW DOES IT WORK?

OnePart helps designers and engineers find a reusable part **at the speed of thought** so that they can determine whether it is really necessary to create new parts and incur the associated costs. With just a few clicks, users can explore legacy parts and related 2D/3D designs, gaining immediate insight into vast amounts of previously hidden data. They can further refine their search using side-by-side comparisons to identify the right part. When a similar part is discovered, the user can also analyze important related documentation like specifications, testing, validation, and certification material in multiple formats (such as .xls & .pdf) to facilitate optimal reuse and a complete view of the situation.
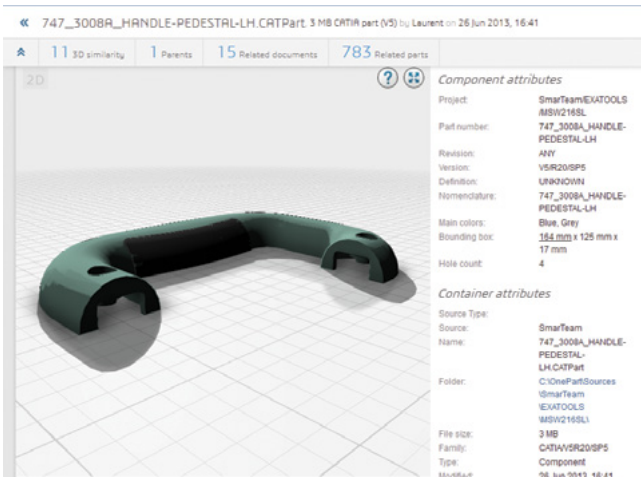
KEY CAPABILITIES

- Search for parts, assemblies, drawings, documents, images in **more than 200 formats**
- **Access** to many different data sources: File systems, SOLIDWORKS Enterprise PDM, ENOVIA SmarTeam, ENOVIA Designer Central, and other PDMs, ERPs and databases
- **Full-text search** with auto-completion of user queries, advanced search, plus dynamic and disjunctive faceted search
- **3D mechanical feature** mining (locating parts based on holes, pads, grooves, and other characteristics)
- **Part discovery through 3D similarity**
- **Analytics view** with clickable, real-time charts allows for unprecedented insight into data
- Automatic **grouping of identical files**
- **User tagging** of parts and documents, for easy retrieval and lightweight workflow
- **Multi-lingual** user interface in English, French and German
- Declarative, audited **security mechanisms** ensure that users only see content they are entitled to see
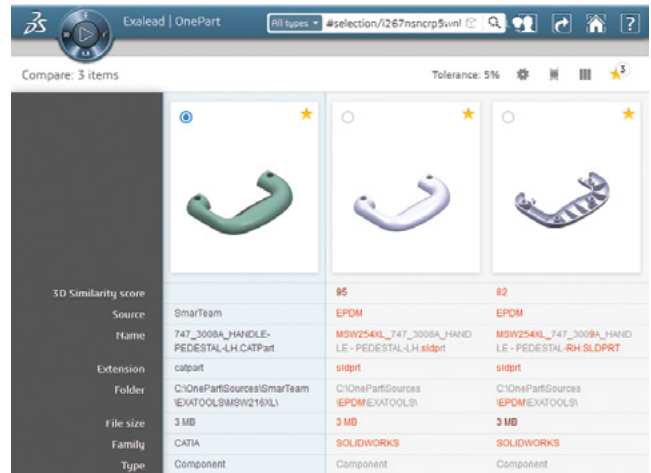
Full-text search with auto-completion of user queries

In-Context Information Access and immediate visualization, regardless of format or location. **Faceted Navigation** to accelerate find and discovery actions

Deep Data Search on any 2D/3D part or assembly via powerful viewing capabilities

Side-by-Side Part Comparison based on metadata and shape similarity, with color coded highlight of differences, user choice of reference parts, and multiple criteria sorting

CUSTOMER BENEFITS

- Reuse 2D/3D assets from legacy data immediately
- Repurpose past designs hidden from view
- Speed ramp-up time for new projects
▶ **Increase Time-to-Market and Agility**

- Leverage past knowledge to enhance products
- Reuse proven and tested designs and parts
- Avoid last-minute design-related issues at launch
▶ **Improve Quality and Decrease Risk**

- Avoid creating duplicate designs and parts
- Increase knowledge worker productivity
- Accelerate downstream release processing and logistics
- Decrease redundant inventory and support
▶ **Lower Costs and Free Up Working Capital**

"EXALEAD is a game-changing tool for us to be able to prioritize, quickly search and reuse our existing design database using all attributes of the part including the 3D model metadata. EXALEAD allows us to leverage our investment in 3D design and reduce our overall engineering costs and timing for custom design."

Chris Weiss
Vice President of Engineering
The Knapheide Manufacturing Company

REVEAL
HIDDEN ASSETS
REUSE
LEGACY PARTS
REDUCE
DUPLICATE PARTS

GOING ONE STEP FURTHER: ONEPART REDUCE

EXALEAD OnePart Reduce introduces **a new way to work**, focused on **classifying and deduplicating existing parts**, thus decreasing legacy parts, simplifying the system, and cutting unnecessary costs tied up in stock.

- **Classification:** From the entire legacy universe, quality and method engineers are able to build unique categories of parts. This categorization is made up of part families and sub-families. A single representative part enables the propagation of the information across all the similar parts in the family. Thus all parts inherit the family name. Classification of parts by family facilitates part searching using OnePart.

- **Deduplication:** Once all the parts in the family are classified, specific parts can be tagged as either the master, alternate, or obsolete. The result is propagated into OnePart and the **3D**EXPERIENCE platform for reuse, and can be easily sent to the PDM and ERP systems for efficient stock management. Obsolete and duplicate parts can be removed from the system, avoiding the intensive manual effort required in the past.

With OnePart Reduce, the part decision-making process is smoother because parts can be better managed in the future, saving time and money.

EXALEAD ONEPART REDUCE HELPS:

- Identify and reduce duplicate parts at scale
- Simplify clustering of parts for Procurement departments
- Free up working capital

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