EXALEAD ONEPART REUSE
FIND AND REUSE EXISTING PARTS, 2D/3D DESIGNS AND RELATED DOCUMENTATION

Sourcing & Standardization Intelligence applications on the **3D**EXPERIENCE® platform help companies justify their decisions to make, reuse or buy product parts. Leveraging the proven Web semantics, analytics, mashup, and indexing technologies of EXALEAD, the applications locate information from multiple sources and make it available instantly.

EXALEAD OnePart Reuse is a business discovery application that accelerates reuse of parts, designs, specifications, standards, test results and related data for engineering and manufacturing activities.

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

New product introduction is an iterative process. From design to manufacturing, each step introduces significant costs into your company. Because searching for parts is very time-consuming and the results may lack the quality and/or depth of information required to make decisions, **engineers are designing more and more new parts** every day. Why can't they find and reuse similar or equivalent parts that already exist inside your company's legacy data assets?

One of the most significant barriers to identifying and reusing standard parts is the persistence of multi-PDM/PLM/CAD environments and the **data silos** they produce. Other barriers include the inability to access business systems, information hidden behind security roadblocks, poor data quality, user-unfriendly interfaces, and more.

Without an ultra-efficient tool 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, **recreating new parts impacts downstream processes and company costs**. Substantial time and costs are incurred in producing or acquiring new parts, leading to more production procedures, quality controls, and inventory to stock.

THE SOLUTION

With EXALEAD OnePart Reuse, engineers, managers, technicians, and procurement specialists can quickly and easily find and reuse existing parts, product designs and other related relevant information **located anywhere** inside the organization, even beyond obvious PDM and PLM repositories. Quite simply, it provides a new dynamic, making reuse faster and easier than creating a new part.

The result: **optimized reuse of parts**, designs and related documentation in line with the company standardization policy, thus accelerating product development and delivery and decreasing design, material, manufacturing, and storage costs while increasing revenue.
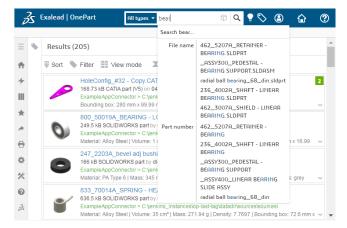
HOW DOES IT WORK?

The intuitive, Web-like interface and superior indexing capabilities of OnePart Reuse make it easy for designers and engineers to find existing parts **instantly** so they can decide whether to reuse. With just a few clicks, users can explore legacy parts, technical and business information and related 2D/3D designs, gaining immediate insight into a vast amount of previously hidden data. They can further refine their search using side-by-side, semantic and shape comparisons to **identify the right part**. To get a complete view of the situation, the user can drill down and navigate into important related documentation like specifications, testing, validation, and certification material in multiple formats (such as .xls & .pdf). And any file modifications that occur in authoring tools get automatically updated.

Preferred Part Consumer helps designers and engineers rapidly find a reusable part so they can determine whether it is really necessary to create new parts and incur the associated costs.
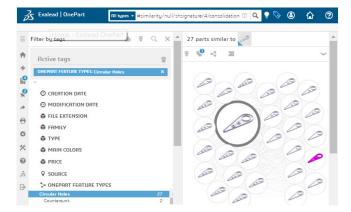
KEY CAPABILITIES

As the Preferred Part Consumer (S1X) role on the **3D**EXPERIENCE platform, the OnePart Reuse application provides:
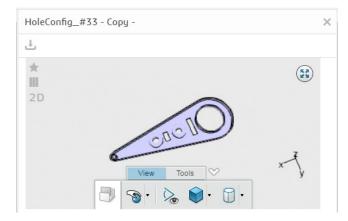
- Search for parts, assemblies, drawings, documents, images in **more than 200 formats**
- **Access** to different data sources: File systems, SOLIDWORKS PDM Professional, ENOVIA **3D**EXPERIENCE, ENOVIA Designer Central, and other PDMs, ERPs and databases
- **Full-text search** with auto-completion of user queries, advanced search, plus dynamic and disjunctive faceted filtering
- **3D mechanical feature** mining (locating parts based on holes, slots, grooves, and more)
- Part discovery through **3D shape analysis** or CAD file upload
- **Analytics** with clickable, real-time charts for unprecedented insight into data
  - **Multiple viewing options**, such as shape similarity, side-by-side compare, list and table
  - **Part details** including parent/child relationships, 360-degree view and all attributes
- **User tagging** for easy retrieval and lightweight workflow
- **Multi-lingual** user interface in Chinese, English, French, German, Korean and Japanese
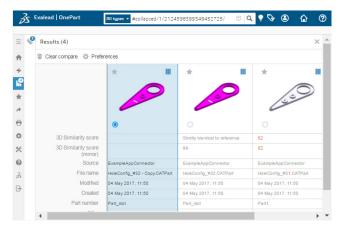- **Easy administration**: audited security mechanisms, add and scan sources

Search from a single full-text search bar includes auto-completion, wild card, spell check, multi-suggest

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 plus a powerful 3D part viewer

Side-by-Side Part Comparison based on attributes and shape similarity, with color coded differences and multiple criteria sorting

CUSTOMER BENEFITS

- Quickly identify existing alternative parts
- Reuse 2D/3D assets from legacy data immediately
- Repurpose past designs hidden from view
- Speed ramp-up time for new projects
- ▶ **Increase new product development agility to speed time-to-market and have more time for innovation; and decrease duplicate part proliferation to cut costs**

- Leverage past knowledge to enhance products
- Reuse proven and qualified designs and parts
- Make decisions based on part's related documentation
- ▶ **Improve quality and decrease risk for enhanced customer satisfaction**

- Avoid creating duplicate designs and parts
- Decrease redundant inventory and support
- Leverage past design sourcing information to optimize new ordering
- ▶ **Lower costs and free up working capital for smarter investments**

"Thanks to EXALEAD OnePart, we've realized a **75% reduction** in duplicate parts and expect this to improve as more of our engineers get acquainted with this application."

**John Winter
Mechanical Engineering Manager
Bird Technologies**

AUTOMATE
STANDARDIZATION
OPTIMIZE
SOURCING
ENFORCE
REUSE

GOING ONE STEP FURTHER

To facilitate make, reuse or buy decisions, we recommend the full suite of Sourcing & Standardization Intelligence solutions:

The Standard Part Analyst (X1R) role on the **3D**EXPERIENCE platform and suitable for librarians and complexity managers, the **EXALEAD OnePart Reduce** application 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.
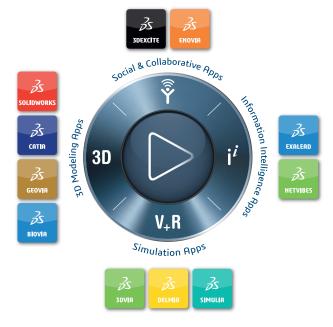
ONEPART REDUCE HELPS:

- Identify and reduce duplicate parts at scale
- Simplify clustering of parts for Procurement departments
- Share and adhere to company standardization policy

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