3DEXPERIENCE®

ONEPART
FOR ENGINEERING
AEROSPACE & DEFENSE

THE SOLUTION

EXALEAD OnePart is a business discovery application that accelerates reuse of parts, leveraging past designs, specifications, standards, test results, costing, and related documentation - helping engineers gain rapid visibility into information hidden anywhere inside the organization.

Let's look at an example of a design engineer.

MY ROLE

I am a **design engineer** at a leading aerospace industry supplier where my primary responsibility is mechanical design and engineering using CAD tools. I work on a variety of different programs, interacting with colleagues located across multiple sites around the world.

My company designs and manufactures high-volume standard parts (fasteners, brackets, clips, piping, etc.) used throughout an aircraft. These parts, using different materials depending on specifications, are designed using various CAD programs, with data residing in multiple sources across the enterprise. Our solid business growth makes delivering customer orders on time and on budget increasingly complex.

MY GOAL

Starting all of my assignments by **quickly checking to see if similar or exact parts already exist** somewhere inside the company.

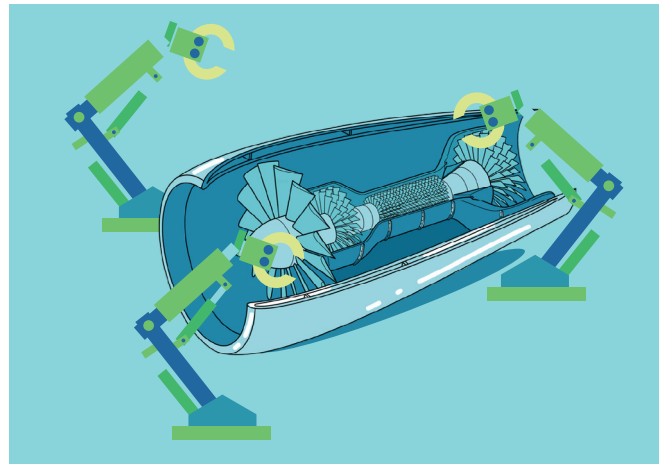Identifying **master parts for wider reuse and standardization** purposes.

- Tagging master parts is critical for design reuse, eliminating duplicates, and helping Procurement drive volume pricing with suppliers.

- Finding parts based on key status criteria (for example: work in progress, quarantine, obsolete, duplicate, etc.) strengthens global coordination and knowledge sharing to lower release risks and reduce costs.

Focusing more capacity on design innovation and less on recreating redundant parts.

- Quick and efficient access to the company's accumulated legacy IP accelerates part reuse and capitalizes on the past to inspire future designs.

- Connecting a part's 3D shape with all associated metadata and related documentation can drive innovation and make better reuse decisions possible.

MY OPTIONS

- Create new parts from scratch: While I can do this quickly, it leads to costly and time-consuming work downstream for testing, stress validation, quality assurance, manufacturing, and storage

- Search company files, CAD, PDM, ERP systems: Searching these systems individually could yield what I'm looking for, but they're not easily accessible and I'd need to search each one for all files related to the part

- Contact other colleagues: It is unlikely that my colleagues know where to find a similar part, or they may have been hired after the part was produced, or may have retired from the company

WHAT I REALLY NEED

A high-performing part reuse solution - locating assets based on geometry, associated metadata, and related documentation quickly, efficiently, and accurately.

ONEPART CAN HELP MY COMPANY:

- **Avoid** costs associated with duplicate part creation and release risk

- **Complete** programs quicker and at lower cost

- **Free** engineering capacity to drive more innovation

- **Leverage** valuable IP and knowledge locked inside legacy systems

- **Increase** competiveness and continuous improvement

HOW IT MAKES MY JOB BETTER:

- Full access to multi-CAD/multi-source reusable assets means less time recreating, more time innovating

- Dramatic increase in productivity and efficiency

- Accurate decision-making via side-by-side comparison of parts with all relevant data

- Identification of master parts for reuse, collaboration and standardization

- Greater reuse confidence thanks to unique capability to search based on 3D shape and related metadata in one user-friendly solution

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Our **3D**EXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3D**EXPERIENCE® Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 190,000 customers of all sizes in all industries in more than 140 countries. For more information, visit **www.3ds.com**.

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