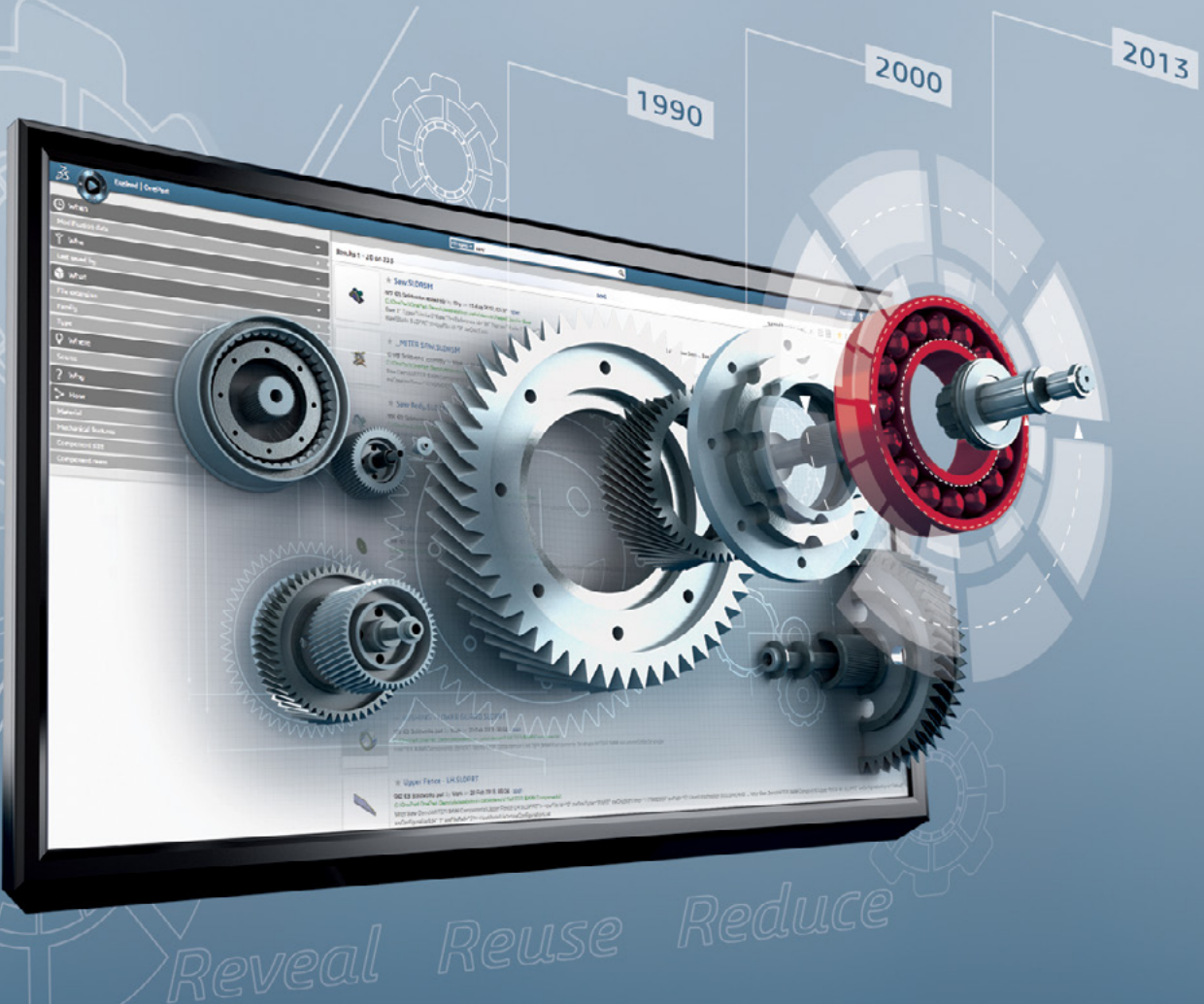# ONEPART
FOR ENGINEERING
INDUSTRIAL EQUIPMENT

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 senior product engineer.

MY ROLE

I am a **senior product engineer** at a leading supplier of industrial machinery serving the packaging industry. My primary responsibility at the company is mechanical product design and development using CAD tools. I work as part of a larger team with colleagues located across multiple sites in several different geographies.

MY GOAL

Our company is creating a new machine for the corrugated box industry. The company has set an aggressive product cost target and expects final engineering release of the product to manufacturing in less than 6 months. In order to achieve these ambitious goals and ensure required product quality, my manager has instructed all teams to **maximize the reuse of standard parts and components** from across the enterprise.

Redesigning each new part is highly inefficient and time consuming and should be kept to an absolute minimum. Knowledge sharing and reuse of existing assets has been a problem at the company in the past – mainly given the multi-site setup and **legacy data silos** spread across the enterprise. Any means that speed up information sharing, social collaboration and design reuse will make my job easier and bring significant value to the project and company.

My specific engineering tasks during the project are to **deliver roller and bearing designs** for the new machine, and meet company reuse objectives. With engineering responsibility for over 200 parts inside the new machine design, I need to find a useful solution quickly.

MY DESIGN OPTIONS

- Create new parts from scratch: *While I can do this quickly, it creates costly and time-consuming work downstream for testing, manufacturing, and storage*

- 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*

- Search company files, CAD, PDM, ERP systems and eDoc collaboration tools: *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*

WHAT DO I REALLY NEED?

EXALEAD OnePart is a user-friendly and high-performing application containing all legacy design data, parts, and related documentation hidden inside company systems.

ONEPART CAN HELP ME:

- Discover reusable designs based on multi-CAD formats
- Gain full access to multi-source data from across the enterprise
- Realize deep data search on any 2D/3D part or assembly via powerful viewing capabilities
- Utilize full-text search with auto-completion of my queries
- Leverage dynamic faceted navigation to accelerate rapid discovery
- Mine 3D mechanical features locating parts based on characteristics that I define
- Compare parts side-by-side based on metadata and 3D shape similarity
- Navigate Parent/Child relationships for deeper analysis and discovery
- Tag/save designs and parts for collaboration and reuse

HOW DOES IT MAKE MY JOB BETTER?

- Simple and intuitive for everyday use
- Quick to deploy and configure (no training required)
- Time savings and efficiency gains – I can actually find assets very quickly
- Efficient data categorization based on the way the company operates
- Advanced knowledge on quality and release status of all parts under review
- Frees up time to focus on complex innovative design work
- Helps in achieving product cost and schedule target
- Provides reuse confidence thanks the ability to search existing systems via both 3D shape and related metadata

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