

Locate your digital assets using Al-powered visual search technology



# Background

- Ships and other big machinery are constructed from hundreds of thousands of parts
- The parts are either designed and manufactured or sourced and purchased through processes that are often disjointed
- Before making a purchase, engineers must perform extensive research to identify parts that meet the ship design requirements







## The Problem

- The same parts may have been used in multiple areas of a ship, or even on other vessels, but the design engineer does not have visibility to this information
- Inability to search through large siloed data repositories and libraries due to inadequate search tools
- A wide variety of file types and formats exist (3D models, 2D drawings, images, PDFs & text)



- Wasted time spent sourcing parts
- Logistics and financial loss in creating, storing and managing duplicate parts





# Objective

#### Integrate visual search to...

- Reduce the amount of time it takes for engineers to research, identify, select and purchase parts
- Reduce the amount of labor associated with creating a new part
- Reduce the number of duplicate parts
- Provide visibility to approved parts to lower costs throughout the lifecycle of a part
- Improve communication across different sectors of your organization
- Overcome the limitation of text-based search no matter the type of data you are searching for
- Create efficiency in purchasing by grouping parts by shape





## VizSeek is a cross-platform, cross-file-type search engine.

The search input file can be any of these files...





## **Real-time searching**

VizSeek can find parts saved in your catalogs, folders and CAD system with a simple drag and drop of a

visual input such as a photo, PDF, hand sketch, 2D drawing or 3D model.



Search input example (photo)



Best Match - 736a-filter (3D model)





#### Part clustering

With visual search, parts can be clustered into groups based on similar geometry & similar attributes. The software allows the user to specify the amount of contribution for each attribute when clustering, by assigning a weight to each of them.

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#### You can't type a shape.

#### Professionals in the digital age spend 19% of their time looking for or sorting data. That is a lost workday every week for every employee.

Visual search technology instantly puts needed files at your fingertips.



Companies that embrace this technology have a significant advantage over their competition and will see an increase in their profit margins almost immediately.



#### Here are some use case examples where visual search can help solve problems



• Improve speed to market

# **BOTZSEEK** Visual Search Engine

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Thank you for your interest!