3DSearchIT ®
A **Geometric** Product

A unique tool for quick and efficient search for 3D models based on shape and textual attribute

Manually locating CAD parts is a time consuming effort and slows down the decision making process. 3DSearchIT is a geometry (shape) based search tool which allows optimal reuse of existing knowledge bases to dramatically reduce time-to-market and improve cost efficiencies.

Knowledge and information reuse are vital elements to maintain the competitive edge and ensure business success. 3D models are being increasingly used by engineering enterprises as the basis of their design and engineering activities. Engineers spend approximately 30% of their time searching for appropriate 3D information. Traditional text based document search schemes are not effective for classification, search, and reuse of 3D data. A search tool that locates similar parts and allows engineers to spend more time creatively is much needed. An effective tool contributes significantly in reducing costs and time-to-market.
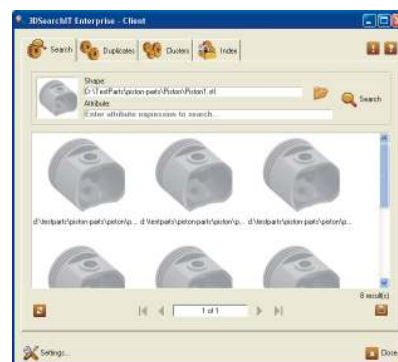
3DSearchIT

3DSearchIT is a patent pending shape geometry based search engine, which allows users to instantly locate CAD files based on 3D shape criteria, unlike conventional search engines which rely only on text based attributes. The technology can work with any 3D CAD format.

By representing raw 3D data, 3DSearchIT technology provides an efficient tool for 3D information retrieval and reuse at just about any scale. It can be integrated with any PDM system, and its web-based part catalogs provide the ability to reuse existing product data.

Benefits

- Design reuse
- Part standardization
- Improved part management
- Effective vendor management
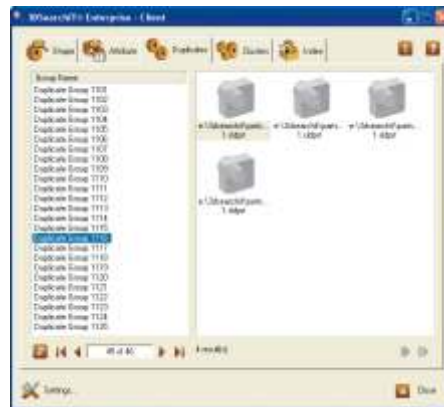- Reliable manufacturing plan
- Quick response to RFQs

Shape-based search

Attribute-based search

Features

- Shape/ geometry-based indexing and searching of 3D data
- Search based on attributes in CAD document
- Independent of CAD file formats
- Supports automatic crawling and indexing in local machine/ network
- Automatic visualization of clusters of similar models
- User enabled search preferences and display of results
- Platform flexibility and ability to be deployed over PDM systems, CAD modelers, standalone application or web-based servers

Duplicate groups identified by 3DSearchIT

Clusters identified by 3DSearchIT

Contact us

Plant 6 Pirojshanagar Vikhroli (West)
Mumbai 400079 India
T: +91.22.67056880 F: +91.22.67056891

About Geometric

Geometric is a specialist in the domain of engineering solutions, services and technologies. Its Desktop Products and Technologies (DPT) business unit develops cutting-edge point productivity solutions that enhance design and improve manufacturing operations. The unit includes Phoenix AZ based business subsidiary, Geometric Technologies, Inc., formerly TekSoft, Inc., which has over 25 years in progressive product innovation. It develops and markets CAMWorks®, a SolidWorks® certified Gold CAM product, besides marketing and distributing Geometric's products and technologies.

The end-user products from Geometric include CAMWorks®, eDrawings Publisher, DFMPro and GeomCaliper® and the key technologies are NestLib®, Feature Recognition (FR), GeomDiff and 3DSearchIT®. Geometric licenses these technologies to OEM partners and also designs and implements customized process solutions using these technologies for industrial customers. For further details, please visit **http://3dsearchit.geometricglobal.com**

The copyright/ trademarks of all products referenced herein, are held by their respective companies.

02/2008 © Geometric Ltd.

Geometric

Engineering | PLM | Technology   www.geometricglobal.com