

## Datakit for CAM, CMM & Control vendors

### About Datakit

Datakit was founded in 1994 to develop and promote CAD data exchange solutions and has grown into a world-leading supplier of CAD data exchange technologies used by industrial companies as well as major software vendors worldwide.

It offers standalone converters, plug-ins and Software development kits (SDK) that analyze, heal and export a large number of CAD formats.

Datakit takes into account a wide range of geometrical and semantic data (assemblies, annotations, metadata, PMI...) through its varied range of products.

Datakit has more than 100 active software partners integrating its technology this year.

### Datakit offers a range of services

- **CrossManager**  
StandAlone Software & File-To-File DLLS



- **CrossCad / Plg**  
Plug-ins for Rhino, & SolidWorks



- **CrossCad / Ware**  
Datakit API/SDK  
dtkLib



- Complete CAD **database migration**
- **Counseling and help** for data conversion
- **Specific conversion scripting**

### Contact information

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### Critical native CAD data

**Datakit** has been working for a decade on providing valuable assets for **CAM** purpose. The company is shipping **toolkits** to extract **geometric, machining features** and **Product Manufacturing Information (PMI)**, directly from native **CAD** data : Dassault's **CatiaV5/6™**, **SolidWorks™**, Siemens **NX™**, PTC **Creo™**, **STEP**, without the need of any separate CAD software license.

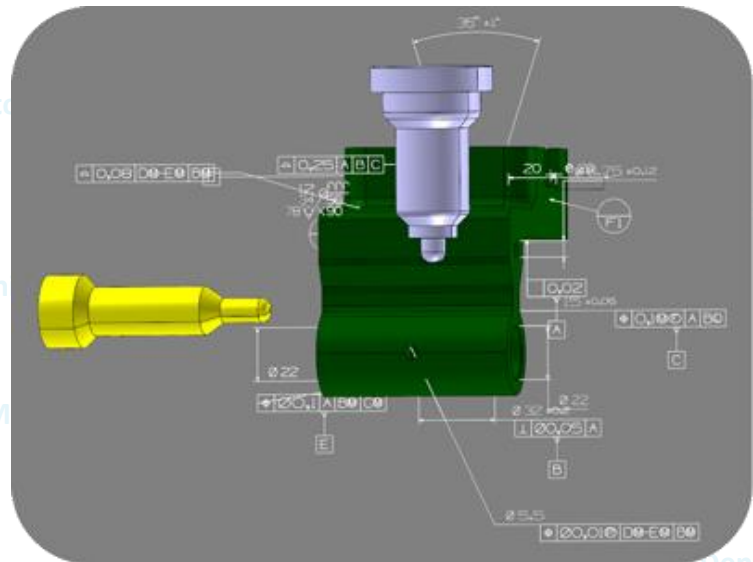
This includes **Hole Machining and Pattern CAD native information**, that can be used to clearly **identify features** directly from the native CAD data. **Datakit SDK** exposes various critical **data for manufacturing**, compared to geometric feature recognition post-process :

- **Hole design numerical values:** positioning, sketch, depths, diameters, angles, direction.
- **Semantic data:** hole type (simple, tapered, counter bored, sunk, drilled etc...), tolerancing (can include standard definition), pitch and thread information.
- Links to sketch, support and generated geometries.
- **Pattern / Toolpath information:** rectangular, circular, user-defined, instances.

### Support of Product Manufacturing Information & tolerancing

In addition to Machining Features, Datakit provides **Product Manufacturing Information (PMI)** through **APIs** designed for both **semantic and rendering** purpose. Valuable **tolerancing, surfacing** and **geometric associativity** are supported for various **PMI** entities :

- **Dimensions:** Linear, Angular, Radial...
- **Geometrical Tolerances:** Flatness, Cylindricity, Surface Profile, Position, Angularity...
- **Roughness and Welding.**



### Support of specific CAM process and manufacturing data

While Datakit is eager to help CAM vendors **import CAD data**, the company is investigating support of specific **CAM Process and Manufacturing** data as well, including :

- Tool Definitions, Tool Paths
- Machining Operations, Strategies and Process.