

# SmartLibrary™ for Creo (Pro/Engineer)

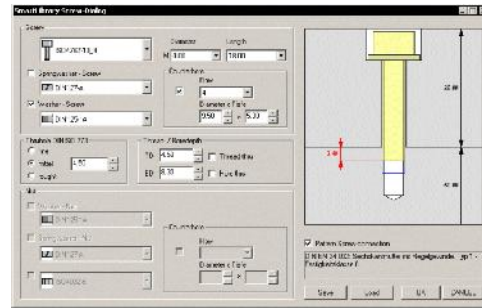
*Radical productivity improvement for your Creo implementation*

## What is SmartLibrary?

SmartLibrary is software developed for Creo that automates all aspects of library component usage, creation and modification. Much more than a mere library of Creo parts and components, SmartLibrary allows you to design up to 10 times faster and eliminate such common design errors as hole misalignments and screw/thread mismatches. In addition SmartLibrary provides a wizard to help you develop, customize and deploy new library parts, assemblies and GUI's, quickly and easily.

## Key Features

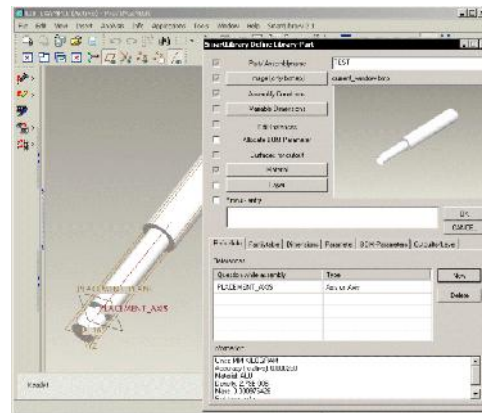
- Automatic creation of all necessary holes, threads and clearance cuts upon library component placement
- Automated component selection/placement
- "Quick-preview" GUI dynamically updates to represent scaled x-sectional view of the library component in assembly before placement
- Standard screws, bolts, nuts, washers, dowel pins, etc. are provided
- Fast and easy custom component creation
- Functionality to automatically create, export and easily customize BOM in assembly mode
- Fully compatible with SmartHolechart
- Extremely short learning curve



Quick-preview GUI displays a real-time x-sectional representation before placement

## How It Works

- Search for components graphically or by parameter info
- Component automatically assembled on points, csys or mouse click
- For standard SmartLibrary components, all holes, threads and clearance cuts are created at the part level using appropriate Creo features (i.e. "hole" feature)
- LibraryWizard allows easy creation of any new component, with its own GUI and image



SmartLibrary's "LibraryWizard" automates creation of library components and GUI's, including automatic image capture

## Key Benefits

- Speed - faster initial design and faster changes – up to 10 times faster than using standard component libraries because clearance cuts, holes and threads are automatically created
- LibraryWizard allows even novices to develop/deploy new library components quickly and easily
- Eliminates errors such as misaligned holes and mismatched screw/thread combinations
- Eliminate repetitive tasks such as creating holes, threads and counterbores for screws
- Promotes standardization of not only components and assemblies, but also clearance cuts, holes and thread information
- Faster regeneration times because Creo features are part level features
- Eliminate misaligned or undersized holes - ensures that proper holes, threads and clearance cuts have been created for the particular component being placed
- Faster drawing creation – because hole dims can be shown automatically – location is only thing controlled at assembly level (top down)
- Tutorials and examples provided with software

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