Solid Edge Standard Parts

Reducing design costs through standardization

Benefits

- Ensure company and industrial standards are met

- Quickly locate standard parts for use in new designs

- Automate common processes for complete digital mockups

- Create assembly designs faster

- Reduce design and purchasing costs

Features

- Integrated standard parts wizard

- Support for user-defined parts

- Optional machinery library

- Optional piping library

Summary

Solid Edge® Standard Parts software is a powerful parts management system that allows designers to define, store, select and position commonly used parts – like fasteners, bearings, structural steel members, pipes and fittings – quickly and efficiently, enabling rapid and precise completion of 3D assemblies. With Solid Edge Standard Parts, companies establish and share their own standards, so designers can concentrate on creative design and not on redundant modeling tasks.

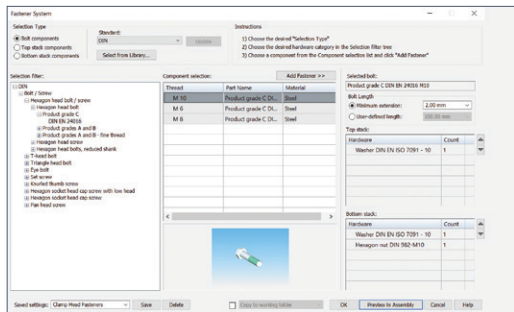## Promotes standardization and quality

Standardized components are utilized in almost every new assembly design and therefore have a direct impact on the time-to-market, cost and quality objectives of an organization. Incorporating company-defined standards for fasteners, structural steel members, pipe fittings and other common components helps to optimize inventory and improve manufacturing workflow, while maximizing the benefits of 3D virtual prototyping. Solid Edge Standard Parts makes component libraries easily accessible, so users can quickly find the right part and effortlessly place them in Solid Edge assemblies.

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Integrated parts wizard

The standard parts wizard is included with Solid Edge, and provides a basic set of components. Designers can use the wizard to populate the library with required components that meet approved company standards, either all at once or while designing. Once defined, components can be quickly located and placed using the same wizard, to speed the creation of assembly designs and help to meet organizational cost and quality objectives. Additional complementary parts libraries are also available for purchase.

How it works

The wizard presents all available parts using an easy-to-navigate classification system that includes both a 3D preview and 2D graphic for each part. Section views, corresponding to international standards, clearly show which parameters – such as bolt length and nominal

diameter – can be selected. The database also uses an intelligent filtering system to show only relevant size combinations. For example, a specific pipe diameter will display only the available fittings for that diameter. Additionally, frequently used parts can be marked as favorites and directly accessed for future placement.

The standard parts wizard is fully integrated with other Solid Edge capabilities for creating 3D digital mockups.
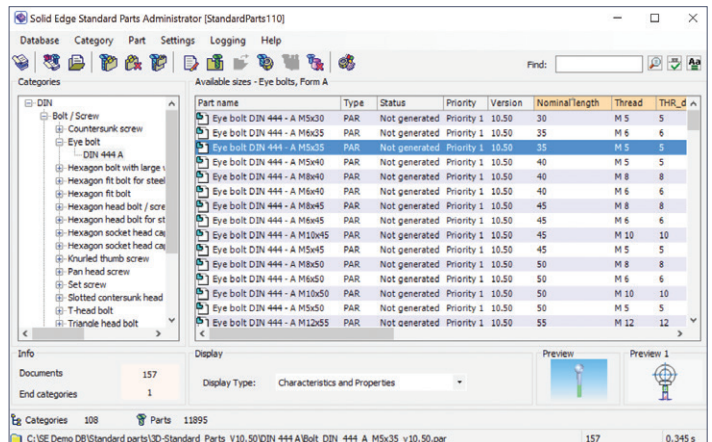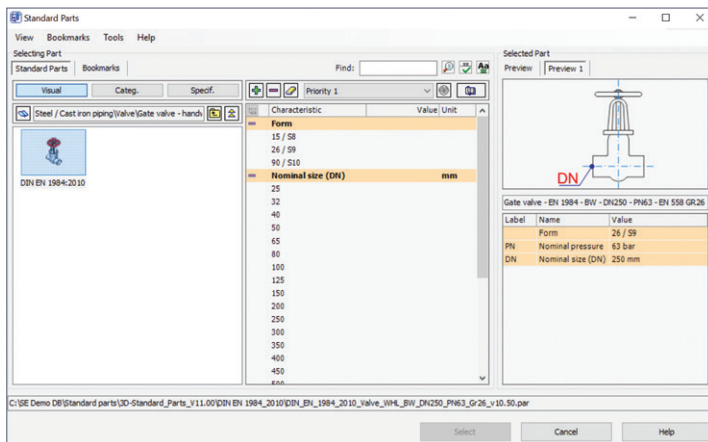
Structural Steel Profiles

Structural Steel Profiles are used in conjunction with powerful Solid Edge functionality for automated frame design.

Solid Edge XpresRoute

In the Solid Edge XpresRoute environment, defined paths can be populated with custom and industry-standard pipes and fittings from the library.

For even greater productivity, Solid Edge exclusive capture fit technology is automatically built into each standard part. Parts contain the intelligence to understand how they should be placed in the assembly, and prompts the user to choose a corresponding part for the mated component.

Optional Solid Edge Machinery and Piping Libraries

In addition to the basic components delivered with Solid Edge, additional libraries are available as optional add-on packages.

Solid Edge Machinery Library

The Solid Edge Machinery Library contains thousands of components, such as fasteners, bearings and pins, that support a growing range of international standards (ANSI, DIN, ISO, IS, UNI, JIS, KS, BS, CSN, CNS, GB and GOST).

Solid Edge Piping Library

The Solid Edge Piping Library contains an extensive selection of standard fittings, including elbows, bends, returns, Ys, tees and reducers, as well as a large collection of essential components such as flanges, unions and seals. Fittings are available in a variety of relevant end treatments, such as threaded, welded, flanged and slip-on.

Each of these libraries helps to ensure that all purchased and standard components conform to engineering and purchasing requirements; in addition, these libraries are continually growing.

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For additional numbers, click here.