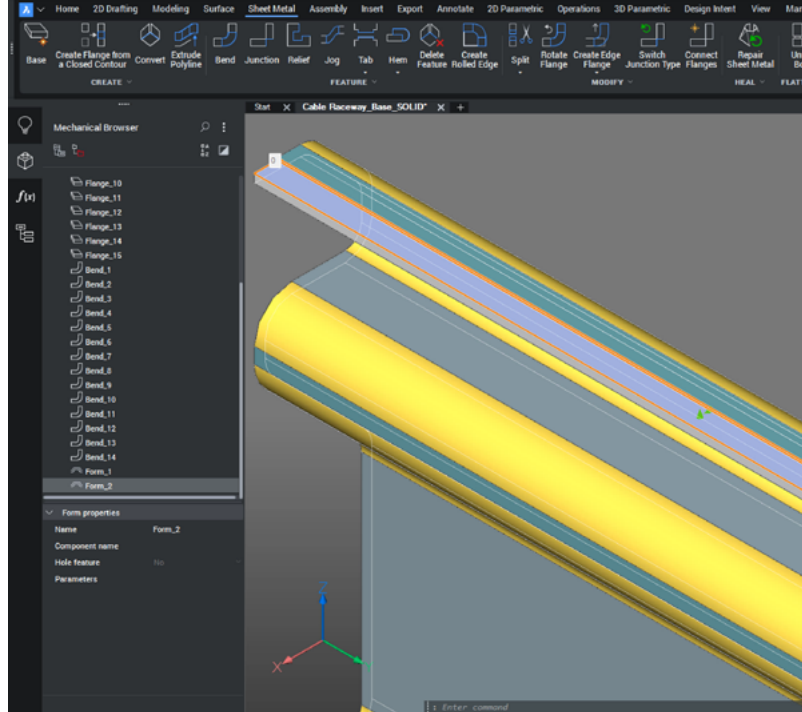


2D & 3D Mechanical CAD to document manufacturing processes

BricsCAD® Mechanical is a DWG-based CAD platform combining drafting, 3D modeling and assemblies, manufacturing process modeling, drawing compliance and validation in one environment to efficiently create production documentation. This product level is ideal for mechanical engineers and manufacturing professionals.



The fastest path to industry compliant production drawings

Compatible with industry-standard DWG

Easily open, edit, and reuse metadata and features in your drawings, such as parts list and references, symbols, and annotations, created in AutoCAD® Mechanical.

Fully associative BOMs

Generate BOM and AutoCAD® Mechanical Part Lists automatically using the Block and Part Reference data.

Create 3D assemblies

Insert and edit parts directly in the assembly with associative BOM, exploded views, and documentation that all stay linked to the model.

Industry standard compliance

Apply mechanical dimensions, symbols and annotations adhering to global manufacturing industry standards (ISO, DIN, JIS, ANSI).

Validate designs

Easy-to-use Design for Manufacturing and Assembly (DFMA) tools that help production professionals optimize their processes. Animate motion, inspect assembly sequences, resolve interferences, validate sheet metal, and run 2D FEA studies.

Parametric standard parts

Work from a library of 30,000 standard mechanical components of 800+ different types, all with customizable parameters.



3D entities to sheet metal

Convert 3D entities to sheet metal automatically with ease. Features can then be manually refined, with a full sheet metal toolset, or changed to quickly achieve your desired form.

Convert 3D models to 2D documentation

A complete assembly documentation workflow toolkit to produce a variety of outputs for various assembly documentation. For example, the 3D to 2D integration features allow non-3D experts to convert 3D models into 2D manuals with annotations.

The screenshot displays the SolidWorks user interface. At the top is the CommandManager ribbon, which includes tabs for Home, Drafting, Modeling, Surface, Mesh, Insert, Export, Annotate, 2D Parametric, and Operations. The Modeling tab is active, showing icons for Box, Polyloft, Cylinder, Sphere, Extrude, Push/Pull, Revolve, Manipulate, Copy, Paste, 3D Rotate, Mirror, Fillet, and Chamfer. Below the ribbon are three main toolbars: PRIMITIVES, CREATE, and MODIFY. The central workspace shows a 3D CAD model of a mechanical assembly, featuring a large blue cylindrical tank connected by red piping to various smaller components and valves. A grey electrical control panel is attached to the side of the tank. On the left side of the interface is the Feature Tree pane, titled "What's new in V2017", listing recent updates such as "New geometry", "New location setup", "New fillet chamfer modification", "Surface patch", "Intelligent 2D sketch area page", "Thin solid bodies", "Three-dimensional wire in 2D profile", "Connections", "Create and edit dynamic blocks", and "New settings dialog". The bottom status bar indicates the current state of the model, showing dimensions like 1000 mm x 1000 mm x 1000 mm.

 *New*  *Enhanced*

Advanced classification of edge features in sheet metal, with adjustable extrusion depth for better recognition.

Edit 2D FEA objects with fewer clicks. View reaction forces, reuse setups, and zoom-highlight for faster analysis.

Smarter commands and advanced UI make power dimensioning faster and more accurate.

Save time with automated chamfer dimensions. Select the chamfer and edges to instantly create two clear linear measurements.

Efficiently apply advanced weld symbols with full property control from a unified panel.

Quickly cycle and locate through parts in drawings, combining zoom and highlight into one efficient command.



ZenTek Consultants
Balancing business and technology



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