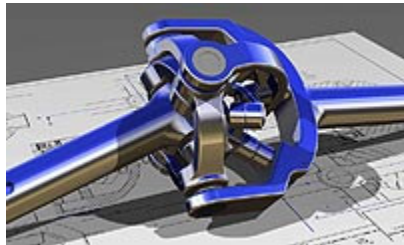




Solid Edge is an industry-leading mechanical design system with exceptional tools for creating and managing 3D digital prototypes.

## Features

- Superior core modeling and **process workflows** that help engineers design more rapidly by modeling parts more efficiently than other CAD systems.
- Solid Edge harnesses the power of **Parasolid**® – the modeling kernel owned and developed by UGS and, at more than a million licensed seats, the de-facto standard for 3D mechanical CAD.



- Highly **innovative parametric modeling** tools allow designers to quickly create basic shapes and easily add common mechanical features like holes, rounds and chamfers, as well as more complex geometry such as draft angles, lofts and helical features.
- And, for designers of more “stylistic” shapes such as those prevalent in consumer products and many other industries, Solid Edge’s revolutionary **Rapid Blue technology** provides shape design tools that have enormous power and flexibility, while remaining easy to implement and use.

- Solid Edge easily **tackles large assembly** models that are fundamental to mechanical design. Solid Edge customers are regularly creating massive assemblies, topping more than 100,000 parts.
- Sheet metal is a core design capability of Solid Edge, with support for the entire design-through-fabrication process. From streamlined modeling commands that are tailored to the unique needs of sheet metal design through **flat pattern development** and the creation of engineering drawings



Solid Edge helps battle design complexity by creating functional 3D **virtual prototypes** that help you optimize and differentiate your designs without having to produce expensive physical prototypes.

- Solid Edge contains an unmatched set of capabilities for the 2D **documentation process**, with excellent drawing layout, detailing, annotation and dimensioning controls that automatically comply with the mechanical drafting standard you select.
- Using **Quicksheet templates** in Solid Edge, you can eliminate repetitive tasks by pre-defining a drawing layout and creating new drawings by simply



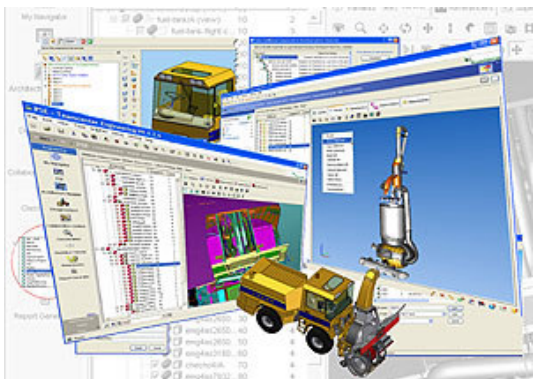
dragging a different part or assembly into the template. All views then re-compute to create the new drawing, including any derived views such as sections or detail view, as well as parts lists and auto balloons.

- **Frame design:** Solid Edge speeds the development of rigid frame structures, beginning with intuitive 3D sketching tools that allow you to quickly define the frame skeleton.
- **Weldments:** A customized command set in Solid Edge accelerates design of weldments. The weldment environment assists in defining the constituent parts of weldments, as well as weld beads, pre-weld surface treatments and machining operations after the welds are applied.
- **Piping and tubing:** Solid Edge [XpresRoute](#) is an integrated add-on package that eases the design of routed systems. A comprehensive set of design tools help designers quickly route and model piping and tubing in Solid Edge assemblies. Designers can easily create a 3D path for the routed components to follow and the tube or piping system is created along the path segments, using specified attributes such as size, color, extents and end treatments. For piping systems, 3D pipes, fittings and components are automatically positioned and correctly oriented upon population
- **Wiring and cabling:** Solid Edge [XpresRoute](#) also supports the routing and creation of cable and wiring systems. After creating the 3D path, using the same tools available for tubing and piping, the designer can select different connect points on the path segments to define single wires, cables (multiple wires making up a single cable, such as with coaxial) and trunk wires (independent wires that merge into common segments).
- **Standard parts:** [Solid Edge Standard Parts](#) is a powerful parts management system that allows designers to define, store, select and position commonly used parts – like fasteners, bearings, pipe fittings and structural steel members – quickly and efficiently, enabling rapid and precise completion of 3D assemblies.

**Photorealistic and artistic rendering:** [Virtual Studio+](#) is an optional, add-on package that sets a new bar for photorealistic rendering capability and performance. Virtual Studio+ extends the Virtual Studio environment that is delivered with every copy of Solid Edge, adding a huge selection of material libraries, backgrounds and foregrounds, textures, scenery and light sources. Virtual Studio+ also includes unique artistic rendering for creating a pencil drawn, cartoon, or black and white shaded looks, offering Solid Edge customers a full range of rendering options for concept reviews right through to promotional materials.

- **Mold design:** The [Solid Edge Mold Tooling](#) application provides a powerful automated workflow that makes it fast and easy to design plastic injection molds. With standard component libraries and capabilities to support the design of multi-core, multi-cavity plastic injection molds of unlimited size, including complex 3-plate and stripper-plate molds

**Solid Edge is the CAD component of the new UGS Velocity Series**, the industry's first comprehensive, pre-configured portfolio of digital product design, analysis and data management software. By implementing the complete [UGS Velocity Series](#), customers can take advantage of single-source support as they reap the benefits of a fully integrated and managed design discipline



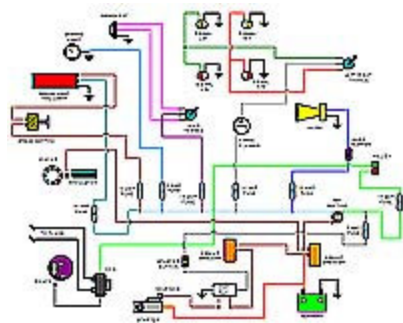
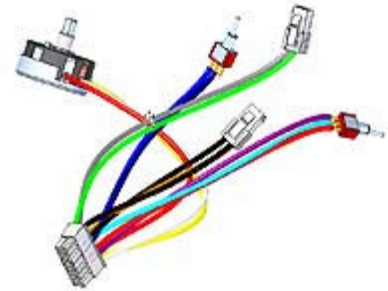
**Teamcenter Express** : A new, tight integration with Teamcenter, the defacto standard in cPDM, is now available with Solid Edge Version 18, giving customers a choice of scalable cPDM solutions. Setting a new standard for tight integration, transparency and breadth of commands covered, no other solution will match this level of close and cooperative integration. While Solid Edge Insight continues to offer proven management capabilities for single-site,

departmental teams with basic workflow needs, Teamcenter Express provides more sophisticated pre-configured workflow capabilities for multiCAD, multisite implementations at companies implementing a more complete PLM solution. These new capabilities deliver a groundbreaking PDM user experience, modeled on the success of Solid Edge Insight. Now customers with varying needs can take advantage of single-vendor support for both CAD and PDM.

**FEMAP Express** :Created specifically for design engineers, Femap Express provides pre-configured, best practice, process guidance to the user for simple finite element analysis. Femap Express uses the included, industry standard NX Nastran, to solve two main analysis types -- 'Static' where stress, safety factor and deflection can be analyzed and 'Modal' to find the natural frequency of components.



**Wire Harness Design** : Wire Harness design package is equipped with a full suite of tools that allow manual intervention for wire creation, quick editing of the automated process and allows convenient harness design, to those without access to electrical wiring and design packages.



**Diagramming** : Solid Edge Version 18 introduces new diagramming capabilities, using industry-standard Blocks (also referred to as symbols) to automate the creation of basic electrical and P&ID diagrams in Solid Edge, without the need for a complete schematics system. Users simply drag and drop Blocks into Solid Edge 'on the fly' and then 'connect' them with dedicated connectors using any standard key-point.

**Electrode Design** :Solid Edge will create a solid model of the electrode, using pre-defined parameters to adjust for the spark gap. Electrodes are created for the rough, semi-finish and finish stages of manufacture, and all remain associative to the original mold design so any changes will be automatically recognized and the electrodes will update accordingly



## **International Customer success with specific industry**

### **Consumer Industry**

- [Bardou Consulting](#) - Xprezo Cycles
- [BEHA ELEKTRO AS](#) - Heating equipment
- [Fin-el](#) - Automotive
- [I-Bus of Maxwell Technologies](#) - PC's
- [Matsushita Refrigeration Company](#) - Refrigeration products manufacturing
- [Med-Eng Systems Inc.](#) - Personal protection
- [SEB](#) - Household consumer products
- [The Hinckley Company](#) - Elegant - highly engineered sailboats and powerboats
- [Traco](#) - Windows
- [Gustavsberg Vårgårda Armatur](#) - Bathroom products
- [Densitron Technologies](#) - Multi-media
- [Harrier Cars Ltd.](#) - Automotive
- [K&K Tool, Ltd.](#) - Mold Design and Manufacturing
- [Pella Corporation](#) - Windows
- [The Fountainhead Group](#) - Agriculture
- [Wood Stone Corporation](#) - Oven designer

### **Machinery segment**

- [A.J. Antunes](#) - Saves time with Solid Edge data management
- [Baxi S.p.A](#) - Appliances / HVAC industries
- [Brückner Maschinenbau](#) - Consumer product package
- [Dayton Systems Group Inc.](#) - Canning industry
- [Gem City Engineering](#) - Precision robotics
- [Kaeser Kompressoren](#) - Compressors
- [MacDon Industries](#) - Agricultural equipment
- [PCM Pompes](#) - Pump industry
- [R.A.Jones](#) - Packaging industry
- [Seats Inc.](#) - Custom industrial seats
- [Silicon Tech Ltd.](#) - Machining
- [USSC Group Inc.](#) - Seating
- [Anglo Platinum](#) - Mining industry
- [Benthos Inc.](#) - Anti-terrorism Equipment
- [Budde Sheet Metal Works Inc.](#) - Machining
- [Delphi Corporation](#) - Global manufacturing
- [KSEC](#) - Tobacco industry
- [Lanco Assembly Systems, Inc.](#) - Machine industry
- [Motovated Design & Analysis, Ltd](#) - Engineering
- [R/D Tech](#) - Non-destructive test equipment
- [Romaco Bosspak](#) - Pharmaceutical equipment
- [Shanghai Hitachi](#) - Appliances
- [Sinvaco](#) - Hhigh-technology vacuum applications
- [Van der Most Research](#) - Attraction industry

### **Electromechanical**

- [Adam Aircraft](#) - An interoperable solution
- [Electromagnetic Sciences](#) - Wireless industry
- [Heatcraft](#) - Refrigeration industry
- [Kaiser Optical Systems](#) - Holographic displays
- [Matsushita](#) - Refrigeration industry
- [Sage Technologies](#) - Thermal imaging industry
- [Value Plastics](#) - Plastics industry
- [Watsco Components](#) - HVAC industry
- [De Dietrich Thermique](#) - Boiler industry
- [FASCO Motors Group](#) - Motor industries
- [Identification Technologies Intl. Inc.](#) - Biometrics
- [Liebert Corp](#) - Electronics industries
- [Philips](#) - Broadcast industry
- [Tohoku Ricoh Co.,Ltd.](#) - Office automation equipment
- [Walker Systems Inc.](#) - Wire and cable industry

### **Tooling**

- [Arrow International, Inc.](#) - Medical industry
- [Steelcraft Precision Tools](#) - Work holding industry
- [Vernay Laboratories](#) - Fluids control industry
- [K&K Tool, Ltd.](#) - Mold Design and Manufacturing
- [Summit Tool Design](#) - Tool and Die industry

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