



## 2008 Digital Parts Vendor's Directory

**April 2008**

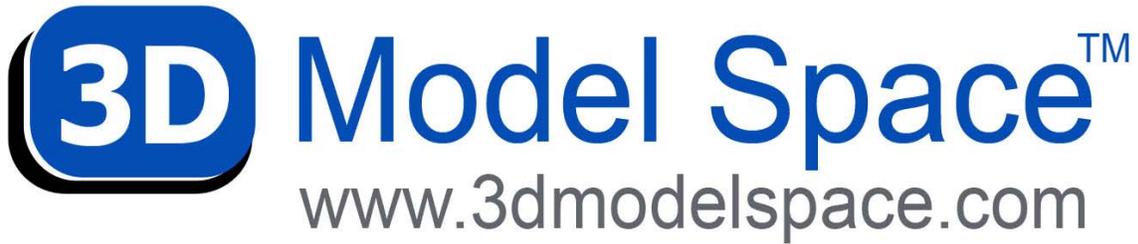
Manufacturers spend an estimated \$2 trillion on standardized components such as springs, fasteners and bearings. This figure, according to a leading service provider of online industrial parts libraries, accounts for approximately one-half of the U.S. manufactured products market.

Design engineers spend a significant proportion of their time searching for stock parts and creating CAD representations of these parts for their designs. In 2008, the trend continues for more of those parts to be made available online in a downloadable format; while this saves time and streamlines the engineering process, other corporate functions are realizing savings too—manufacturing, prototyping and marketing, as well as engineering.

A dominant story to emerge in this year's Connect Press annual

review of digital parts libraries is the aggressive stance being taken by Catalog Data Solutions (CDS) for offering free downloadable 3D CAD models while enabling purchase of the part at the same time. What follows is an overview of the offerings of the major players in the online digital parts marketplace and the ConnectPress 2008 Digital Parts Vendor's Guide.

*The Convergence of Market Trends Creates New Online Opportunity for Manufacturers and Distributors*, a whitepaper authored by Catalog Data Solutions, identifies the convergence of five key trends in the manufacturing products market that has resulted, they conclude, in a significant sales and marketing opportunity for industrial suppliers.



The 3D ModelSpace search engine will help you find 3D CAD models on the Web. Enter the component types or manufacturers you wish to search for in the search box.

Examples:

- bushings
- metric spur gears
- radial ball bearings
- slotted shoulder screw

*Gearing for Growth* details how Rockwell Automation outsourced their online product catalog to PARTsolutions. The motors, drives and Dodge transmission component manufacturer increased visibility and customer satisfaction by delivering native data in 85 CAD and graphics formats, reducing designer's efforts and cost to design Rockwell's products into their systems.

*TraceParts* by ConnectPress' John Myers, In this interview Bob Nofle, North American President of TraceParts, explains some of the realities and challenges of the digital parts field.

*3D PartStream.net* by John Myers offers a profile summarizing the features included in 3DPartStream.net and 3DContentCentral.com, two digital part solutions offered by SolidWorks.

*CADParts* by John Myers reveals an interview with Dave Richins, founder of CADParts, a company that offers a series of digital parts catalogs.

*Creating Digital Parts from Scanned Data* by staff writer Cynthea Kinnaman takes a look at how California company Reverse Modeling Inc. helps customers build a digital library from scanned data. Company President Ray Reveles claims their approach to updating legacy data and outdated parts is a more cost-effective way of creating a digital parts library, compared to traditional CAD modeling.

And last but not least... *Top Tips for Using Digital Parts Catalogs* by Cynthea Kinnaman and John Myers. Some of the big names in the digital parts industry weigh-in with advice for users and manufacturers with suggestions on how to optimize the digital parts experience.

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Data provided on the following pages was compiled using submissions from participating companies. It is not exhaustive and does not include all the products and services available from each company. We have, however, attempted to include the major software solutions and services. ConnectPress, Ltd. cannot guarantee the accuracy of this data. We suggest you contact the participating companies for details, particularly to confirm technical specifications

### 3D ContentCentral

SolidWorks Corporation's 3D ContentCentral 2008 is an online community that allows engineers to download and share content globally, helping them save time and design more innovative products. 3D ContentCentral is free to registered engineers and designers who use it to share 3D models and 2D drawings with other design teams, regardless of their CAD system or geography.

Using 3D ContentCentral, engineers can immediately access an online catalog and: configure components to their specifications; view 3D models and 2D drawings of products; and download models directly into their designs.

Key enhancements in 3D ContentCentral 2008 include:

- **support for more content types**, including parts/assemblies for almost all CAD tools, as well as 2D blocks, SolidWorks® software macros, and library features;
- **community features**, including content search, user ratings, and tools to request content from the community all give engineers more information about content creators;
- **personalization features**, such as "My3DCC" enable

users to create their own area of the site to help focus on their particular needs; and

- **improved content upload tools** that let engineers upload content by simply dragging and dropping.

Learn more about 3D ContentCentral from the tour video available at:

<http://www.3Dcontentcentral.com>.

### CADCells.com

MicroStation and AutoCAD based symbol libraries

Product description: 2D and 3D symbols for MicroStation and AutoCAD for Architectural, Structural Steel, Process Piping, HVAC, Civil, and Electrical disciplines.

- Is a 2D and 3D preview of the catalog part available? Yes – trial downloads are on web site and samples are shown on web site.
- Are models generated just-in-time or pre-defined and stored individually? Pre-defined and stored into cell libraries.
- What 2D native formats are available (DWG for example)? .dgn and .dwg
- What neutral 2D formats are available (IGES or TIFF for example)?

.dxf,.dgn.vrml world, stl, step  
ap203/ap214, iges, parasolids, acis  
stat, cgm

- What 3D native formats are available (UG.prt for example)? .dgn and .dwg
- Is part history and assembly hierarchy information included in 3D native files? No – descriptions of all symbols are included.
- What neutral 3D formats are available (STEP for example)? .dxf
- Are 3D single parts and 3D assemblies supported? yes
- Can the product be used to manage multiple catalogs? yes
- With which CAD vendor partner programs are you currently a member? none
- Does your company have contracts directly with part manufacturers who certify their catalogs? No, although I would consider teaming up with some and offer their products for use with MicroStation
- What is the price range of the product? Free to \$5,000.00

For more information visit:

<http://www.cadcells.com>

## CADParts



### **Threaded Pipe Fitting Library:**

Models for Bronze, Gray Iron, Forged Steel, and Malleable Iron. Library includes Tees, 45 Deg Elbows, 90 Deg Elbows, Y's, street fittings, reducers, return bends, reducing Tees, reducing Elbow, Caps, Pipe, Pipe Nipples, Plugs, Caps, and more. Models are dimensionally accurate per the respective ANSI/ASME Standards. Library is compatible with SolidWorks 2000 and beyond. Library is also compatible with SolidWorks Routing 2004 and beyond. Models have mating planes to allow for the correct insertion depth for a liquid tight fit. The library is also available in IGES or STEP format.

**PipeWorks:** An insertion and mating program that automatically places and mates pipe fittings, and pipe into an assembly. Visit <http://www.cadparts.com/pipefittings.html> to see a demonstration. This product is fully embedded within SolidWorks. The program is compatible with SolidWorks 2006 and beyond. Program is also an excellent companion package to SolidWorks Routing.

### **Fastener Library with Insertion and Mating Program:**

This product is a SolidWorks “Certified Gold Product”. The Library contains over 11,000 fasteners. The nuts, bolts, and screws cover the Inch sizes from #2 up through 1 ¼ Inch. The Pem Fastener section includes both metric and inch sizes. The Insertion Program automatically inserts and mates the selected fastener into the assembly. Over 50 fasteners can be inserted in less than 30 seconds. For more information visit:

<http://www.cadparts.com>.

### Catalog Data Solutions



### **Enabling Industrial Suppliers to present their products online**

CDS provides hosted, modular software and services – including CAD download servers, CAD modeling services, Digital Catalogues, Spare Part Catalogs, Configurators and eCommerce – to provide custom, online solutions, integrated into manufacturers and distributors websites. CDS also consolidates content from multiple suppliers and facilitates online

searching across manufacturers via its 3DModelSpace search engine.

*“I am a designer, and I dictate where the parts are purchased from. If you have the CAD model I want, you get the sale. It is just that simple.”* Daniel Smith, Goodrich Corporation

*“Already 60% of our sales leads are from CAD models – they convert to sales faster, at a higher rate and cost less than 10% as much as leads from traditional marketing.”* - John M. Winkler, CEO, Office of the President

For more information visit

<http://www.catalogdatasolutions.com>,

<http://www.3DModelSpace.com>

### IMSI/Design

IMSI/Design is a global leader in retail CAD (Computer Aided Design) and has been providing superior products to professional engineers and architects for over 20 years. IMSI/Design products include the award-winning TurboCAD®, TurboFLOORPLAN™, TurboSketch™, and DesignCAD™ families of precision design applications.

**CADsymbols® v3** and **CADsymbols.com®** are 2D/3D model libraries that are essential

for CAD designers who want to save time and download complex drawings quickly.

**CADsymbols® v3** is a CD-based product that provides the most extensive collection of standard parts and symbols available. Packed with over 30 million symbols drawings and models in 2D/3D view, this product is perfect for any professional mechanical and architectural engineer.

**CADsymbols.com®** is one of the world's largest collections of professional CAD symbols and includes a wide selection of Mechanical, Electro-Mechanical, Architectural, Civil/GIS and Piping Industry symbols. Visitors can sign up for a **free** three day trial and get unlimited and unrestricted download rights to over 8 million professional top-quality symbols library. Easily drag and drop the symbols into your application.

For more information visit:

<http://www.IMSIDesign.com>;  
<http://www.CADsymbols.com>;  
<http://www.TurboCAD.com>

### **iSEEK**

iSEEK Corporation offers two products for the coding, classification and search of CAD parts and assemblies as well as

other three-dimensional objects. CADSEEK is the client-server package often favored by large, global enterprise corporations. The Digital Catalog offers many of the same features as CADSEEK and operates from within a web browser. While the Digital Catalog is useful for large corporations, it is also well-suited for smaller companies including suppliers and contract manufacturers. Either package provides the functionality to search for parts on the basis of shape alone, metadata (text) alone or a combination of the two. Personnel in engineering, manufacturing, purchasing or other supply chain functions can use these products to locate parts and assemblies for reuse, to find acceptable substitute parts to cover delivery shortfalls or to identify qualified manufacturers for fabrication of newly designed parts. The Digital Catalog is available for evaluation on the web site <http://www.iseekcorp.com>.

### **JW Winco**

J.W. Winco Inc.'s Web site at <http://www.jwwinco.com> includes 2D and 3D CAD models for over 18,000 parts. After a quick registration process the user is able to download as many 3D models as he chooses, in 19 different formats including .ig, .prt, .step, and .dxf. Users with the

eDrawings viewer may view the 3D model directly on the J.W. Winco CAD web page. The site also allows users to download and install eDrawings for free.

J.W. Winco offers an extensive selection of inch and metric size adjustable levers, cabinet U-handles, plastic and steel hinges and locking mechanisms, revolving and retractable handles, hand wheels, hand cranks, conveyor components, leveling mounts, hand knobs, spring, ball and indexing plungers, jig, fixture and fastening components, toggle clamps, metric casters and wheels, universal joints, oil sight glasses, and metric tools for the industrial and commercial equipment industries. J.W. Winco's website catalog also includes an eStore for online purchasing. Users may check pricing for over 18,000 parts, and make their purchases by credit card 24 hours a day/7 days a week. All shoppers receive free UPS Ground shipping for orders over \$15 (smaller orders will be charged a \$10 service fee).

### [PARTsolutions](#)

PARTsolutions® LLC, based in Cincinnati, Ohio and CADENAS GmbH of Augsburg, Germany, developer of PARTsolutions technology, are the leading providers of solutions for the

enterprise management of standard and commercial parts as well as cross-media, catalog publishing solutions for Internet, CD and printed catalogs. Founded in 1992, PARTsolutions is the largest supplier of 3D digital product catalogs in the world and now has over 400 2D and 3D catalogs available in the native formats of virtually all CAD systems available to engineers worldwide. Information about PARTsolutions can be found at

<http://www.partsolutions.com>

### [Reverse Modeling Inc.](#)

Reverse Modeling Inc., based in Los Angeles, CA, provides 3D scanning and reverse modeling solutions and services to solve complex modeling problems. We specialize in helping our customers build a digital parts library with our Reverse Parts™ and Corporate Reverse Parts™ services. Reverse Parts™ is effectively "the reverse modeling process at a fixed cost", customers send a part, we scan it, model it and send out a CAD model in one of the popular CAD formats. 3D scanning is widely used in the reproduction of architectural artifacts, pre and post medical and dental reconstruction, reverse engineering, legacy data update, inspection, rapid prototyping, animation, marketing and various other applications. To

learn more about Reverse Modeling Inc., and to find pricing information please visit the our website at <http://www.reversemodeling.com>

## TraceParts



TraceParts is a leading digital engineering 3D content company, offering customers progressive business solutions through powerful web & DVD based products and services. As part of the Trace Software Group founded in 1989, TraceParts develops and markets software solutions for CAD libraries, electronic catalogues and product configurators specially designed to meet the requirements of the

mechanical industry. TraceParts helps customers improve marketing efficiencies by increasing the value of their existing digital product data.

<http://www.tracepartsonline.net> 3D catalogue portal is freely available in 20 different languages to millions of CAD users worldwide, with more than 200 catalogues and 100 million CAD drawings and related technical data suitable for the design, purchasing, manufacturing or maintenance processes. TraceParts catalogs are available as native parts models for all the major CAD and ERP/PDM systems, including CATIA, SolidWorks, AutoCAD, Inventor, Pro/ENGINEER, Solid Edge, NX, TopSolid, Alibre, SpaceClaim, etc. For more information about TraceParts, please visit <http://www.traceparts.com>

For More Digital Parts Products and Services also visit:

<http://www.3DCADTIPS.com>, <http://www.3dpartstream.net>,  
<http://www.misumi.co.jp/en>, <http://www.solengsol.com>,  
<http://www.solidworks.com>, <http://www.web2cad.com>,  
<http://www.bct-technology.com>, <http://cad.thomasnet.com>,  
<http://www.kubotekusa.com>, <http://www.cenit.de>,  
<http://www.esi-group-na.com>, <http://www.tgstech.com>