PRODUCT HIGHLIGHTS

Detailing Software Products

ACECAD SOFTWARE INC.

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StruCad, a leading 3-D structural steel detailing system, provides increased productivity, increased accuracy, increased flexibility, improved connectivity, improved workflow and worldwide support.

ASVIC ENGINEERING & SOFTWARE

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Mech-Q Structural Steel Detailing (MST02): Mech-Q Structural Steel Detailing is a group of plug-in utilities for AutoCAD. The main modules are: Steel Shapes generator (AISC/ASTM & Metric), BHP (Australian), CISC (Canadian), DIN, RSA, IS & JIS), with weighted auto-BOM and listing utility, 2-D and 3-D. Stairs utility: from single flight to multiple-flight stairs, front, elevation & plan views. The utility is equipped with auto-dimensioning and stringer fabrication detailer. Ladder utility: step-thru & side-step ladders, fully customizable & with auto-dimensioning. Beam-to-beam and beam-to-column connections: with auto-fabrication detailing.

Other powerful modules include: structural bracing module, hand railing, frames utility, purlins & girts, plates, welding symbols and many more.

Also included is the beam designer with design options: simply supported, cantilever, propped & build-in beams, and multiple load cases. The utility reports & plots stress & deflection diagrams, reactions & minimum allowable beam section.

AUTOSD, INC.

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AutoSD, Inc. develops and markets AutoSD steel detailing software. This program runs inside AutoCAD 13 - 2002, AutoCAD LT 2000 - 2002 and IntelliCAD 98 - 2001 for creating shop fabrication drawings of structural and miscellaneous steel.

CADVANTAGE, INC.

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CadVantage has three products: CVSpro8.3 for automatic structural detailing, CVSpro ToolBox for miscellaneous detailing (stairs/rails), and SmartJoist (2000 AISC Hot Product of the Year), which creates joists lists and decking layouts. CVSpro8.3 is an AISC Hot Product of the Year. It is the only stand-alone Windows system that combines piece-by-piece and grid navigator input styles. CVSpro is very easy to use and learn–users click onto icons representing framing conditions, and enter other basic information they would find on a framing plan. The rest is automatic. Connections can be applied automatically, or specified from a user-definable library. Repetitive things (connections, shapes, dimensions, etc.) can be stored onto user-definable "Keeper" icons. Users can create multiple, re-usable "clients"– making the system ideal for sublet firms. CVSpro can link with production systems like Fabtrol and EJE.

CVSpro can now be used on a pay-per-use basis. Users still have the choice of purchasing an unlimited-use license, but now can use QuarterWare's virtual 'tokens' to pay for the details they produce using CVSpro. This does not require the user to be connected to the Internet as with older pay-per-use methods. Learn more at www.steeldetails.com/payper-use.htm.

CDS, INC.

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Asteel is a rapid-throughput, high-quality detailing system that allows users to create orderly and easy-to-read details with minimal input. Intelligence is built into the connection types, such that they automatically adhere to job and fabricator standards. Flexibility is pro-

vided in all aspects of the program through configuration options and preference settings that allow users to customize connections and the overall behavior of the program. In addition to detail drawings, Asteel produces mill orders, production control data, CNC data for management and fabrication systems, and engineering calculations for detecting weak connections. Asteel can be used in a networked environment where multiple detailers work on the same job at the same time. On-site installation and training, context-sensitive online help, comprehensive printed reference manuals, and telephone support are provided with the software. Free updates containing new features and connection types are distributed to all customers several times each year. Fully-functional trial versions are available at no charge.

COMPUTER DETAILING CORPORATION

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SteelLogic is an integrated detailing system that creates plans, elevations and detail drawings of structural steel and miscellaneous metal along with a bill of material, cutting and shipping lists, and other material reports. The system uses the power of the AutoCAD engine with the enhancement of SteelLogic toolbars, tool tips and dialog boxes. An in-depth knowledge of AutoCAD is not required.

In addition to detailing stair stringers and railing, SteelLogic can automatically draw stair framing plans with an unlimited number of different runs. A comprehensive section through the stair-framing plans can be created with a single button click. Enlarged details of connections, for structural or miscellaneous work, can be created without the user's concern about scaling. A variety of railing posts are accessible, and tools for making special ones exist. Various pans, nosings and support clips can be inserted with a single pick.

An Optimal Cutting Program (multing) and a stand alone Material Management Program are available. The Optimal Cutting Program can be integrated with the SteelLogic reports.

Detailing Software Products

DESIGN DATA- SDS/2 SOFTWARE

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The SDS/2 Detailing Module is a proven leader. Through two decades of development, Design Data has consistently introduced breakthrough technology to the steel industry. With Design Data technology, you can automatically design connections and utilize a true 3D Model to produce details. It features multi-user and multi-site capabilities with one model that can support automated equipment, and provides the ability to download engineering data into a detailing system. It also features adaptive detailing to meet drawing requirements.

SDS/2 has the built-in intelligence to automatically design connections designed off of an extensive setup that allows each customer to get the material, edge distance, and details desired. All the minor pieces of steel (ladders, handrails, checkered plate) can be modeled interactively or using parametric design. The automatic detailing will create the most complete set of 2D drawings available in the industry. All major members, minor material and erection drawings are automatically created. Design Data is a proven leader and continues to provide its customers with the advantage they need. SDS/2 is the right fit.

DETAILCAD

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DetailCAD® is an automated program working inside AutoCAD® that produces superior quality shop details, anchor settings, framing plans and elevations with minimum input and enhancement. Shop details, including beam, column, bracing, leveling plates, anchor bolts, stairs, HR and welded frames, can be produced directly from framing-plan or piece-by-piece input. Anchor-setting plans, erection plans, elevations and an advance-bill table can be produced from the plan input method. Plan input is done with dialog boxes by inputting grid locations, adding columns to grids crossing and then inputting beams and/or joists at each level. Press a button to generate shop details or a 3D model. Piece-by-piece input is done by opening a dialog box and filling in framing sizes, center-to-center dims, left support type, etc. Then press a button to draw the member. All of these details can be modified at any time without affecting other detail pieces. DetailCAD will also produce CNC files, Fabtrol files, and weights for each shop drawing. DetailCAD is the easiest, most productive detailing software for the money.

PRODUCT CASE STUDY

Project:
Fisher's Place

SOFTWARE:
DESIGN DATA SDS/2

New technology can create real benefits–as demonstrated by a recent project in Norfolk, VA.

The project was the Fishers' Place, a six-story commercial office structure that contains a combination of vertically braced frames and moment frames. As with most commercial projects, the exterior of the structure consisted of brick-relieving and windowsill steel frames at all levels with vertical brick joints. These frames all vary in depth, width and size throughout the structure.

Automated detailing systems have been able to handle structural members like these very efficiently for several years. Handling the attachments to structural members usually takes extra time, but two new software features recently developed by Design Data for the SDS/2 System reduced the detailing time by more than 50 percent.

A parametric modeling feature enabled the detailer to create macro programs specific to the exterior frames on this job. These programs automated the tasks of adding the material to the structural members, and the detailer was able to add more than 400 varied spandrel frames and more than 900 kickers with slab anchors to the structural members in about three days.

The second new feature used was adaptive detailing. This functionality allowed the detailer to customize the drawing presentation of the exterior frames based off the customer specifications. The detailer identified the material, view, and dimensions and annotations required by the shop in an adaptive detailing file. Using this file, the SDS/2 detailing system was able to automatically add dimensions, annotations and comments. On a broad scale, this new feature teaches SDS/2 how to detail specialty items often found in today's steel structures.

Using the combination of parametric modeling and adaptive detailing, the detailer was able to meet the deadlines of the project and satisfy the customer. Six months ago, this turnaround time would have been impossible, and the time to input, check and prepare all the drawings would have been estimated at three and a half weeks. By taking advantage of the new technology, the detailer was able to compress this down to about five days.

PRODUCT HIGHLIGHTS

Detailing Software Products

DIGITAL CANAL CORPORATION

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StrucPro by Digital Canal: StrucPro is inexpensive, fast, simple and runs inside AutoCAD. StrucPro uses a system of dialog boxes and command line prompts to let you input geometry and other data and then draws the detail for you. The program has four menus that add on to your existing AutoCAD menus:

DTools– Drawing tools that let you control the way StrucPro works (units, colors, layers, etc.). It also contains a collection of symbols and callouts.

Steelwork– Routines for common steel members in section, elevation & plan, cleats and connections, steel framing plans and elevations, stairs, schedules, trusses, etc. The menu also contains commands for converting lines to members, creating and editing 3D solid members, and various steel symbols.

Concrete– Routines for creating concrete details including reinforced beams, columns, walls, footings, pile caps, pre-stressed beams, stairs, precast slabs, rebar and much more.

Detailer– The workhorse of StrucPro. Routines are for the production of shop drawings and include steel beams, columns, rafters, bracing, tubes, angles, stairs, ladders, handrails and more. It is also used to automatically generate bills of materials and bolt lists.

MACROSOFT

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Detail, the fully automated structural steel detailing system, is the easiest to learn (three-day learning curve) and the most productive 3D detailing system on the market today. By using simple input forms (and soon to be released visual modeling environment), the detailer defines the structural members in the 3D model. Plans and elevations are then generated to check the model. Connections are applied in a global general fashion, with over 150 intelligent connection types that automatically resolve clearance problems and conflicts between members and other connections. Detail then automatically, quickly and accurately generates and composes clean, complete connection material and shop drawings from the 3D model, with final erection drawings and dimensions. Included is a full suite of reports, as well as downloads to MIS software and CNC equipment.
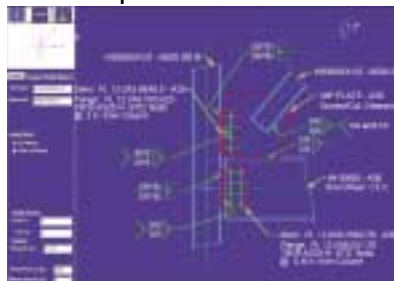
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MultiSUITE Software has been providing worldwide professional steel and concrete solutions for AutoCAD for over 10 years. Development and testing of all MultiSUITE Software products is carried out for all AutoCAD platforms including AutoCAD LT98 (SE) and above. Our sales and support team are all from structural backgrounds and have many years of experience in the use of AutoCAD.

Software development is ongoing and interactive. We are pleased to receive comments about the use of the software and user feedback from our existing user base. Each year, major new releases of the MultiSUITE products reflect our commitment to increased functionality and drawing office productivity. Our existing user base is within the consulting engineering, process plant and fabrication industries.

OMNITECH ASSOCIATES

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DesconWin and Descon Brace programs are used to design connections of steel structures. ASD and LRFD versions of both programs are available. DesconWin designs shear and moment connections. Beam-to-column flange, beam-to-column web, and beam-to-girder connections as well as beam and column splices are designed using DesconWin. Column splice alternatives include direct welding, butt plate, welded/bolted flange plates and welded/bolted web plates. Column splice is designed for combined compression, moment, tension, and shear. Design of column web stiffeners and doubler plates are included in DesconWin.

Descon Brace designs vertical bracing connections including connections of Knee and K-Braces. Descon Brace has been expanded to include brace connections to column base and V-brace connections. Gusset plate to column connection options include direct welding, bolted/welded single plate, and bolted/welded clip angles.

Connections to HSS columns have been implemented in DesconWin and DesconBrace. Both programs generate detailed calculation reports, drawings and DXF files.

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SteelPLUS 2000 is an inexpensive suite of detailing and drafting applications that work with AutoCAD Release 14 through AutoCAD 2002. No learning curve, hardware lock, or expensive training programs. SteelPLUS 2000 includes structural shapes, bolts/nuts/washers, joist & girders, steel floor & roof deck, and welding symbols. Databases include AISC, MAISC and CISC. Visit our web site for more information on the complete package.

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Softscan, is a robust, stand-alone software system that reads any DWG, DXF, or 3D-Cad/SmartKad file directly (without Autocad), and creates a file that can be imported into FabTrol, EJE, Steel 2000, Romac, Structural Software or Microsoft Excel, thus eliminating the tedious task of typing the bill of materials into these software packages. Softscan also produces a variety of reports based on the bill of material including a mill order report, cutting list, nesting report, bolt summary, and connection material summary report. Once you configure Softscan to recognize your bill of material, you simply select your drawings from an explorer style screen, and click the SCAN button. The rest is automatic. Softscan will automatically locate and scan your bill of material. You do not

Detailing Software Products

need Autocad to be installed—Softscan reads your drawing files directly. Softscan imposes no special requirements on the detailer because it runs afterwards, independent of the detailer. Softscan supports imperial and metric input and output, sequencing, mill order page-line numbers, revision numbers, and virtually anything that can be found in a bill of material. Softscan will allow you to save the resulting export files anywhere you wish, including emailing directly out of Softscan.

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SSDCP is an AutoCAD-based product for making structural and miscellaneous steel fabrication drawings, plate-work details, anchor bolt plans, erection plans, e-sheet sections, and practically anything else a steel detailer needs to draw. SSDCP programs were created and written by a seasoned detailing veteran with over 40 years of experience. Its drawings follow established AISC standards and are very clean. SSDCP includes imperial and metric versions using US, Canadian and European steel shapes.

SSDCP is an established product in the industry, having been in use for over 15 years. It allows users to quickly and simply detail almost anything–from beams, columns, bracing, stairs, handrails and frames to tilt-up panels and full-size shop templates. SSDCP programs are purchased individually or in bundles. They can be used alone or alongside other systems like CVSpro, SDS/2 and X-Steel. Users get free technical support and a 60-day money-back guarantee. The learning curve is less than one day. No maintenance fees. Yearly updates.

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SteelCad is an automated steel detailing and fabrication software program designed to dramatically increase productivity. We offer several different packages, each tailored to meet a specific set of needs. Fast, easy to use, accurate and versatile, SteelCad is designed to get the job done quickly—and properly.

SteelCad is compliant with AISC and CISC standards, as well as essential steel detailing methods, so you don't need to spend a lot of time "cleaning up" the drawings it produces. Its drawings are shop-ready, complete with reference dimensions, running dimensions, designed end connections, shop bills, piece marks, weights, and both shop and field bolts. It can even produce erection drawings and generate design calculations.

Our program details almost any kind of structural beam, including skewed, sloping, cantilever, wall-bearing, and moment beams. It can detail columns, including spliced columns and fireproofed columns. SteelCad also details vertical and horizontal bracing (including double-angle and x-bracing), virtually any kind of stair, and ladders (with or without cages). Plus, any member can be made from almost any type of structural shape (WF, WT, S, C, MC, L, plate, double-angle, rod, TS, HSS, or pipe, among others).

For the shop, SteelCad can produce gather sheets, material lists, cut lists, and complete data for export to almost any production control or CNC software. It can also match almost any shop standard piece-marking system and bill layout. Visit www.steelcad.com to start improving your business today!

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RAPID Steel's ability to accept information from engineering software combines with design, detailing, and fabrication control to produce an integrated system. It is Windows compatible, has a centralized database and imports 3D neutral files from design software. It features imperial/metric units, bill of materials, automatic production of erection plans and detail drawings, customized reports, error checking, CNC interface, connection analysis, ability to detail single members and user-defined components.

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Steelware is a complete steel detailing package for both miscellaneous and structural steel.

The miscellaneous section includes extensive and versatile stair and railing modules. Also included are cage ladders, plain ladders, angle frames, embedded angles, and more. The structural section contains beams, columns, horizontal bracing, vertical bracing, and their associated components (i.e. end clips, auto coping, web holes, shear tabs, base and cap plates, etc.). Also included are an auto bill of material, standard connections, and much more. The erection-plan portion has modules that cover stair erection plans, stair elevations, structural erection plans, and anchor-bolt setting details. We are now selling the stair-erection plan modules as a package, for those who only need the stair plans portion of the software. Recently we announced that we now support AutoCAD LT, in order to give the user a better variety of graphic engines to choose from.

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ProSteel 3D is an AutoCad-based 3D modeling and detailing software featuring the latest ARX and COM technology (Release 16.1). This structural steel construction application is offered in three versions, ideal for detailing/fabrication, engineering and architect offices. ProSteel communicates with various analysis software, is easy-to-use and is surprisingly low in cost ($4,995 for detailing version). It also generates complete parts lists, BOM and NC/PPS data for automatic programming of fabrication machinery. ProSteel 3D uses international sections and connections, and operates in both imperial and metric units. The latest exciting development is custom parametric connections or assemblies via its Visual Basic COM interface.

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Tekla is the world-leading developer of model-based operational software systems. Tekla's Building & Construction business unit develops model-based software systems that help you manage the engineering, detailing and fabrication information for even the most com-

Detailing Software Products

plex building projects. Tekla's flagship product in North America is Xsteel, the 3D modeling, detailing and material listing system. Using Xsteel, you can create a real-life model of any steel structure quickly and precisely, and share this model and drawings throughout the design, fabrication and erection phases of a project. Xsteel will dramatically improve your accuracy and productivity. With thousands of users in over 50 countries around the globe, Xsteel is truly the 3D steelwork solution.