

# 2001 Hot Products

## Coatings

### Honor Award

#### Supercoat

A-Plus Galvanizing, Inc.  
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P.O. Box 2717  
Salina, KS 67402-2717  
Ph: (785) 820-9823  
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E-mail: plusgalv@aplusgalv.com  
Web: www.aplusgalv.com  
InfoExpress #100

**T**echnological advances are helping to speed design and construction while reducing costs—and this year's Hot Product Award Winners represent the most interesting and useful products introduced for the steel market in 2000.

The categories include coatings, connecting materials, engineering software, fabrication/detailing software and fabrication/erection equipment. Both Honor and Merit awards were presented in several categories. The awards are based on descriptions and claims by the manufacturers; no product testing or evaluation was performed. These awards do not constitute a product endorsement by MSC or AISC. AISC products were not eligible for awards. Only submitted products were considered.



The "Supercoat," a lead-free hot-dip galvanizing kettle, offers pure high-grade zinc (99.9 pct pure) with a pure nickel powder-melt blend that helps prevent "gray-coat." The "Supercoat" gives an improved quality smooth/bright finish for an overall superior surface appearance, meeting the ASTM A-123 specification standard.

A-Plus Galvanizing, Inc. is home of the "Super Kettle," a lead-free hot dip galvanizing zinc

kettle. It has:

- 400 million lbs. annual plant capacity;
- Ability to single dip items up to 82' long x 10' wide x 12' deep;
- Crane system lift capacity of 100,000 lbs.;
- Corrocote after galvanizing available;
- Local transportation available;
- Local fabrication available.

## Connecting Materials

### Honor Award

#### FLS Articulated Beam Clamp

##### Lindapter

3924A Varsity Drive  
Ann Arbor, MI 48108  
Ph: (888) 724-2323  
Fax: (734) 677-2339  
E-mail: lindaptr@ic.net  
Web: www.Lindapter.com  
InfoExpress #93



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The Lindapter FLS is a swivel beam clamp that can rotate 360 degrees and articulate 90 degrees forward or 45 degrees sideways and backwards all within a compact space. The product offers high load bearing capacity from 330 lbs. to 55 lbs. with a factor of safety of 4:1. It is made out of a high-grade alloy steel or stainless steel and has an electro-galvanized finish. The product is ideal for the suspension of building services equipment including heating, ventilating and air conditioning equipment, fire protection systems, electrical equipment and cable tray.

*Merit Award*

## **Coreshield 8**

**ESAB Welding & Cutting Products**  
411 South Ebenezer Road  
Florence, SC 29501  
Ph: (800) ESAB-123  
Web: [www.esab.com](http://www.esab.com)  
InfoExpress #99



Coreshield 8 Shelf-Shielded Flux Cored Wire combines toughness with ease-of-use. It features a fast-freezing slag that supports the molten metal during welding, allowing high deposition rates for out-of-position welding. ESAB comparison tests with equivalent welding wire in precisely timed 60

second runs have shown that Coreshield 8 lays longer weld lengths in the region of 30-40%. Greater efficiency means greater economy for the welder. Operating on DCEN (electrode negative), the wire is suitable for use with fillers, open root gaps and fill, as well as cover passes, without any limitation on plate thickness. Coreshield 8 meets the requirements of AWS A5.20, D1.1 and D1.5 Class E71-T-8 as well as Agency approvals to ABS and Det Norske Veritas III YMS (H-10).

*Merit Award*

## **HIT TZ-150**

**Hilti, Inc.**

5400 S. 122nd E. Avenue  
Tulsa, OK 74146  
Ph: (918) 252-6726  
Fax: (918) 252-6988  
E-mail: [kirkkei@us.hilti.com](mailto:kirkkei@us.hilti.com)  
Web: [www.hilti.com/us](http://www.hilti.com/us)  
InfoExpress #102



The Hilti HIT-TZ anchor works with HIT HY-150 in dirty and wet holes. It can do all of this with comparable and many times higher fastening reliability compared to the competition.

The HIT-TZ is secure, safe and reliable, like a capsule anchor. It has a flexible and simple setting procedure like an injection anchor but is much easier. The hole can be drilled for the HIT-TZ by using either hammer drill or diamond coring methods.

Planners, specifiers and building designers want the HIT-TZ because of its safety and security of fastenings. Contractors want it for productivity and security. Plus, with the Hilti HIT-TZ less adhesive is used, and the 20% less embedment saves time, wear and tear on drill bits.

## Engineering Software

*Merit Award*

## **RAM Perform**

**RAM International**

5225 Avenida Encinas  
Carlsbad, CA 92008 USA  
Ph: (800) 726-7789  
Web: [www.ramint.com](http://www.ramint.com)  
InfoExpress #81



RAM Perform is a specialized application and practical tool for performance-based design using nonlinear structural analysis.

RAM Perform incorporates the best available technology for nonlinear analysis, but it is automated in such a way that the engineer doesn't need to be a seasoned nonlinear expert, allowing him or her to concentrate on the design issues. RAM Perform provides unique capabilities for specifying limit states and calculating limit state usage ratios.

With RAM Perform an engineer can:

Build a nonlinear analysis model of a structure with minimum effort;

Specify deformation capacities as in FEMA-273;

Specify a wide variety of deformation-based and strength-based limit states;

Quickly and reliably run both static push-over and dynamic time history analyses;

Assess performance using the

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methods in FEMA-273 and ATC-40;

Using limit states, reduce the results of a very complex series of analyses to a few simple usage ratios for assessing performance and making design decisions.

RAM Perform-2D \$2500 is available now. RAM Perform-3D will be available in late 2001. The price has not yet been decided.

## Fabrication & Detailing Software

*Merit Award*

**DetailCAD Plan Generator**

**DetailCAD**

500 Depot Street, Suite 305

Whitefish, MT 59937

Ph: (406) 862-7906

Web: [www.detailcad.com](http://www.detailcad.com)

InfoExpress #24



DetailCAD Plan Generator allows the structural engineer to generate foundation and framing plans in AutoCAD format from a minimal set of data. Input questions are structured in simple dialog box form. Once the building data has been entered, it can be used to generate structural foundation and framing plans. The data can then be given to the detailer to be used to create

anchor plans and erection drawings for the steel fabricator. This method of cooperation provides an expedient means for those drawings to be created. And, if the detailer has access to the full version of DetailCAD steel detailing software, by the end of this year, the same data can be used to generate the structural steel details, advance bills, and joist lists as well. Some structural engineers are concerned about releasing digital copies of their design drawings for use by the detailer, but because the building data file is a text file, the use of Plan Generator should eliminate that concern. The Plan Generator can be downloaded from DetailCAD's website.

*Merit Award*

**Detailer's Genie**

**DetailCAD**

InfoExpress #24



DetailCAD's Detailer's Genie provides detailers with an online source of the reference information. It is designed to eliminate the need to pick up a hard copy reference manual. Detailer's Genie gives the detailer access to an enormous database of information such as rolled steel member size charts, both Imperial and Metric,

standard beam block sizes, usual flange gages, stiffener sizes, minimum and maximum rows, as well as section properties. It displays the information for each selection in graphic form and maintains scroll-down menus, which allow instant access to other selections with a click of the mouse. An interactive on-screen calculator functions the way a hand-held calculator would but also gives the user a choice of protocol. A conversion feature displays the same dimension in five formats: fractional feet and inches, decimal feet, decimal inches, base-100 feet-inches-sixteenths, and millimeters. A triangle calculator will display all three sides and angles of a triangle after entering a set of minimum defining variables, and there is also a skewed block calculator that displays not only blocks but pull-off dimensions for skewed connection plates. The Detailer's Genie can be downloaded from DetailCAD's website.

*Merit Award*

**FabTrol 8**

**FabTrol Systems**

132 East Broadway, Suite 636

Eugene, OR 97401

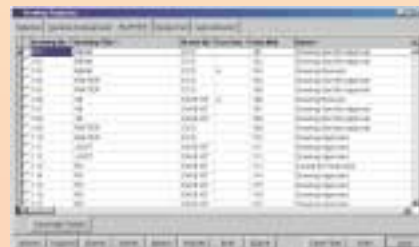
Ph: (541) 485-4719

Fax: (541) 485-4302

E-mail: [info@fabtrol.com](mailto:info@fabtrol.com)

Web: [www.fabtrol.com](http://www.fabtrol.com)

InfoExpress #94



FabTrol 8 is a fully integrated management solution designed specifically for the steel fabrication industry. Its established modules,

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currently in use at more than 500 fabrication companies worldwide, automate and integrate the estimating, material nesting, purchasing and receiving, inventory control, production tracking, and shipping functions. Version 8 expands the system to include three new modules: the Project Manager module, the Drawing Manager module and the new Import Manager module. Beyond the new modules, version 8 offers dozens of smaller features and feature enhancements, including coded labor and parts entry, parametric part sizing, stock audit reporting, mill rolling support, mill pricing by length, client/server architecture, and more.

Pricing for FabTrol 8 varies according to the needs of the organization. The software is licensed by seats, which controls the number of users allowed to access it concurrently. In addition to the base engine, the user can also choose as many of the ten optional modules as he or she needs for key functions such as project management, purchasing and receiving and shipping.

## Fabrication/ Erection Equipment

*Honor Award*

### **Kaltenbach KBS 1301 DG Bandsaw**

**Kaltenbach, Inc.**

6775 Inwood Drive

Columbus, IN 47201

Ph: (800) TALK-SAW

Fax: (812) 342-2336

E-mail: [sales@kaltenbachusa.com](mailto:sales@kaltenbachusa.com)

Web: [www.kaltenbachusa.com](http://www.kaltenbachusa.com)

InfoExpress #98

Designed specifically for cutting structural steel sections, the Kaltenbach KBS 1301 DG provides the structural fabricator with 51"



capacity and +40° to -30° miter capability. Features of the saw include robust twin column design, integrated NC miter setting and frequency controlled main drive. The KBS 1301 DG can be supplied as a stand-alone unit or in tandem with Kaltenbach's CNC Drilling Machines.

*Merit Award*

### **HI-VIS TUX Vest/Harness**

#### **Guardian Fall Protection**

4050 Auburn Way North, Suite 4  
Auburn, WA 98002

Ph: (253) 854-5877

Fax: (253) 854-5980

Web: [www.guardianfall.com](http://www.guardianfall.com)

InfoExpress #97



The Patented HI-VIS TUX Vest/Harness provides a comfortable, user-friendly alternative to wearing a standard body harness. Unlike typical harnesses, which take considerable time donning, HI-VIS TUX is as easy as putting on a jacket. Special features like notched pass-through buckles, and the convenient leg strap hide-away compartment makes the TUX less of a hindrance and inconvenience than regular full body harnesses.

Convenient features like non-adjustable hardware, D-rings that tuck away and plenty of pockets make the HI-VIS TUX a great product for the fussy worker. Yet the durable design and high-quality materials make the HI-VIS TUX able to withstand most rugged jobsite conditions with ease.

By combining a high visibility garment meeting ANSI/ISEA 107-1999 with a full body harness, Guardian has improved the productivity and safety of workers in these types of dangerous situations.

Hi-VIS TUX meets all applicable ANSIZ359.1, ANSI/ISEA 107-1999, OSHA regulations and has received CSA Certification.

Suggested retail: \$183 - \$199. The product is in stock at manufacturer or local dealer if available.

#### *Merit Award*

#### **JLG SkyWelder Package**

#### **JLG Industries, Inc.**

1 JLG Drive  
McConnellsburg, PA 17233  
Ph: (717) 485-5161  
Fax: (717) 485-6417  
E-mail: [comments@jlg.com](mailto:comments@jlg.com)  
Web: [www.jlg.com](http://www.jlg.com)  
InfoExpress #96

The SkyWelder Package features an integrated self-contained welding system with leads factory-routed through the boom powertrack. The new package is currently available on JLG boom lifts



with platform heights of 40' and 60' and has been developed to meet the specific needs of steel erectors and others doing overhead welding. Using boom lifts equipped with the SkyWelder package, welders can work more efficiently and safely since they no longer need to be concerned about leads draped over the edge of the platform. And because the generator and welder are an integral part of the machine, users don't have to stop work in order to reposition a ground-based welder when the location is changed. The SkyWelder package consists of a 4200-watt AC generator powered by the machines' hydraulic system and a 225-amp welder. An off/on switch, clamp and stinger are located in the platform providing a convenient workstation for the operator, and a 110V AC outlet powered by the welder's AC generator is also a standard part of the platform package.

List price is \$8,995 for SkyWelder Package only. It does not include the price of the lift.