

PRODUCT HIGHLIGHTS

Safety Products

BEST MANUFACTURING CO.

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The revolutionary T-Flex™ glove from Best Manufacturing Co. surpasses the cut-resistant standard, making it the highest rated cut-resistant glove in the lightest weight available. Unmatched as an FDA CR21 approved under-glove for meat cutting, the T-Flex™ is a 15-gauge, seamless-knit, lightweight glove with ideal cut-resistant applications for numerous industries where lacerations are likely. The T-Flex™ offers superior touch and tactile sensitivity for handling of sharp tool parts and jagged-edged metal or glass. The new breakthrough in cut-resistant hand protection is also ambidextrous - available per individual unit. Available in SM, M, LG and XL at: www.bestglove.com or 1(800) -241-0323.

THE CONNECTOR, LLC

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The CONNECTOR™, a self-contained, hydraulic-motor-driven lifting clamp, was developed to address positive load control and OSHA fall-protection requirements. Certified for a safe working load of 11,000 lbs, the device safely picks and transports beams, bar joist, and other structural materials to the delivery point, and then enables unhooking without workers having to go onto the suspended load.

Erectors who have used the CONNECTOR also cite it as a positive step toward reducing owners' spiraling liability insurance and workers' comp premiums. Since its market introduction three years ago, The CONNECTOR has been employed on a variety of steel erection field projects without failure or other incident. The device's innovative design and simple operation have won praise by the erection companies, and in 2002 it was recognized by ENR as one of the Top 25 Construction Innovations.

Recently, the capabilities of the CONNECTOR were expanded to handle steel pipe and placement of steel columns, and the control design was updated for both spool and wireless remote operator controls.

DBI/SALA

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DBI/SALA®, a leader in fall-protection and rescue technology, has been protecting workers for more than 30 years. We design and manufacture quality safety equipment exceeding OSHA and ANSI standards, and lead the industry in the development of new products that are engineered to bring complete safety to the worker.

The latest addition is the ExoFit™, a new-generation harness designed from the ground up for maximum comfort and performance! It's based on the concept of a single piece of material constructed in the shape of an "X" that wraps around the worker for no-tangle comfort and wear. The harness is complete with built-in shoulder, back, hip and leg padding, as well as Dri-lex® lining, a three-layer moisture-wicking material that absorbs perspiration, cooling the body. It also features the first and only quick-connect buckles in the fall-protection industry—they snap together and detach with one hand.

DBI also introduces the Wrapbox, a new lanyard designed for tieback use, that eliminates the need for anchor straps. The new hook and pistol grip provides one-handed operation and 360-degree protection—5,000 lb. in any direction—to the worker.

GUARDIAN FALL PROTECTION

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Guardian manufactures a complete line of personal fall-arrest and restraint systems, including such products as the Construction TUX vest/harness combo and the Beamer Fall Arrest anchors for structural steel. Anchor points (engineered industrial roof anchors), body wear (harnesses, etc.), and connecting equipment (lanyards, ropes) all provide users with durable, comfortable equipment.

Guardian has improved their CB Series Rooftop Tie-Off Points with new GatorSkin Coating. The CB Series anchors feature a "one base design" for easy installation into wood, metal, or concrete roof substrates. The GatorSkin coating provides better weather protection than galvanizing, powder coating, and zinc plating. Our CB will outlast the life of most roofs!

Variable post heights allow users to run catenary line systems to keep up to four workers in fall restraint. Guardian's CB Pass-Thru tops offer continuous access to lifelines without interruption at anchor points, resulting in increased mobility and comfort. All Guardian products meet or exceed OSHA and ANSI requirements.

INTERNATIONAL SAFETY EQUIPMENT ASSOCIATION (ISEA)

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ISEA is a trade association representing 80 companies that manufacture personal protective equipment (PPE). Members' products include hard hats, safety eyewear, hearing protectors, work gloves and shoes, respirators, fall protection, high-visibility and protective apparel, first-aid kits, emergency eyewashes and showers, gas-detection instruments, and warning devices. ISEA works to increase use and awareness of safety equipment. Voluntary, consensus ANSI standards developed by ISEA help users select PPE that meets their needs and expectations. ISEA produces communications tools to guide PPE purchasers and safety officers to equip workers properly for various tasks, and to make the business case for PPE. Subscribe to *Protection Update* newsletter free of charge by sending an email with your name and mailing address to jwalker@safetysafetyequipment.org.

PRODUCT HIGHLIGHTS

Safety Products

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Saving Lives: Proven methods to eliminate job-site fatalities. This book is a compilation of 89 proven methods to eliminate construction

industry fatalities. All of the contributors are seasoned safety and risk-management professionals. Areas covered are falls, electrocution, trenching/excavation, scaffolding and cranes. When implemented, these ideas can save lives on construction job sites. If you are responsible for safety on a job site, you can read the whole book in an hour or two and come away with proven ideas that you can use tomorrow.



PRODUCT CASE STUDY

Working between Green Bay Packers' home games, AISC-member National Riggers and Erectors, Inc. worked on a tightly scheduled expansion project for Lambeau Field in Green Bay, WI. Structural steel was to be erected without interfering with scheduled play, and the stadium's traditional character was to be maintained. Erected in 1957, Lambeau Field is the longest-tenured National Football League (NFL) stadium. The expansion project adds an upper concourse, more restrooms and concession areas, and roughly 10,000 seats. The \$295-million facelift also includes a new five-story atrium to house retail and office spaces, the Packer Hall of Fame and the stadium club. When complete, the upgraded stadium project will preserve the original field while including 71,000 seats and increasing total square footage from 810,430 sq. ft. to 1,695,500 sq. ft.

The expansion took place in two phases. Site work and steel erection of the outer structure were completed during the Packers' 2001 season. A demolition crew removed part of the inner structure afterwards, and sky boxes and an upper concourse were added before the next season.

Heavy welding was required to splice the vertical column sections, many of which were up to 3" thick. "Where they join two columns, backing bars were used when possible in lieu of backgouging," said Jerry Szweda, of National Riggers. Many of the column splice welds took full days to complete.

For these and other heavy welds, National Riggers used Lincoln Electric Co.'s 3/32" Lincoln® NR-305 Innershield® self-shielded, flux-cored wire electrode. Equipment included Lincoln Commander™ 500 engine-driven welders and LN-8 wire feeders. Commander performance was enhanced with Lincoln Chopper Technology™, which provided greater control over the DC welding output and facilitated arc starting and stability.

Chief welder Floyd Devoe says the Commanders were consistent when he welded the heavy columns. "You can push a high rate of speed, and it doesn't fluctuate," he said. "You don't get the voltage spikes that cause pin holes. It gives you a steady flow of power."

For other welds, National Riggers had 16 Lincoln Ranger™ 305G engine-driven welders at the site. Typically, these were used with LN-25 wire feeders and 5/64" Lincoln Innershield NR-203 Nickel(1%) flux-cored wire electrode. Self-shielded Innershield electrodes were suited for drafty, outdoor locations such as the stadium, since no external gas or flux was required.

Dean Drodzy, National's QA & QC manager, says that these two types of wires best fit the needs of the job. "There are all sorts of electrodes we could use, but we found that these two gave us the best production," he said.

Welding Foreman Ray Grainger added that all welds on the job were in accordance with the AWS D1.1 Structural Welding Code, and all the column splice welds were full penetration and ultrasonically tested (UT). "The typical CJP (complete joint penetration) column splice weld detail was a single-bevel, 45-degree included angle, with a 1/4" root opening," he said.

Lambeau Field, Green Bay, WI



He says these welds were made with the 3/32" NR-305 Innershield® wire. "It's hot and fast, and you can deposit a lot of it in a hurry."

Stick (SMAW) welding also was used to make field adjustments and engineering changes to the steelwork. "For the smaller jobs, it's faster to just take a SMAW electrode (AWS E7018) and make the weld," Grainger said. "The Lincoln welders are versatile [and] you can use them for wire or stick."

Equipment reliability was a big factor in maintaining productivity. The Lincoln engine-driven welders were often used 10 hours per day, six or seven days a week. "They kept going in the heat, the rain, the cold," Szweda said.

PRODUCT HIGHLIGHTS

Safety Products

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The main product in our line is The Dennington Safety Harness. This harness received UL certification to the federal OSHA standard 29CFR1926.502(d). In reviewing this standard you will see that this harness effectively eliminates six recognized hazards which are present in all fall protection. This harness has three significant advantages that set it apart from all other competition. The "Three Point Balancing System" keeps the worker vertical with the use of a patented shock-absorbing system which provides for shorter fall distance, radically reduces shock to the body and significantly reduces the hazardous slamming effect. The harness provides 5' of working distance and 6' of maximum fall descent, and is calibrated for three weight classes for maximum protection of the individual user. You can now perform job duties while remaining in federal compliance and reducing violations of the OSHA standards.

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Silver Plus UltraShade™ auto-darkening welding helmets feature a selectable welding shade level (10 or 11), a rare feature at this price point. These helmets also provide eye protection while offering a convenient, low-fatigue, working environment for the professional welder. UltraShade helmets automatically darken within a fraction of

milliseconds to the correct level of protection when an arc is detected.

These helmets provide continuous protection over the entire field of vision when light or dark. Special filters assure protection against UR and IR radiation. It is the only helmet with horizontal adjustment to adjust the closeness of

the helmet to the face. UltraShade helmets weigh only 16 oz. and are comfortable to wear.

A sensor bar eliminates the influence of surrounding bright light or when welding adjacent to other welders. Solar energy is used to eliminate the need for an on/off switch or inconvenient battery changeovers.

MIDWEST UNLIMITED

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Midwest Unlimited is a nation-wide supplier of fall protection, rigging, tools and safety equipment to the ironworker, and general construction industries. Midwest Unlimited features products from over 1000 manufacturers including Guardian Fall Protection, Klein Tools, Lift all, and MSA in our full-color 2003 catalog.

With same day-shipping, a knowledgeable sales staff, and easy and convenient online ordering, Midwest Unlimited is the only way to save time and money on your next project. Call us to request a free copy of our 2003 catalog.

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Nets That Work has the patented horizontal protective net system that is manually moved up a high-rise building under construction. These incredibly strong nets are remarkably easy to move and install. They save not only lives but insurance costs as well. For more information, please check out our web site!

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PAT America is a leading manufacturer of information, monitoring and control systems for mobile construction equipment. PAT America is part of the PAT Group, based in Ettlingen, Germany, and PAT is a subsidiary of Aditron AG (Dusseldorf, Germany), which is a member of the Rheinmetall Technology Group.

PAT America introduces the PAT Alert, a load-motion warning device developed to improve construction site awareness. It provides operators with an audio and visual tool to alert workers on the ground of their activities. The PAT Alert consists of a beacon and controller. The beacon is a compact and durable warning device, which allows operators to alert workers in the immediate area when the load is in motion. The beacon is portable and can be installed quickly and easily on any load. The PAT Alert can be wired to function automatically when the load begins to move, or it can be activated on demand by the operator. The controller's user-friendly design allows operators to alert workers on the ground with a simple touch of a button, without distracting them from crane operations.

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PerDatum's award-winning PROGNOS 3.0 software provides comprehensive, easy-to-use solutions for managing safety, workers' compensation, occupational health, and disability programs. PROGNOS Version 3.0 makes it easy to streamline the management of injury and illness information with capabilities ranging from recording incidents and maintaining OSHA compliance, to workers' compensation self-administration and lost-time case management. PROGNOS 3.0's comprehensive feature set is designed to assist organizations by increasing efficiency, improving data accuracy, facilitating workflow management, decreasing injury rates, and reducing the total cost of incidents, injuries, and disabilities.

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Safety Products

POWER CLIMBER, A DIVISION OF SAFE WORKS

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Power Climber manufactures powered hoists, work baskets and fall arrest/safety products for the industrial and commercial construction markets. Their products have been used on every type of structure and by every type of contractor. Join the winning team by going Power Climber! For more information, detailed specs or product literature on work baskets—aluminum or steel, work platforms, air or electric hoists, rigging devices, or any models of harnesses, lanyards, beam clamps, retractables, roof anchors and rope grabs, give us a call at 1-800-560-CLIMB.

PUCUDA INC.

Leading Edge Safety System
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Leading Edge safety system is a leader in design and production of safety and debris netting systems for the construction industry.

SAFWAY SERVICES, INC.

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Scaffold Training—TRN 100: Scaffold User OSHA Awareness Seminar: This 2hr seminar is an overview of the Federal OSHA Regulations, 1926, Subpart L. TRN 120: Scaffold Safety and Compliance Seminar: This 4hr-6hr training seminar covers the Federal OSHA Regulations, 1926, Subpart L. We have a

separate class for supported scaffolds and for suspended scaffolds. Hands-on training may also be added to the class. TRN 1000: Scaffold Erector Course: The Scaffold Erector Course is our most comprehensive training class. It requires 3 days of classroom training and ½ day of hands-on training.

CD Training: Individual and Group User Training CDs for Sectional and Systems

Scaffold™ allows people to train at their own pace. Each CD contains a user course and erector course. Ask about how to get your free copy of the Individual CDs!

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sellstrom

Protecting the world's work force since 1923

Since 1923, Sellstrom has been providing personal protective equipment to the world's work force. We are committed to giving workers products that combine the quality they have come to trust with affordability and unbeatable service. Sellstrom offers an array of safety equipment including goggles, protective eye-wear, welding helmets and accessories, auto-darkening filters, respiratory equipment, emergency eyewash and shower units, hard hats, face shields, fall-protection devices and systems, and more. With over 1,500 products, Sellstrom lives up to its Safety Central name. By continually engineering, manufacturing and marketing the finest safety products available, Sellstrom will take occupational safety to another level in the 21st century.

THE SHERWIN-WILLIAMS COMPANY

101 Prospect Avenue N.W.
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Sherwin-Williams Industrial and Marine Coatings group serves North America with a broad line of high-performance coatings, comprehensive technical service, and the industry's largest distribution network. Relying on more than 135 years of experience in formulating industrial coatings, the group provides cost-effective solutions for the applications where extreme corrosion, abrasion and chemical attack are present.

When plant safety is a concern, consider Fast Glo Acrylic Safety Marking Paint, new from Sherwin-Williams Industrial and Marine Coatings group. The single-component acrylic has a phosphorescent, luminescent pigment that enables the paint to glow yellow/green in the dark for up to four hours. Fast Glo is ideal for improving emergency preparedness and is an



excellent choice for marking aisles, emergency routes, boundaries and stairways to identify safe passageways in the event of a power outage or failure of back-up power systems.

When exposed to artificial light, Fast Glo can rejuvenate its glow-in-the-dark properties in 15 seconds. It can be applied by brush, roll or spray and is conveniently packaged in quart and gallon containers. Fast Glo's durability can be enhanced by applying protective coatings of clear acrylic, clear water-based epoxy or clear moisture-cure urethane.

SOUND SEAL

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Sound Seal, leaders in the manufacture of sound quality products for more than 25 years, offers its line of ULTRA Sound Absorption Baffles and Wall Panels to meet customers' needs for high-performance, low-cost sound absorbers. ULTRA baffles and wall panels feature a durable rip-proof, reinforced polyester film encasing the core. These products are easy to install and clean. It is available in a bright white facing that reflects light to enhance the work environment while providing highly effective sound absorption.

Sound Seal Acoustical Flexible Noise Barriers consist of loaded vinyl noise barriers that can be used in industrial, commercial, residential, and OEM applications. Flexible noise barriers are available in non-reinforced, reinforced, transparent, and foil-faced lag styles with acoustical ratings STC-20 through STC-31, and are available Class-A fire-rated per ASTM E-84.



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Spider manufactures suspended scaffolding and fall-arrest products used in the steel erection and roofing industries. Spider is the innovator of the powered work basket, modular platforms and air/electric hoists. Spider fall-arrest products are now recognized as high quality items that maintain factory-direct pricing. Our harnesses, lanyards, retractables, rope grabs, beam clamps, roof anchors, ventilation, communication and confined-space systems are all available through our network of 25 branches or online.

