

Today's

June 2024

Industrial Products & Solutions™

The Complete Purchasing Guide for Today's Industrial Market

www.tipsmag.net



CLEANTECH
INDUSTRIAL ROBOTIC CELL

Advanced Laser Cleaning
Robotic Workcells
Turbocharge Industrial
Processes

jESCOHYDRATILT™ DUMPERS



HYDRAULICALLY CONTROLLED HOPPERS

These units are ideal where control of the quantity of material dumped or the rate of discharge is critical. They operate off the hydraulic system of your forklift and come complete with male quick-disconnect hoses for easy attachment to the forklift.

jESCO® PARTITIONS



DIAMOND WIRE MESH ENCLOSURES

Send us the footprint of your project and allow our engineers to assist you on your next project!

Division 10 22 13.



CONVERT YOUR FORKLIFT INTO A WORK PLATFORM!

Available in 40", 72", 96", and 120" lengths.

jESCO® WORK PLATFORM



jESCOGARD®

PROTECTIVE GUARD RAILING

These versatile guards act as both a visual and physical barrier to help protect people and property such as aisles, docks, conveyors and other equipment. Bolted rails are designed and tested to stop a 10,000 lbs load impacting at 4 mph from breaking through. Lift-out rails shown. All hardware is included.



Call 800-529-6697
Visit www.JescoOnline.com

jESCO
— Since 1932 —[®]

Jesco Industries, Inc.
Ph: 517-542-2903 Fax: 517-542-2501
PO Box 388 Litchfield, MI 49252-0388



RHINO

SWITCHBOARD MATS

FUSEBOX SAFETY MAT™

Rhino Switchboard Mats For The "If" in Life.

Easily carried to job or construction sites, **Fusebox Safety Mat™** by Rhino provides portable insulation when working in close proximity to exposed energized equipment. around substations, transformers, switches, electrical panels, or high-voltage equipment. **Fusebox Safety Mat™** should be used in any area where Health and safety risk assessment shows a possibility of high-voltage shock.

Safety Focused. Results Driven

Rubber-insulating gloves, insulated hand tools, and switchboard-insulating mats are vital components of a successful PPE system. All should be used in conjunction with engineering safeguards and associated work practices.

Quality You Can Count On

All are tested to ASTM D178/ANSI J6.7 specifications with

Extreme-Duty Series Class 4
1/2" thick Corrugated Surface
Test Voltage 50,000 VAC
Proof Test 40,000 VAC
Recommended 36,000 VAC

certification printed on the back.
Two sizes available 2ft X 3ft and 3ft X 3ft.
Two thicknesses 1/2" and 1/4"
Available at most Electrical and
Safety Supply Houses,
ask for Rhino **Fusebox Safety Mat™**,

Heavy-Duty Series Class 2
1/4" thick Diamond Surface
Test Voltage 30,000 VAC
Proof Test 20,000 VAC
Recommended 17,000 VAC

Home Depot online or
contact us at
713-228-5543 / Info@rhinomats.com
www.rhinoswitchboardmats.com



PG 6 | Advanced Laser Cleaning Robotic Workcells
Turbocharge Industrial Processes

PG 20 | Ad Index



Pg 6

Today's Industrial Products & Solutions.

Vol. 24 Issue 5

PRESIDENT

Glen Hobson
205-441-5591
glen@tipsmag.net

ASSOCIATE PUBLISHER

Bart Beason
205-624-2180
bart@tipsmag.net

ADMINISTRATIVE DIRECTOR

Steven Hobson
steven@tipsmag.net

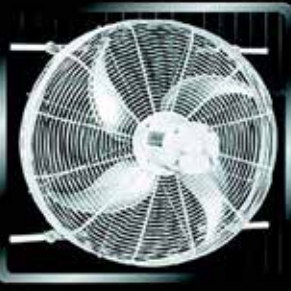
EDITOR

Brandon Greenhill
brandon@handfmedia.net

CREATIVE/ WEB DIRECTOR

Jacklyn Greenhill
jacklyn@handfmedia.net

Get Cool!



Extend
transformer
life!

Increase
transformer
capacity up
to 166%!

- expert technical assistance
- large inventory
- low sound levels
- one-piece cast aluminum blades
- energy-efficient motors
- galvanized or stainless steel guards



quality engineered, performance tested

P.O. Box 187 Germantown, Wisconsin 53022

262.255.2318

www.krenzvent.com

P.O. Box 1568 • Pelham, AL 35124
Phone: 205-441-5591 • Fax: 205-624-2185
www.tipsmag.net
info@tipsmag.net



Today's Industrial Products & Solutions™ is published ten times a year on a monthly basis by Southern Digital Publishing, Inc. *Today's Industrial Products & Solutions™* is distributed free to qualified subscribers. Non-qualified subscription rates are \$57.00 per year in the U.S. and Canada and \$84.00 per year for foreign subscribers (surface mail). U.S. Postage paid at Birmingham, Alabama and additional mailing offices.

Today's Industrial Products & Solutions™ is distributed to qualified owners and managers in the industrial industry. Publisher is not liable for all content (including editorial and illustrations provided by advertisers) of advertisements published and does not accept responsibility for any claims made against the publisher. It is the advertiser's or agency's responsibility to obtain appropriate releases on any item or individuals pictured in an advertisement. Reproduction of this magazine in whole or in part is prohibited without prior written permission from the publisher.

POSTMASTER: Send address changes to
Southern Digital Publishing, Inc. P.O. Box 1568
Pelham, AL 35124
PRINTED IN THE USA

Worn, Slippery, or Damaged Stairs?

Renovate with

STAIRMASTER®

Anti-Slip Stair Treads



#1 in Egress Safety for Over 100 Years!

- Low cost renovation
- Excellent anti-slip protection
- Withstands heavy traffic
- For indoor or outdoor use
- Quick and easy installation on any existing stair



Also available in NITEGLOW™



**PROUDLY MADE
IN THE USA**

Specify Wooster

"Make Every Step a Safe One"

1.800.321.4936

www.woosterproducts.com

sales@wooster-products.com

ELIMINATE FALL HAZARDS

AT YOUR FACILITY WITH THE SRC360 MOBILE RAIL SYSTEM



SAFETY RAILINGS ARE YOUR BEST DEFENSE

- COMPREHENSIVE FALL PROTECTION
- NO HARNESS REQUIRED
- COMPLIANCE FOR ALL TRADES ON YOUR ROOF

FROM START TO FINISH, FALL PROTECTION AND PEACE OF MIND HAVE NEVER BEEN EASIER


OSHA COMPLIANT | NON-PENETRATING | EASY INSTALLATION

We offer a full menu of fall protection products addressing individual hazards or combined together for a comprehensive, 100% fall protection solution for the entire facility.

- EXPERT ADVICE
- FACILITY SITE SURVEYS & CAD MODELING
- FULFILLMENT, DELIVERY, INSTALL & SIGNOFF



PROTECT LIVES.
BE OSHA COMPLIANT.
CONTACT US TODAY.

MADE IN USA 

ANALYZE • SPECIFY • MANUFACTURE • INSTALL

ASK ABOUT OUR TURNKEY SOLUTION PACKAGE



SafetyRailCompany
Fall Protection for Life and Compliance

SAFETYRAILCOMPANY.COM | 888.434.2720

SAFETY FIRST

OPTIMIZE YOUR WORKSPACE

Available in both
CHAIN & CABLE
Configurations



- Customizable height and reach to best fit your space.
- Ergonomic positioning for easy low strain use.
- Create a safe, efficient work environment.



The Sky Hook is your personal safety lifting solution, preventing lifting injuries while saving you both time and money!

800-4-SKYHOOK

800-475-9466 • 208-365-5770

www.skyhookmfr.com



By Del Williams



Advanced Laser Cleaning Robotic Workcells Turbocharge Industrial Processes

Enclosed robotic laser parts cleaning systems are poised to safely remove rust and contamination as well as condition surfaces at dramatically higher volumes and at lower cost than conventional methods.

Today, advancements in industrial laser cleaning automation show great promise in boosting productivity and safety when rust and contaminant removal or surface preparation is required for higher volumes of components and equipment.

Specifically, combining lasers and advanced robotics within enclosed workcells enables operators to efficiently and repeatedly clean components of different sizes, shapes, and materials on a level previously unattainable through manual methods.

“Automated laser cleaning systems are designed to cost-effectively clean high volumes of even the largest format parts and equipment and can be tailored to suit the size and complexity of the parts, while eliminating concerns over operator safety,” says Wayne Tupuola, CEO, Orlando, Florida-based Laser Photonics (NASDAQ: LASE), a leading global industrial developer of laser systems for cleaning and other material processing applications.

GRACE

CONNECTED SAFETY

LONE WORKER PROTECTION
FALL PROTECTION
SUSPENSION TRAUMA PREVENTION

 SECURE 1/2 MILE
LINE-OF-SIGHT 



ASSIGNED MONITORING ATTENDANTS



Grace Web Portal Dashboard



Custom Check-In Schedule



TEXT/Email Notification

Receive a GPS Map Link

Check-In System



LEARN MORE



GRACE GATEWAYS

Iridium Satellite/Cellular

Mobile or Portable Worksite Models

SALTI™ System Loop Test Indicator

Supports up to 20 Grace Pendants



WORKFORCE® LONE WORKER PENDANT

Fall Detection

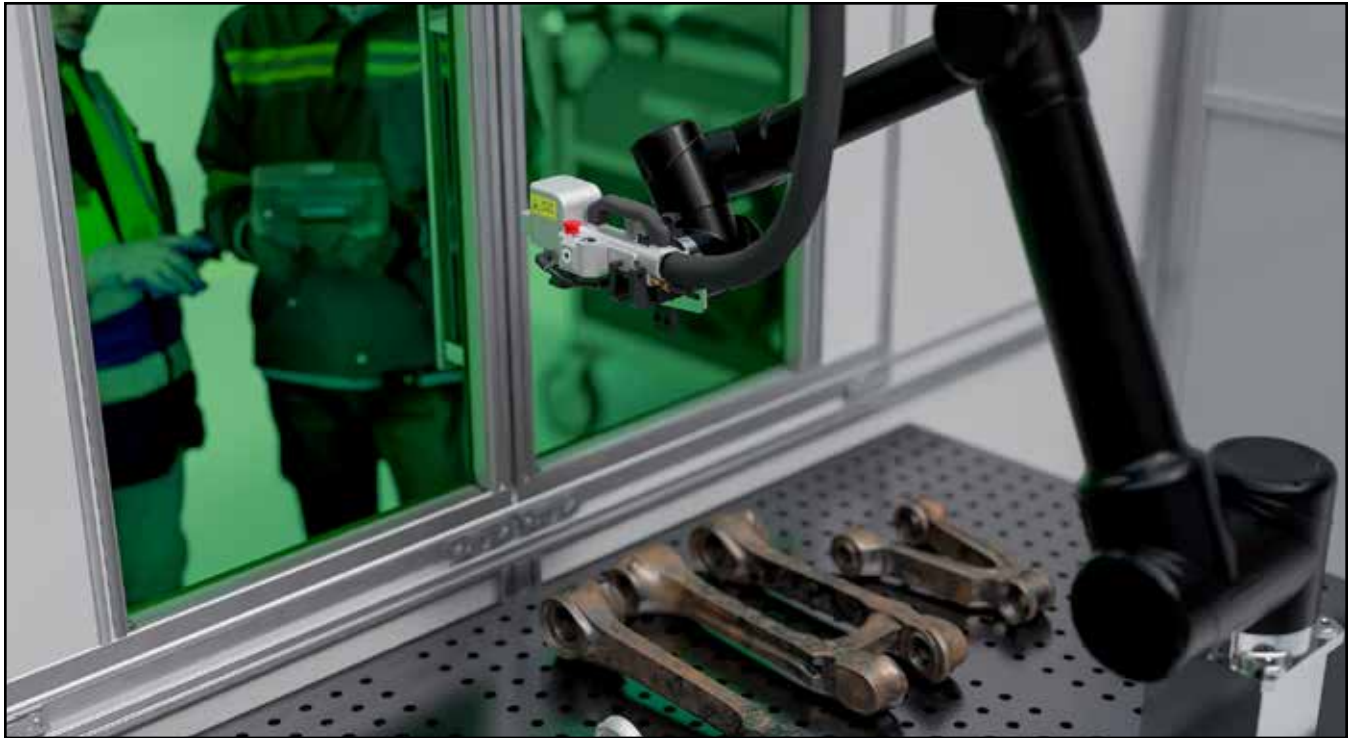
Manual Panic Button

Motion Detection

GPS Location



GRACECONNECTEDSAFETY.COM



Industrial manufacturers frequently need to remove corrosion, grease, residue, and old coatings, or roughen the surface of metals prior to coating components and equipment. At times, contaminants or toxic substances need to be eliminated before further processing.

The challenge is that conventional methods like sandblasting, dry ice blasting, and chemical stripping are messy, time and labor intensive including preparation and cleanup, and require costly consumables. These methods can also pose risks to applicators and the environment so are scrutinized by regulators like OSHA and EPA.

As a much more efficient alternative, a laser cleaning robotic workcell usually consists of at least one laser-welding robot, controllers, and safety equipment in a custom, see-through enclosure. These collaborative robots, or cobots, excel at tasks like the laser cleaning of parts which involve repetition, freeing up employees to work on other

activities.

The CleanTech Robotic Cell from Laser Photonics, for example, utilizes a robotic arm that holds a “laser gun” with cleaning, roughening, and finishing capabilities. The robotic arm is programmable via a tablet/controller where the operator would input the coordinates for material processing. The cleaning laser can be replaced with a welding or cutting laser. If required, the workcell can be split into two sections – the robot cleans on one side, while an operator installs a part to be cleaned on the other side.

“The operator can lay out several components for cleaning over the flatbed, set the cleaning coordinates, and leave the robot processing,” explains Tupuola.

He points to advancements in laser technology that complement and expedite the efficient cleaning of such shapes.

INDUSTRIAL ROOFTOP SAFETY MADE SIMPLE

TURN-KEY SAFETY RAIL SOLUTIONS FROM START TO FINISH
INSPECT | SPECIFY | BUILD | INSTALL



SRC Mobile Safety Rails set the industry standard for OSHA compliant safety solutions to prevent falls and injury.



PROTECT LIVES.
BE OSHA COMPLIANT.
CONTACT US TODAY.



SafetyRailCompany
Fall Protection for Life and Compliance

SAFETYRAILCOMPANY.COM | 888.434.2720



“Dual axis laser technology enables the cleaning of target areas more effectively and quickly if they are complex and uneven,” adds Tupuola. “Plus, our proprietary technologies allow the laser to move in various directions and clean hard-to-reach areas.”

Manufacturers of larger format components can find useful laser systems like Laser Photonics’ CleanTech Titan FX, which offers up to a 6’ x 12’ work envelope for automated laser cleaning, rust removal, and surface conditioning. This industrial, turnkey laser cleaning giant can operate as a standalone unit or be easily integrated into a production line environment.

“Large format automated laser cleaning systems can expedite the processing of [applications like] automotive tire rims, molds, oil and gas flanges, or even sheets for the hull of a ship or other vessel,” says Tupuola. He notes that the size and con-

figuration of the enclosures can be customized to accommodate the size and nature of the parts that require cleaning, with the lasers operating at a range of power levels.

Another significant benefit to such automation is improved operator and environment safety.

“For extra safety, our custom-tailored automated laser systems are enclosed in a Class I safety workcell. We can also integrate dust and residue collection, as well as a fume extractor that captures vapors during the cleaning of toxic substances,” says Tupuola.

This type of advanced laser cleaning equipment is designed to accommodate rigorous safety regulations. As an example, Laser Photonics’ CleanTech systems can help businesses achieve compliance with OSHA regulations and make environmentally responsible decisions in accordance with EPA’s

Why Laser Lines and Projected Signs?
Because, You're Sick of Painting & Taping!

NEW SOCIAL DISTANCING GOBO Images For LightCop.



www.LTBLtech.com

615.593.0510

waste management guidelines.

Abrasive sandblasting involves forcefully projecting a stream of abrasive particles onto a surface, usually with compressed air or steam. The silica sand used in abrasive blasting typically fractures into fine particles and becomes airborne, which can cause serious or fatal respiratory disease. Particles from the coatings, plating, anodizing, corrosion, and even lead paint being removed can also be inhaled. To avoid breathing in particulates, operators must wear full HEPA suits when sandblasting.

With chemical stripping, harsh chemicals are used to strip metal-based objects of paint, rust, and other contaminants to bare metal – potentially exposing operators to corrosive acids and noxious chemical fumes. In addition, disposing of toxic

chemicals is costly and closely regulated. Laser cleaning seeks to solve or minimize these issues.

Unlike conventional methods, the laser cleaning systems require no consumables other than electric power, minimal labor, and minimal maintenance. The longevity and low-maintenance design of these industrial-grade robotic laser cleaning systems further adds to their value, increasing ROI, and making replacement unnecessary for decades.

Programming the laser ablation procedure with a cobot workcell can be accomplished with a touchscreen. Generally, programming includes setting coordinates for the sample, ablation pattern, power output, and cleaning speed, according to Tupuola.



OIL ALERT[®] **LIQUID LEAK DETECTOR**

DETECT OIL LEAKS AND SPILLS...FAST!

- **AVOID OPERATIONS SHUT-DOWN**
- **REDUCE ENVIRONMENTAL RISKS**
- **MINIMIZE COSTLY CLEAN-UP**
- **MONITOR OFF-SITE EQUIPMENT**

A small amount of oil (1/32 inch) seeping under Oil Alert activates its loud "on/off" alarm and/or relay contact output. The low profile dome shaped unit guards against undetected leakage in areas of oil lubricated / hydraulic equipment, stand-by generators, pressurized piping and fuel oil storage locations...

5 year Limited Warranty

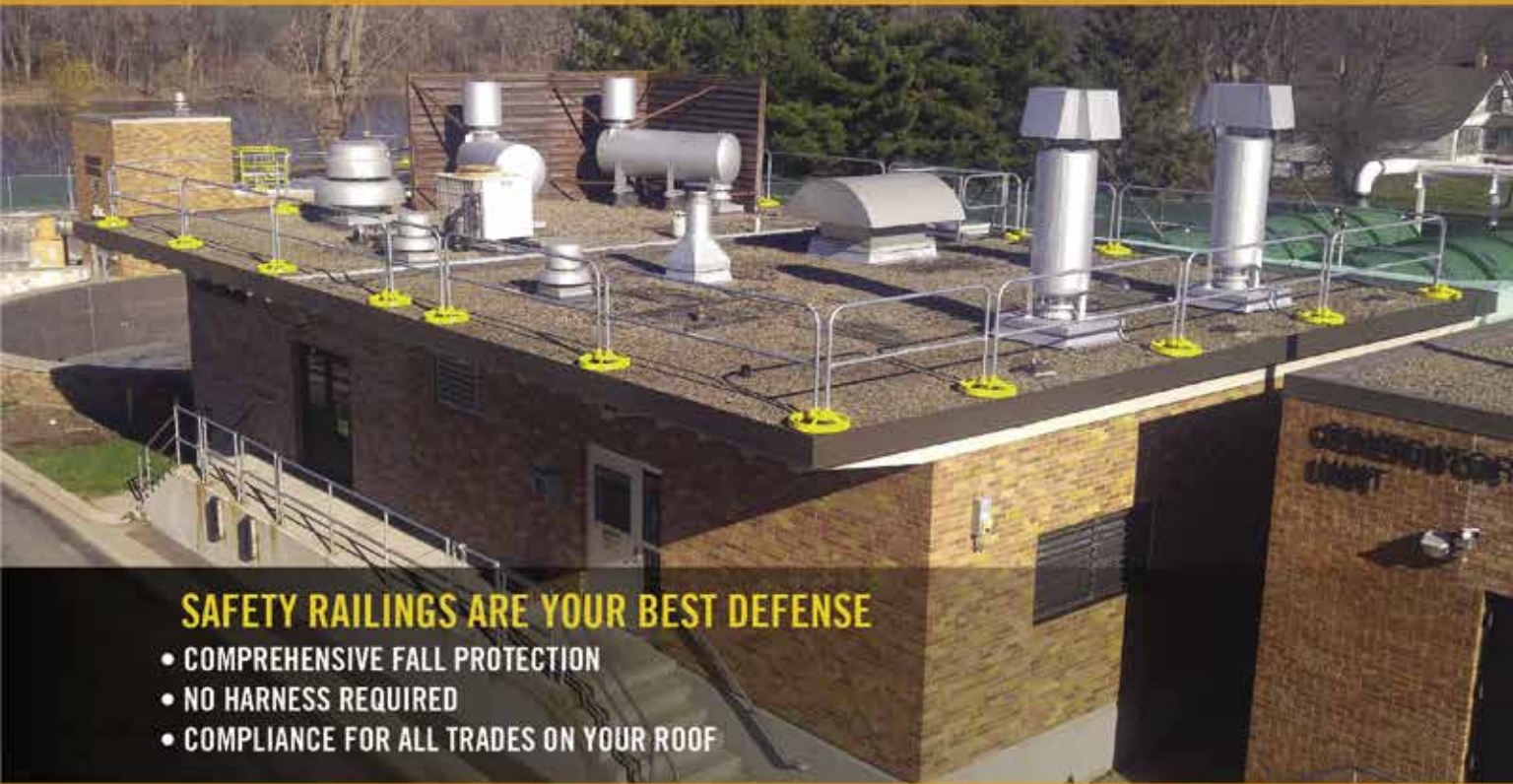
DORLEN Products Inc.
6615 W. Layton Ave. Milwaukee, WI. 53220

Go to WWW.OIL-ALERT.COM
OR CALL: 1-800-533-6392
FOR MORE INFO!!



ELIMINATE FALL HAZARDS

AT YOUR FACILITY WITH THE SRC360 MOBILE RAIL SYSTEM



SAFETY RAILINGS ARE YOUR BEST DEFENSE

- COMPREHENSIVE FALL PROTECTION
- NO HARNESS REQUIRED
- COMPLIANCE FOR ALL TRADES ON YOUR ROOF

FROM START TO FINISH, FALL PROTECTION AND PEACE OF MIND HAVE NEVER BEEN EASIER


OSHA COMPLIANT | NON-PENETRATING | EASY INSTALLATION

We offer a full menu of fall protection products addressing individual hazards or combined together for a comprehensive, 100% fall protection solution for the entire facility.

- EXPERT ADVICE
- FACILITY SITE SURVEYS & CAD MODELING
- FULFILLMENT, DELIVERY, INSTALL & SIGNOFF



PROTECT LIVES.
BE OSHA COMPLIANT.
CONTACT US TODAY.

MADE IN USA 

ANALYZE • SPECIFY • MANUFACTURE • INSTALL

ASK ABOUT OUR TURNKEY SOLUTION PACKAGE



SafetyRailCompany
Fall Protection for Life and Compliance

SAFETYRAILCOMPANY.COM | 888.434.2720



"Installation and programming are needed, but once it's set up, robotic cell cleaning is fast, precise, thorough, and controlled. So, it's a very convenient, optimized process if the parts being cleaned are the same," says Tupuola.

Tupuola adds that Laser Photonics is now working on integrating 3D scanners into the robotic work-

cell. This would automate the focusing of the laser and eliminate some of the programming now done by an operator.

While precision laser-based systems have been effectively used to remove rust, residues, contaminants, and paint, this approach commonly involves manual labor. Automated robotic laser cleaning systems provide manufacturers safer, easier, more eco-friendly options.

To meet demand more efficiently, a growing number of manufacturers across a wide range of industries will increasingly turn to these laser systems to cost-effectively clean higher volumes of components with the control and speed required for decades to come.

For more information on laser cleaning solutions for surface preparation, contact Laser Photonics at (407) 804-1000 or visit www.laserphotonics.com •



An ounce of prevention is worth a pound of cure



Line Guard | Pole Guard | BirdBloc
Learn More at CritterGuard.org



"As a safety professional, you always want your workers to have access to leading edge safety tools that improve safety and focus.

Working with **COOLSHIRT SYSTEMS** over the past two years allowed me to help design a tool **by linemen for linemen**.

The **A.R.C. Hybrid Cooling System** by **COOLSHIRT SYSTEMS** allows linemen to remain more focused and less fatigued by reducing their core body temperature in extreme environments, therefore reducing the possibility of unintended accidents."

-James "Jim" Bonner
Compliance Coordinator- Retired
Alabama Power



A.R.C. Hybrid Cooling System

Complete Arc Rated Portable Cooling Solution

Developed in conjunction with major power companies for use in extreme heat conditions, the **A.R.C. Hybrid Cooling System** uses liquid cooling to reduce fatigue, injury, and heat stress related illness.

Designed specifically for use by linemen, the **A.R.C. Hybrid Cooling System** features a compact design with a custom woven strap mounting system. The use of S-hooks offers the versatility of mounting inside or outside of the bucket.

Designed with portability in mind, measuring **6" x 6" x 20"** and weighing in at **less than 10 lbs dry**. The unit is entirely self-contained and built to last with a 20,000 hour pump.



A.R.C. Hybrid Cooling System

2002-0017



COOLSHIRT
TEMPERATURE CONTROLLED GARMENTS

ELIMINATE FALL HAZARDS

AT YOUR FACILITY WITH THE SRC360 MOBILE RAIL SYSTEM



SAFETY RAILINGS ARE YOUR BEST DEFENSE

- COMPREHENSIVE FALL PROTECTION
- NO HARNESS REQUIRED
- COMPLIANCE FOR ALL TRADES ON YOUR ROOF

FROM START TO FINISH, FALL PROTECTION AND PEACE OF MIND HAVE NEVER BEEN EASIER


OSHA COMPLIANT | NON-PENETRATING | EASY INSTALLATION

We offer a full menu of fall protection products addressing individual hazards or combined together for a comprehensive, 100% fall protection solution for the entire facility.

- EXPERT ADVICE
- FACILITY SITE SURVEYS & CAD MODELING
- FULFILLMENT, DELIVERY, INSTALL & SIGNOFF



PROTECT LIVES.
BE OSHA COMPLIANT.
CONTACT US TODAY.

MADE IN USA 

ANALYZE • SPECIFY • MANUFACTURE • INSTALL

ASK ABOUT OUR TURNKEY SOLUTION PACKAGE



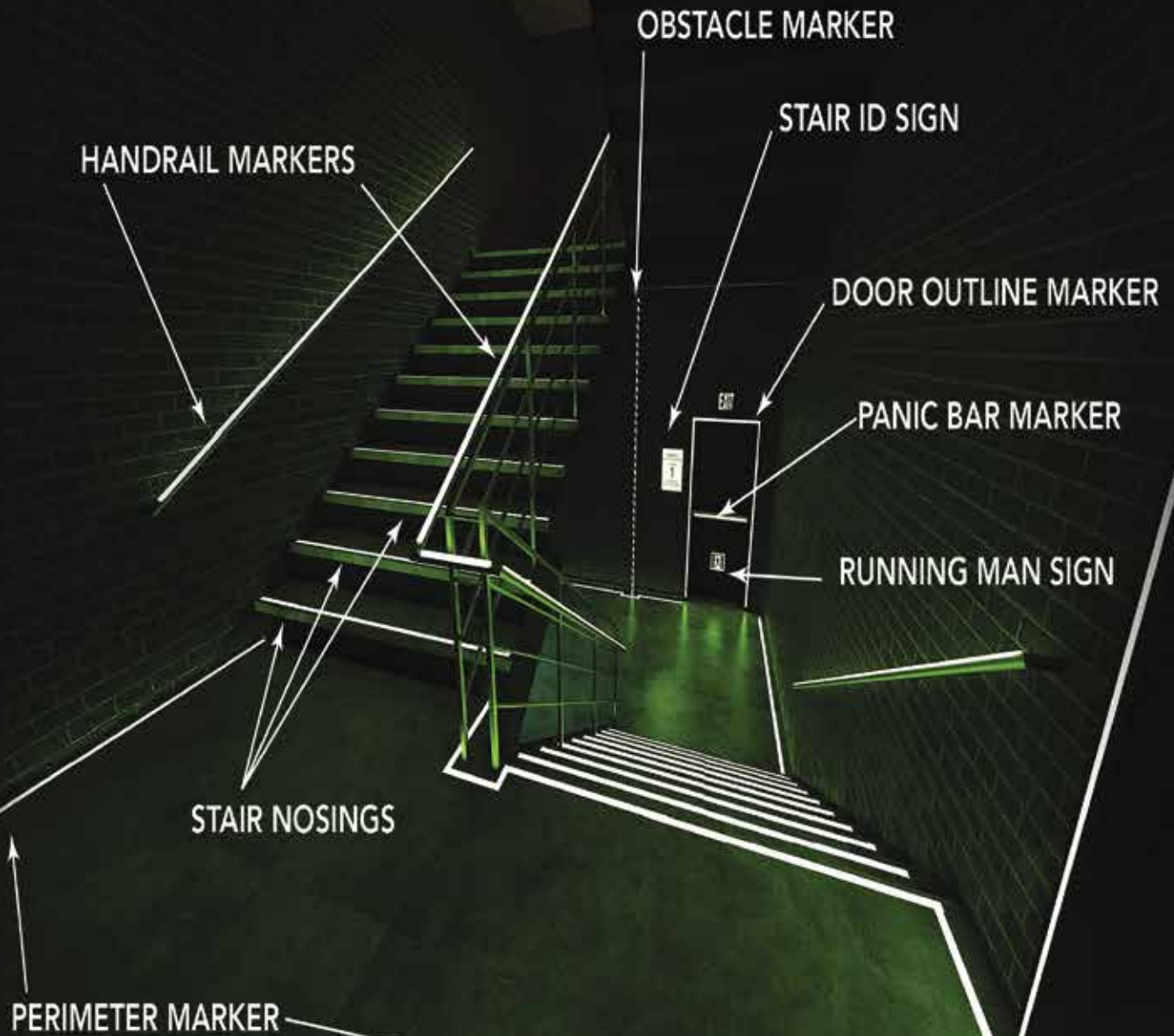
SafetyRailCompany
Fall Protection for Life and Compliance

SAFETYRAILCOMPANY.COM | 888.434.2720

Safe-T-Nose®

LEAVE NO DOUBT • THIS WAY OUT • EXIT SAFELY

SAFETNOSE.COM • 1-855-723-6673



**IFC/IBC REQUIRED EGRESS
MARKINGS AND SIGNS**

"PROP THAT DOOR OPEN WITH THE PROPPER"

Commercial, Residential, Industrial, Hotel/Motel & Deliveries

- Compact, Lightweight - Only 5 oz.
- Magnitized for Convenient Storage
- Easy To Open, Folds When Not In Use
- Safe, Secure Design, Never Slips Off Hinge



WWW.THEPROPPERSHOP.COM



MADE IN USA

SALES@THEPROPPERSHOP.COM



From Basement to Roof
Track Moisture Problems

**Moisture Meters
and Data Loggers**

**for all Applications
in the Building Industry**

Need a moisture meter? Buy Lignomat.
We make accurate, easy-to-use meters.



Scan QR Code or
call and talk to one
of our meter experts.

Lignomat, Portland, OR USA

800-227-2105

Lignomat
moisture measurement

Payroll People meet at a Tradeshow

Our payroll takes 2 minutes to prepare and keeps us compliant with the DAVIS BACON ACT

Our payroll takes many hours and 3 people to put together

We get an 80% savings in time and money with compliant client - compared to manually prepared payroll

Compliant client sounds great. My friend's construction company was heavily fined being out of compliant. He might go to jail!

I USE COMPLIANT CLIENT BY EMARS

WE MANUALLY PREPARE PAYROLL

Our payroll is certified, worry Free and very inexpensive plus it is DOL APPROVED

- Encrypted
- Free Demo
- Works with Excel
- 55,000 + Client
- Web Based
- Paperless
- Works with Time Clock

Compliant
client
by eMars

emarsinc.com
480-595-0466

Ad Index

Company	Pg.	Website
Coolshirt	15	www.coolshirt.com
Critter Guard	14	www.critterguard.org
Dorlen	12	www.dorlen.com
eMars Inc	19	www.emarsinc.com
Grace Industries	7	www.graceconnectedsafety.com
Jesco	IFC	www.jescoonline.com
Krenz Vent	2	www.krenzvent.com
Lignomat	18	www.lignomat.com
LTBL Tech	11	www.ltbltech.com
Propper Stopper	18	www.propperstopper.com
Rhino Switchboard Mats	1	www.rhinoswitchboardmats.com
Safe T Nose	17, BC	www.safetnose.com
Safety Rail Co	4, 16, IBC	www.safetyrailcompany.com
Sky Hook	5	www.skyhook.com
Wooster Products	3	www.woosterproducts.com
Working Concepts	20	www.safeworker.com

Work shouldn't hurt.

SOFT KNEES®
No-Strap Knee Pads

STOP a LADDER®
Another fine **ergoKNEEL** product
www.ergokneel.com

NEW SIZE

888-456-3372 • www.safeworker.com • info@safeworker.com

REDEFINING COMPREHENSIVE ROOFTOP SAFETY

TURN-KEY SAFETY RAIL SOLUTIONS FROM START TO FINISH
INSPECT | SPECIFY | BUILD | INSTALL



SRC Mobile Safety Rails set the industry standard for OSHA compliant safety solutions to prevent falls and injury.



PROTECT LIVES.
BE OSHA COMPLIANT.
CONTACT US TODAY.



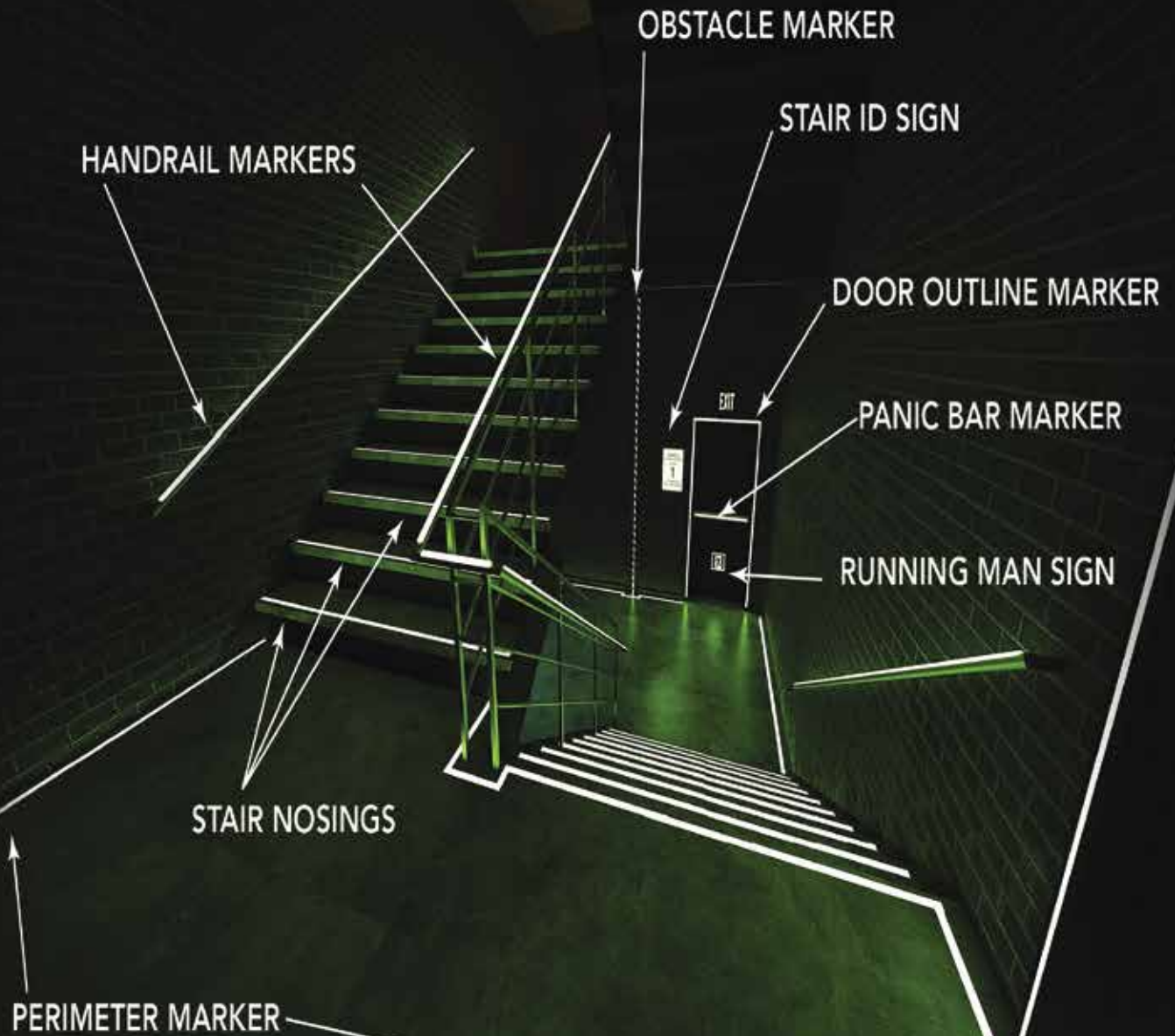
SafetyRailCompany
Fall Protection for Life and Compliance

SAFETYRAILCOMPANY.COM | 888.434.2720

Safe-T-Nose®

LEAVE NO DOUBT • THIS WAY OUT • EXIT SAFELY

SAFETNOSE.COM • 1-855-723-6673



**IFC/IBC REQUIRED EGRESS
MARKINGS AND SIGNS**