

Today's

September 2022

# Industrial Products & Solutions™

*The Complete Purchasing Guide for Today's Industrial Market*

[www.tipsmag.net](http://www.tipsmag.net)

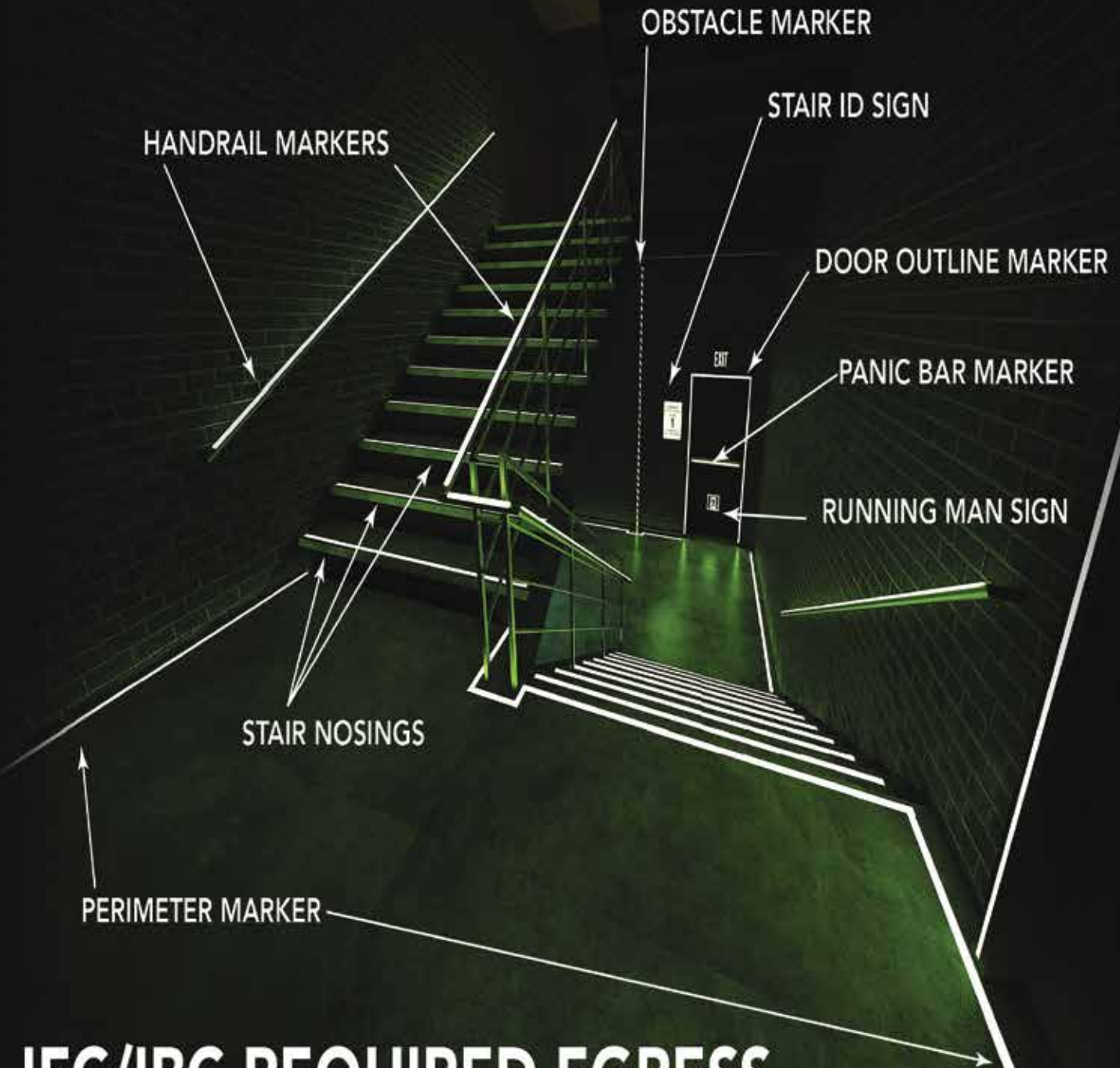
An Alarming  
Trend in Process  
Control Systems

Industrial Safety: Preventing Slips  
and Falls Virtually Everywhere

# Safe-T-Nose<sup>®</sup>

LEAVE NO DOUBT • THIS WAY OUT • EXIT SAFELY

SAFETNOSE.COM • 1-855-723-6673



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

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

## NEW SOCIAL DISTANCING GOBO Images For LightCop.



[www.LTBLtech.com](http://www.LTBLtech.com)

615.593.0510

PG 4	Raising the Standard of Corrosion Protection for Routine Packaging of Metals
PG 8	Industrial Safety: Preventing Slips and Falls Virtually Everywhere
PG 18	An Alarming Trend in Process Control Systems
PG 28	Ad Index



**Pg 18**

# Today's Industrial Products & Solutions

Vol. 22 Issue 9

**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

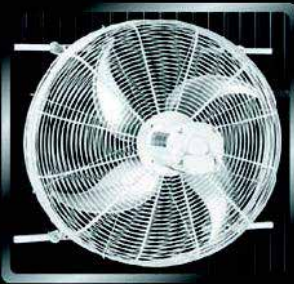
**EDITOR**

Brandon Greenhill  
brandon@handfmedia.net

**CREATIVE/ WEB DIRECTOR**

Jacklyn Greenhill  
jacklyn@handfmedia.net

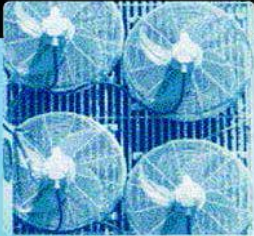
## Get Cool!



**Extend transformer life!**

**Increase transformer capacity up to 166%!**

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



quality engineered, performance tested

p.o. box 187 germantown, wisconsin 53022

262.255.2310

[www.krenzvent.com](http://www.krenzvent.com)

P.O. Box 1568 • Pelham, AL 35124  
Phone: 205-441-5591 • Fax: 205-624-2185  
[www.tipsmag.net](http://www.tipsmag.net)  
[info@tipsmag.net](mailto: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

# 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

# Raising the Standard of Corrosion Protection for Routine Packaging of Metals

---

When packaging metal components for shipment or storage, it is important to consider the length of time and environment to which the package will be exposed. The potential for fluctuating temperatures, humidity, and moisture condensation prompts manufacturers to routinely add desiccant pouches to absorb moisture and ideally fend off corrosion. However, this standard shipping and storage procedure is limited in its protection powers. Manufacturers and asset owners can easily raise the standard of protection by supplementing or replacing desiccant with a Cor-Pak® 1-MUL/8-MUL Pouch from Cortec® Corporation.

## *Passive vs. Active Corrosion Protection*

Desiccant serves the important purpose of absorbing moisture to protect moisture-sensitive goods. However, when used in this way to inhibit corrosion on metals, protection is limited. Desiccant offers passive protection by only eliminating the source of the problem to the extent that it can absorb moisture. Unfortunately, if there is not enough desiccant to absorb all moisture in the environment, the attempt at corrosion protection may fail.

In contrast, Cor-Pak® 1-MUL/8-MUL Pouches offer active corrosion protection, even in the presence of residual moisture. Vapor phase Corrosion Inhibitor powder inside the pouches vaporize and escape through the pouch's breathable membrane, traveling to and adsorbing on all metal

surfaces in the enclosure. This VpCI® molecular layer actively protects the metal by hindering the normal corrosion reaction between metal, oxygen, and an electrolyte (e.g., water) from taking place. When the package is opened and the metal components removed, the VpCI® layer does not require cleaning because it simply evaporates.

## *How to Use Cor-Pak® 1-MUL/8-MUL Pouches*

Cor-Pak® 1-MUL/8-MUL Pouches can be used alone or in conjunction with desiccant or other VpCI® packaging materials. Application is very similar to desiccant pouches; Cor-Pak® 1-MUL Pouches are easy to insert into the package manually or automatically. As its name implies, one Cor-Pak® 1-MUL Pouch provides enough protection for up to 1.0 cubic foot (28 L) of enclosed space. One Cor-Pak® 8-MUL Pouch provides enough protection for up to 8 cubic feet (0.23 m<sup>3</sup>). The pouches can be added as the sole source of corrosion protection inside standard corrugated





# STRUCTURAL STEEL CO., INC.

## Pre-Engineered Buildings Built to Withstand The Rugged Northeast Winters

- Commercial, Industrial and Agricultural Buildings Built to Satisfy Your Building Needs
  - Pre-Engineered Steel Packages
  - Pre-Engineered Post Frame Packages
  - Mini Storage Buildings



*Call For a Quote On  
Your Next Project*

***We Manufacture 26 & 29 ga.  
Steel Roofing & Siding***



# STRUCTURAL STEEL CO., INC.



607 Rt. 13 S, Cortland, NY 13045

**National: 1-800-323-7739**



(607) 753-9384 • Fax: (607) 753-6272 • [www.essexsteel.com](http://www.essexsteel.com)

# WE HAVE THE ROPE TO GET THE JOB DONE.



**BUCCANEER**  
rope company  
*Providing strength & stability, with a twist.*

boxes, plastic bags, or wood or metal containers. They can also be used as an extra source of VpCI® to complement other VpCI® packaging materials. For example, while VpCI®-126 Bags or Film do emit Vapor phase Corrosion Inhibitors, adding a Cor-Pak® 1-MUL or 8-MUL Pouch ensures a plentiful dose of VpCI® is present within the container when extra protection may be needed based on the size of the enclosure, the length of the storage period, or the harshness of the environment.

#### *Where to Use Cor-Pak® 1-MUL/8-MUL Pouch*

The Cor-Pak® 1-MUL/8-MUL Pouch can be used for almost any metal part that is packaged in a relatively small enclosure. Possible uses include protection of

- Completed assemblies, parts, and components
- Parts in antistatic packages
- Motors
- Mechanical controls
- Precision machined or stamped parts
- Marine and commercial electronic equipment
- Tools

Real life examples range from storing power plant spare fuses with a Cor-Pak® 1-MUL Pouch inside a VpCI®-126 EM UV Bag, to long-term storage of rear differential units (automotive service parts that might not be needed for 15 years) with a Cor-Pak® 1-MUL/8-MUL Pouch wrapped inside Cor-Lam® LD VpCI® Barrier Laminate.

Whatever the need, Cor-Pak® 1-MUL/8-MUL Pouches are a convenient way to add corrosion protection inside packaging or storage enclosures for an added safeguard in the presence—or absence—of moisture. Contact Cortec® to learn more:

[www.cortecpackaging.com/contact-us/](http://www.cortecpackaging.com/contact-us/) •





# SAFELY Lifts Up To 500 lbs!

- Ergonomic
- Portable
- Lightweight
- Meets OSHA & ASME Requirements

## Customized Safety Lifting Devices For Any Application

Available in both  
**CHAIN & CABLE**  
Configurations



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](http://www.skyhookmfr.com)

**SKY HOOK**

ATTCO, Inc. OSA  
by SYCLONE ATTCO SERVICE



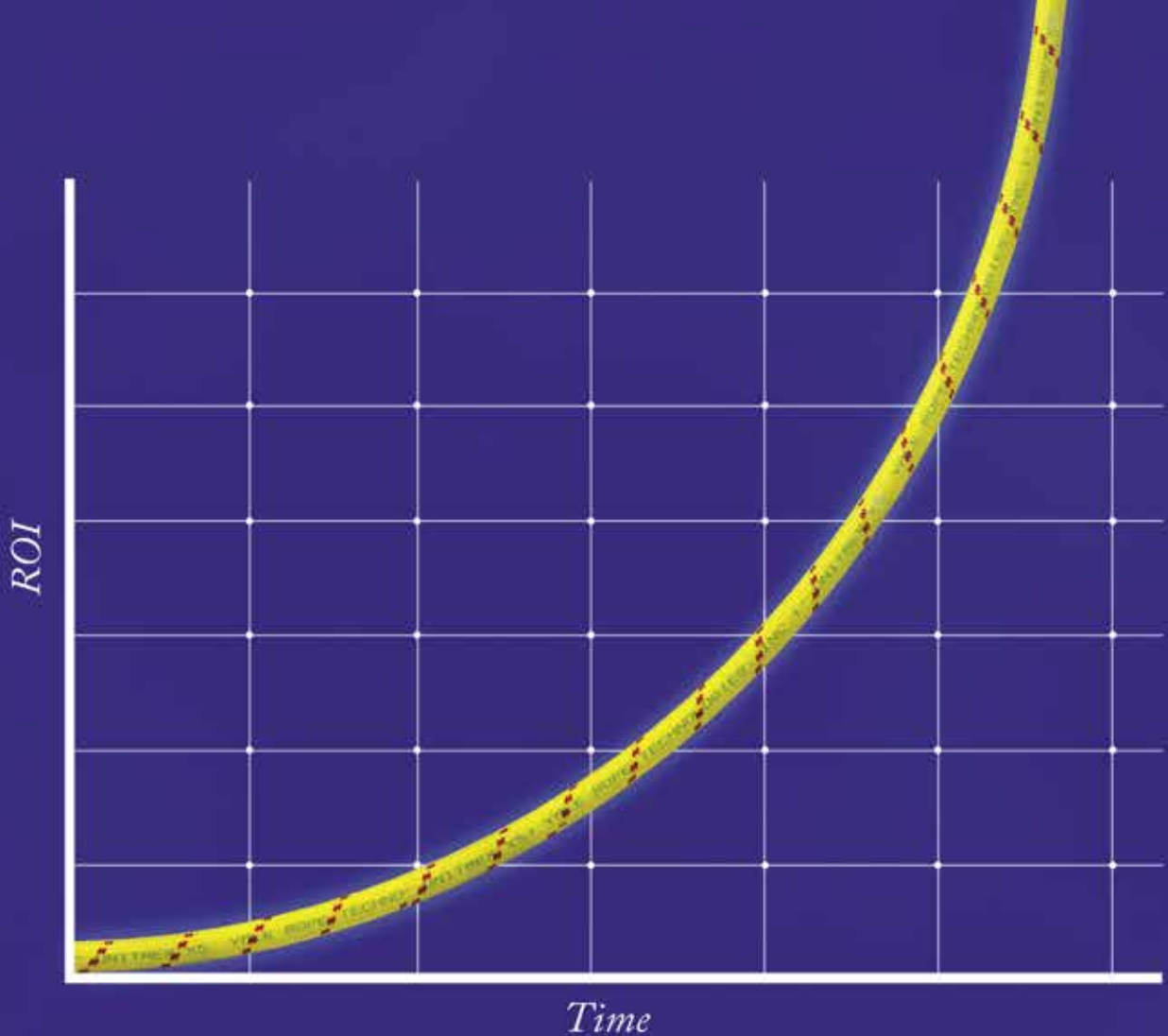
# Industrial Safety: Preventing Slips and Falls Virtually Everywhere

*A new type of durable safety coating is increasing traction and reducing maintenance on floors, loading docks, platforms, ramps, walkways, and truck trailers*

Industrial manufacturing, warehouse, and distribution centers can have hundreds of thousands of square feet of production and storage space that is prone to dangerous slips, trips, and falls. The risk is heightened when surfaces are wet from cleaning, spills are present, and personnel are busy with work tasks. Cold storage can be slippery due to condensation or ice melt. Other areas can be also susceptible to slip and fall risk when subject to wet weather outdoors.

According to The National Institute for Occupational Safety and Health (NIOSH)'s Traumatic Occupational Injuries Fast Facts webpage, the "most recent traumatic injury data show [that] 27% of the 888,220 nonfatal work injuries resulting in days away from work in 2019 were related to slips, trips, and falls."

Slips result from a loss of balance caused by too little friction between people's feet and the surface they walk or work on. Loss of traction is the leading cause of workplace slips. Although convention-



## Unitrex XS™ Max Wear. Unmatched performance in the field and in the boardroom.

Electric line stringing is easier and more economical with Unitrex™. Made with a core of Honeywell Spectra®, it is up to 10 times lighter than steel, while delivering comparable strength. The urethane-coated polyester jacket provides excellent abrasion resistance for great productivity that lasts.

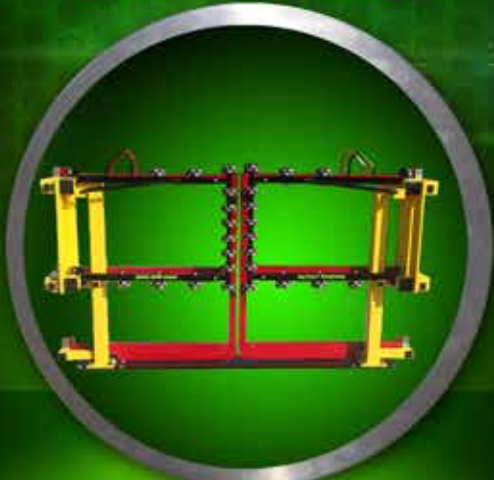
To learn more, visit [www.yalecordage.com](http://www.yalecordage.com)

**YALE CORDAGE**  
Performance. Passion. Possibilities.

77 Industrial Park Road | Saco, Maine 04072 | p (207) 282-3396, f (207) 282-4620

# Levelizer™

## E7 GATE™



Patent Pending

### **NO Space Required on Mezzanine**

A Safety gate that Requires **no power**, yet is **fully automatic**. The Levelizer™ E7 Gate requires no space on the work platform or mezzanine. Combine these facts with “you can never leave the gate open” and you have the perfect solution for your work platform or mezzanine gate guarding.

### **BEST IN CLASS DUAL SAFETY GATE!**



Up

**WATCH OUR VIDEOS!**

Down



**DMS-SITE.COM**  
**740-363-3600**



al non-slip coatings have been used to improve traction, these tend to wear quickly and need to be reapplied often at considerable expense.

Fortunately, a new category of durable, high-tech, all epoxy coating is dramatically increasing traction and improving safety in a wide range of slip and fall prone areas such as production floors, warehouse space, loading docks, platforms, ramps, walkways, emergency staircases, stair landings, and ladders. Beyond this, due to the extra traction the non-slip coating provides, it is not only being used to improve personnel footing on truck trailers but also to stabilize the heavy trailer loads.

This new type of coating is designed to last years even in areas heavily travelled on foot, which reduces the need for maintenance and replacement. The coating type can be quickly and easily applied by facility personnel, minimizing cost and facility disruption.

#### Problematic Short-Term, Non-Skid Coatings

Improving the traction of workplace walking surfaces to increase safety is not a new concept. However, traditional options quickly become compromised in industrial settings.

When companies apply conventional non-skid coatings to these surfaces, aggregate is usually mixed in or sprinkled on top in an attempt to embed it in the coating to enhance traction. The challenge is that the aggregate quickly pulls loose from most coatings, impairing traction, for a couple of reasons.

When aggregate is mixed into the coating, a problem emerges with low viscosity, non-skid products.



## Custom Insurance for the Construction Industry

### With XINSURANCE, You Get...

- All-In-One Approach
- Agent Friendly
- Limits up to \$10MM
- Property & Casualty
- Professional Liability
- Commercial Auto Liability  
(available in most states)
- Products Liability
- Exclusions/Gaps in Current Coverage & More

Ask us  
about our new  
coverage option –  
Communicable  
Disease  
Liability



To get your free  
custom insurance  
quote for the  
construction industry,  
visit [www.xinsurance.com](http://www.xinsurance.com)

You can also contact  
Logan Fitzgerald directly at  
**801.304.5562** or  
[loganf@xinsurance.com](mailto:loganf@xinsurance.com)

XINSURANCE is powered by Evolution Insurance Brokers, LC ("EIB"), an excess and surplus lines insurance brokerage. XINSURANCE is a DBA of EIB, which is domiciled in and has its principal place of business in Sandy, Utah. This insurance product is offered by an unlicensed surplus lines insurer. The NPN for EIB is 5464658 and CA license number is OH93938.

# XINSURANCE



“The coating thickness has to be substantial enough to hold the aggregate, the non-slip material, in suspension. However, most conventional coatings cannot keep the aggregate in suspension. With low-viscosity coatings containing a low percentage of epoxy, the aggregate falls to the bottom of the bucket during mixing, so you are essentially forced to apply it on top,” says Bob Finkenaur, owner of a Veteran Owned Small Business, who has years of experience providing high-value formulated products and solutions to a wide variety of professional and consumer markets.

“Most conventional non-skid coatings also shrink considerably after application due to water or solvent evaporation. Often, when the coating dries or cures, its thickness is only about half [the thickness] of when it was wet. The relative thinness of the coating is another reason that any embedded aggregate is prone to fall out, reducing traction,” he adds.

Consequently, a new coating with additional aggregate must be reapplied frequently, and internal safety standards may only be met only a fraction of the desired time.

Long-Term Prevention of Industrial Slips and Falls  
As a solution, to improve traction and prevent slips and falls for the long-term in various industrial settings, innovators have developed a new category of extremely durable, all epoxy coatings designed to embed aggregate in the coating for years. The approach facilitates meeting internal safety standards and virtually eliminates the need for non-skid coating reapplication, reducing maintenance cost.

For example, the non-skid coating Form-A-Tread® SL (Self Leveling) by Form-A-Tread Company is a combination of a low-to-medium viscosity epoxy binder consisting of 100% solids and a specialized aggregate broadcast on top. The coating can be used in a variety of manufacturing or storage en-

# Relax On Payroll Fridays

- 5 Minute Friday Payroll
- Internet Based • Encrypted
- Avoid Jail Time and Costly Fines
- Identifies All Davis Bacon Compliance Errors
- 80% Savings of Time and Money Compared to Manual Payroll Preparation



***e - Mars, Inc.***  
"Compliance at your Fingertips"  
58,000+ Construction Clients

**eMarsinc.com**  
**Ph: 480-595-0466**

# OMEGA

## SAFETY BARRIERS & GUARDS



SAFETY BARRIERS



R-U-F PORTABLE BARRIERS



PIPE GUARDS



COLUMN GUARDS



CORNER SHIELDS



BOLLARDS



HANDRAILS & GATES



RACK GUARDS



QUIK-STEP STAIRS



TRAK-SHIELD

Downspout Pipe Guards, HDPE Bollard Covers and many other safety products available.

[www.omegaindl.com](http://www.omegaindl.com)

800-521-8272

Omega Industrial Products - The Nation's Leading Supplier Of Safety Barriers & Guarding Products

vironments on concrete, asphalt, metal diamond plate, wood, and other porous and non-porous substrates. The formulation along with its topically applied aggregate is designed for indoor and outdoor use and can last for years even when exposed to sunlight, chemicals, weather, and temperature extremes.

The patented coating provides a very durable, slip-resistant surface on industrial flooring, walkways, ramps, and other large areas with high pedestrian or vehicle traffic. The coating is easy to mix and apply by hand. Installation is fast and the surface is typically ready for use within hours. The coating has already been utilized by some giants of industry.

In the case of Consolidated Edison, Inc., one of the nation's largest investor-owned energy-delivery companies, the company's EH&S team proactively sought to reduce the risk of slip and fall incidents across multiple locations, as well as address an issue with shifting cargo loads while transporting equipment and supplies.

According to Richard Stewart, a Con Edison EH&S manager supporting Shared Services organizations, Con Edison has used the Form-A-Tread SL coating on a wide variety of surfaces and applications. This has included many high traffic areas such as a receiving warehouse in Astoria; stairways in the Bronx; walkway ramps and dock loading ramps in Staten Island; and even plastic bumpers on utility vans that can become quite slick when wet.

The innovative use to secure tractor-trailer loads would also win the team that worked on this initiative a Con Edison 2021 Con Edison EH&S Team Award. This recognized the team's extraordinary contribution to ensuring a safe workplace, achieving operational excellence, and improving how tractor-trailer loads are secured.



# INDUSTRIAL ROOFTOP SAFETY MADE SIMPLE

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



**SRC**  
**SITE SAFE**  
PROVEN PROCESS  
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

“When we got feedback from all the groups involved, they were impressed how the coating solved two issues at once,” says Stewart. “The drivers loved it because even on rainy, windy days the coating improved safety by providing sufficient traction and footing [on the aluminum trailer beds]. The improved traction also helped ensure

large cargo would not shift on the trailer during transport.”

For his involvement with the project, Stewart was part of the team recognized in a Con Edison news article, and the project won Con Edison’s EH&S Sustainability Award.

He notes that as an EH&S Manager he often responds to issues with a solution or recommendation to help eliminate similar hazards across multiple locations.

“Working with a durable non-slip coating that can be applied to a variety of materials such as metal, concrete, asphalt, and wood, allows us to use the same solution to resolve many different issues,” concludes Stewart. “It is a very customizable prod-

uct so wherever there is a need, we can use it. It gives us a lot of options.”

As industrial facilities seek to prevent slip and fall hazards across a greater range of workplace walking surfaces, implementing durable, non-skid, all epoxy coatings will effectively enhance safety for the long-term. Since the option is designed to withstand high foot traffic in many settings, it will also significantly reduce maintenance and replacement costs.

For more information: call 610-994-2138; email [info@rgfmaterials.com](mailto:info@rgfmaterials.com); visit:

[www.form-a-tread.com](http://www.form-a-tread.com) •



**Jesco**  
— Since 1932 —

Jesco Industries, Inc.  
950 Anderson Rd PO Box 388  
Litchfield, MI 49252-0388

**ProGMA**  
PROTECTIVE GUARDING MANUFACTURERS  
Safer by Design

Jesco does it best!

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

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

# NEW SOCIAL DISTANCING GOBO Images For LightCop.



**DOCK RIGHT**  
LASER DOCKING TECHNOLOGY  
Dock Right Laser System, Div. of LTBL Tech, LLC  
LOSS PREVENTION FOR THE 21ST CENTURY  
[www.LTBLtech.com](http://www.LTBLtech.com)

**LTBL** TECH "The Original"  
**LIGHTCOP**  
- Loss Prevention For The 21st Century -



[www.LTBLtech.com](http://www.LTBLtech.com)

**615.593.0510**



## An Alarming Trend in Process Control Systems

The processing industry is increasingly adopting a standards-based approach to alarm management to increase focus on actionable items and avoid alarm flooding that can lead to lost production and serious accidents

In process automation, an alarm is defined as an audible and/or visible means of indicating to the operator an equipment malfunction, process deviation, or abnormal condition requiring an operator response. But how many of today's current alarms meet this definition? Not many, according to Robert M. Ard, Director, Applications Engineering at Owings Mills, Maryland-based NovaTech Automation, Process Division, a company with extensive expertise in batch process automation.

"Is the alarm system a useful tool, or a nuisance and a distraction?" asks Ard. "When there are too many alarms, too many notifications, operators begin to tune them out."

Unfortunately, poorly performing alarm systems remain contributing factors in major accidents. Poorly designed and maintained alarm management systems can overwhelm operators with chattering and nuisance alarms under normal conditions, and debilitating alarm floods when abnormal states emerge. When this occurs, it can be difficult for operators to ascertain and act on the most critical alarms, contributing to ab-

800.557.0098 | [golight.com](http://golight.com)

# GO LIGHT



DURABLE  
VERSATILE



POWERFUL  
GUARANTEED

normal situations, lost production, and even serious accidents.

“If you read reports about industrial accidents that were blamed on alarm systems, quite often it is described as the operator had [many] alarms coming in every minute and the one [critical] alarm that really required attention was buried under all the others,” says Ard.

Part of the challenge has been establishing standardized good alarm management practices throughout the industry. However, with organizations like ANSI (American National Standards Institute) and ISA (International Society of Automation) releasing updated guidelines in recent years, along with leading process automation companies incorporating more of a standards-based approach to application development, the focus is increasingly on differentiating alarms that require immediate attention from less urgent notifications, alerts, and messaging.

#### ANSI/ISA 18.2 Standards – Definition of Alarm

The ANSI/ISA 18.2 Standard addresses the entire life cycle of alarm management from design and configuration through performance monitoring, auditing, and enforcing for the life of the control application.

According to the standard, alarms should be reserved for those events that require an operator response. In other words, if the event does not require that an operator act, it should not trigger an alarm. Alarms should not be used to inform the production staff of normal events.

“When ISA 18.2 came out, one of the key features that had the biggest impact was their definition of ‘what is an alarm?’” explains Ard. “Basically, what the ISA committee determined was that an alarm should only be used if it requires an operator’s response.

And that is probably the number one thing that most processing plants violate. They use alarms for all kinds of notifications, alerts, and reminders.”

In fact, many engineers essentially design their control system around response to alarms, instead of letting the control system function as it should.

“My question is, why is the control system relying on the operator to [function]? The control system should be handling that,” says Ard. “Rather than create an alarm and rely on the operator to make an adjustment, if it is possible for the control system to make that adjustment, we automate that procedure. That eliminates the generation of the alarm, and the operator doesn’t have to do anything.”

#### Prioritizing Alarms

According to Ard, NovaTech’s D/3 Distributed Control System (DCS) is designed to meet or exceed the requirements outlined in the ISA-18.2, albeit with slightly different terminology.

In NovaTech’s D/3 System, alarms are limited to loop tags, or External Point Name (EPN) events. EPN alarms set on-screen indicators to flash and sound an audible indicator. A “silence” key is available to silence the audible indication without acknowledging the alarm.

The S18.2 standard also outlines “alarm priority” based on the severity of the alarm. The D/3 System supports two alarm priorities, critical and non-critical. However, NovaTech goes a step further by assigning a priority number from 0 to 99 to further sort alarms in the alarm summary display.

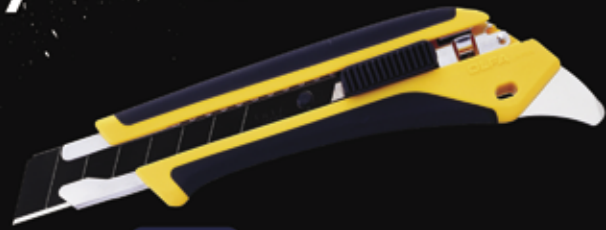
The S18.2 standard also allows for the prioritization of alarms based on classification, which is a grouping of alarms associated with specific equipment, locations, or alarm purpose. The D/3 System assigns

UPGRADE YOUR

# BLADE

## X-Series Fiberglass-Reinforced Snap-Blade Utility Knives

- Jobsite tough
- Anti-slip grip
- Extra sharp black blades



LA-X 18mm  $\frac{3}{4}$ "



XH-1 25mm



MXP-AL 18mm  $\frac{3}{4}$ " **NEW 2019**

Learn why *Nothing Cuts Like an OLFA*

“categories” to each EPN, which meets the intent of alarm classification. The wording of the S18.2 standard suggests that individual alarms can be assigned more than one classification, if appropriate.

### Dynamic Alarming

On the D/3 System, the alarm priority and alarm category (classification) can also be dynamically changed to meet specific process conditions. Dynamic alarming is defined as the automated altering of alarm setpoints, priorities, and suppression based on the current process state.

Without dynamic alarming, for example, an alarm flood can occur during normal equipment shut down. However, most of those alarms are irrelevant to the operator in that situation and obscure more important alarms from the rest of the process.

Ard gives the example of a low-pressure indication alarm in a batch reactor. If there is no current reaction running the reactor, a low-pressure alarm may not mean much. However, if there is activity in the reactor, then a low-pressure alarm is very significant. With dynamic alarm management, the low-pressure alarm can be disabled if nothing is happening in the reactor.

NovaTech approaches dynamic alarming based on the current “state” of the equipment.

When brewing beer, for example, the first steps occur in a mash mixer, where various types of milled grains are soaked in warm water. The empty vessel begins in an “empty and ready” state. As the recipe amount of water, enzymes, and other ingredients are loaded, the state changes to “foundation water.” Once the water reaches a precise temperature, vari-

# SLIP AND FALL PREVENTION!

**Since 1993**

**NEW!**



**TESTING DYNAMIC COEFFICIENT OF FRICTION (DCOF) ASM 925**

## DIGITAL ASM 825A SLIP METER

WET AND DRY TESTING  
CALIBRATES TO ANSI/NFSI B101.1

SAFE FLOORS MAY INCREASE PRODUCTIVITY  
AND WILL CERTAINLY REDUCE LOSSES

SCOF RESULTS WITH AN EASY-TO-USE  
PORTABLE FLOOR FRICTION TESTER

PH: 941-681-2431 | FAX: 941.681.2487

**AMERICAN SLIP METER®**

**WWW.AMERICANSLIPMETER.COM**





# 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

ous milled grains are added and sparged with some additional water, in the "grain and sparge" state.

"As we transition from each 'state' to the next, we can enable and disable alarms, change alarm limits, and even assign new alarm categories and prioritization based on the current process conditions," says Ard.

### Non-Alarm Messages

For all other notifications such as alerts, prompts, and notices that do not meet the definition of an alarm, NovaTech utilizes its proprietary SABL (Sequential and Batch Language) program to post messages to the operator console, HMI, and/or the alarm history file.

There are five types of messages generated by the D/3 System: system messages generated by various tasks that identify the health and status of various

components and their subsystems; operator logger messages to record process changes made by operators, including changes to setpoints, outputs, tuning parameters and alarm acknowledgement.; process alarm messages when an EPN exceeds a predefined alarm limit; SABL programs can print batch and debug information into the Alarm History Files and Batch History Files; SABL programs can query operators at their consoles to request information or confirmation.

"Some people refer to messages sent by a SABL program as an 'alarm,' but they do not meet the definition of the ISA 18.2 standard for alarms, we do not assign priorities to them, and they are not acknowledgeable," says Ard.

### Keeping the Process Under Control

Of course, alarm management is just one aspect of a larger overall process control philosophy that

**LTBLtech, LLC - Call: 615.593.0510**

**DOCK RIGHT**  
LASER DOCKING TECHNOLOGY  
Dock Right Laser System Div. of LTBLtech, LLC  
LOSS PREVENTION FOR THE 21ST CENTURY  
[www.LTBLtech.com](http://www.LTBLtech.com)

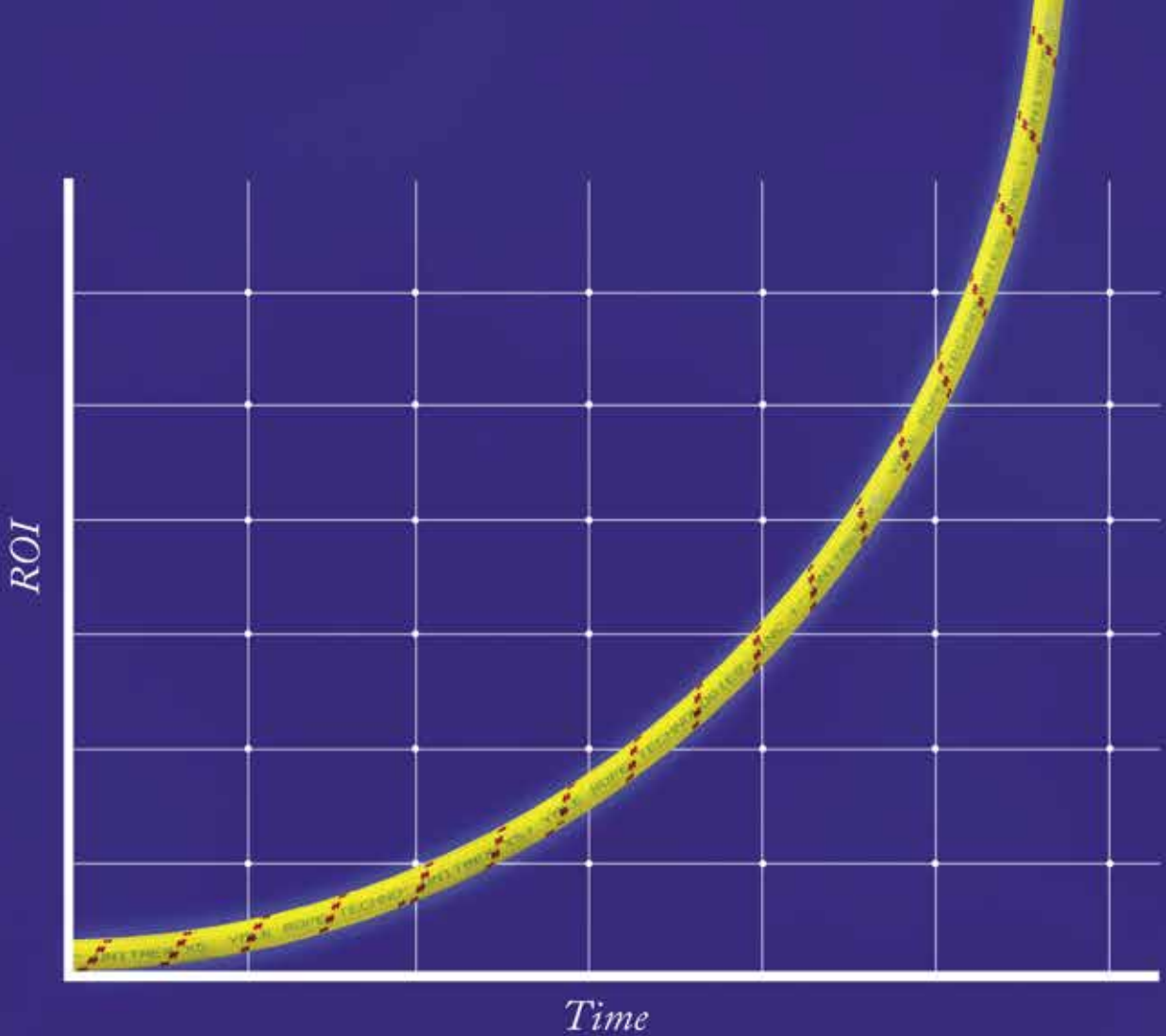
**LTBL TECH "The Original"**  
**LIGHTCOP**  
- Loss Prevention For The 21st Century -

**LASER LINE'S**

**PROJECTED SIGN'S**

**Because Painting & Taping Sucks!**

**Visit us on the web - [www.LTBLtech.com](http://www.LTBLtech.com)**



## Unitrex XS™ Max Wear. Unmatched performance in the field and in the boardroom.

Electric line stringing is easier and more economical with Unitrex™. Made with a core of Honeywell Spectra®, it is up to 10 times lighter than steel, while delivering comparable strength. The urethane-coated polyester jacket provides excellent abrasion resistance for great productivity that lasts.

To learn more, visit [www.yalecordage.com](http://www.yalecordage.com)

**YALE CORDAGE**  
Performance. Passion. Possibilities.

77 Industrial Park Road | Saco, Maine 04072 | p (207) 282-3396, f (207) 282-4620

**WP** MAKE EVERY STEP  
A SAFE ONE

**Help Prevent**

Flex-Tred®

**SLIP AND FALLS**  
Stairmaster®

**WOOSTER PRODUCTS**

For more products & information  
visit us on-line or call:  
[www.wooster-products.com](http://www.wooster-products.com)  
800-321-4936

MADE IN U.S.A.  
PRODUCT

begins with robust, predictable control under all process conditions. Properly conceived and executed, alarm management contributes to operator effectiveness and performance, and is essential to efficient operations.

"If you keep the process under control [with a properly designed DCS], you really don't generate that many alarms," says Ard. "The goal is to focus on actual operator actionable alarms, per the definition outlined in the ISA 18.2 Standard, and leave the rest to the control system to handle on its own."

For more information, visit the NovaTech Automation website, [www.novatechautomation.com](http://www.novatechautomation.com) or call (844) 668-2832.

[www.novatechautomation.com](http://www.novatechautomation.com) •

**"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

**THE PROPPER**  
Door Stopper

[www.PropperStopper.com](http://www.PropperStopper.com)

MADE IN USA

# 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

## Ad Index

Company	Pg.	Website
American Slip Meter	22	www.americanslipmeter.com
Bucaneer Rope	6	www.bucrope.com
Dorlen	28	www.dorlen.com
eMars	13	www.emarsinc.com
Essex Steel Structures	5	www.essexsteel.com
Golight	19	www.golight.com
Greaves	IBC	www.greaves.com
Jesco	16	www.jescoonline.com
Krenz Vent	2	www.krenzvent.com
Levelizer	10	www.dms-site.com
LTBL	1, 17, 24	www.ltbltech.com
Olfa	21	www.olfa.com
Omega	14	www.omegaidl.com
Propper Stopper	26	www.propperstopper.com
Safe T Nose	IFC	www.safetnose.com
Safety Rail Co	3, 15, 23, 27	www.safetyrailcompany.com
Sky Hook	7	www.skyhookmfg.com
Wooster	26	www.wooster-products.com
X-Insurance	11	www.xinsurance.com
Yale Cordage	9, 25	www.yalecordage.com



### **OIL ALERT<sup>®</sup>** 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 it's 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!!**



# Making perfect connections has never been simpler. In fact, now it's a **SNAP!**

**NEW** *SNAP* Connectors from Greaves. A revolutionary compression connector concept that gets the job done with just a few turns of a standard wrench!

- ▶ Time-saving, easy installation
- ▶ Superior pull-out strength and conductivity
- ▶ No bulky and costly tools and dies



## GREAVES

# 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](http://www.JescoOnline.com)

**jESCO**  
— Since 1932 —<sup>®</sup>

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