

Today's

April 2024

# Industrial Products & Solutions™

The Complete Purchasing Guide for Today's Industrial Market

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

In War Against  
Industrial Corrosion,  
Clean Lasers Prove  
Very Effective

Unlikely Technology  
Combo KOs Large  
Suspended Solids



**MADE  
IN USA**



**PRODUCTS, INC.**

*Productivity and value thru ideas*

**FOR SAFER BETTER FASTER JOBS**

*We're Proud to be the Electricians' Friend for Over 50 Years!*

# Qwik Duct Safer Better Faster

**IP3b**

Patent Pending



**PVC Offset**

Sizes 1/2" thru 6"  
Meets Flexible Mandrel  
Test Requirements

**Bore Spacers**

Sizes 1/2" thru 6"  
Roll assembled conduit into  
caissons and under  
obstructions

**IP2**

cULus

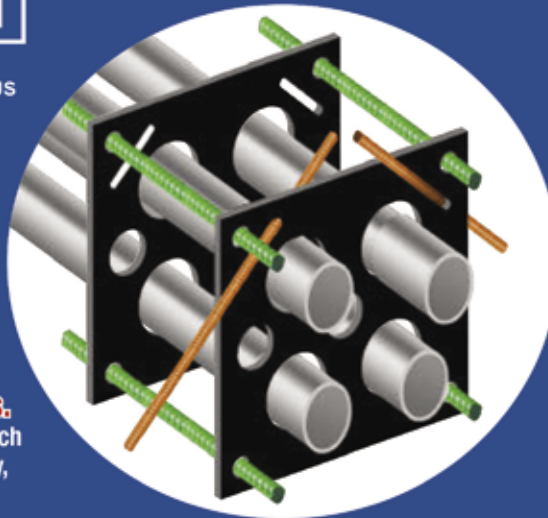


**HDPE CUSTOM TEMPLATES**  
*In Any Configuration Required*

**IP1**

cULus

Patent Pending



**IP13A-F**

## Conduit Transition Couplings

cULus

**PVC Schedule 40 & 80**  
*Transitions in Less Than  
5 Minutes*

PATENT PENDING



**IP15**

**End Bell  
Adapter**

Schedule  
40/80 PVC

cULus

PATENT PENDING

**Save Cost on the Rigid Nipple, Tape & Labor  
Use for Entire Job - Not Just for Repair**

**1 Piece  
Reaming Bit**

1/2" thru 6"  
Schedule 40/80

*Plus More Being Invented for SAFER BETTER FASTER Jobs... Call With Your Ideas!*



**SPPProducts.com 800-233-8595 info@SPPProducts.com**



# 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

|       |                                                                        |
|-------|------------------------------------------------------------------------|
| PG 4  | In War Against Industrial Corrosion, Clean Lasers Prove Very Effective |
| PG 12 | Unlikely Technology Combo KOs Large Suspended Solids                   |
| PG 20 | Ad Index                                                               |



Pg 4

# Today's Industrial Products & Solutions

Vol. 24 Issue 4

**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

The test tools you need - for the information you require.



From monitoring equipment, tools and test instruments to the need for on-going calibration requirements and the training to understand everything - there is no wonder the maintenance professional is overwhelmed. With the availability of new and upcoming technology, information overload can quickly set in when trying to put together the best maintenance solution. **That's where we come in.** EDE can demystify electrical testing programs, offer support, training programs and the high tech equipment to make your maintenance activities straight forward and motors and generators doing what they are supposed to do - run. We will help you **Find the Way.**



• 970/292-8207 • www.edeinst.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

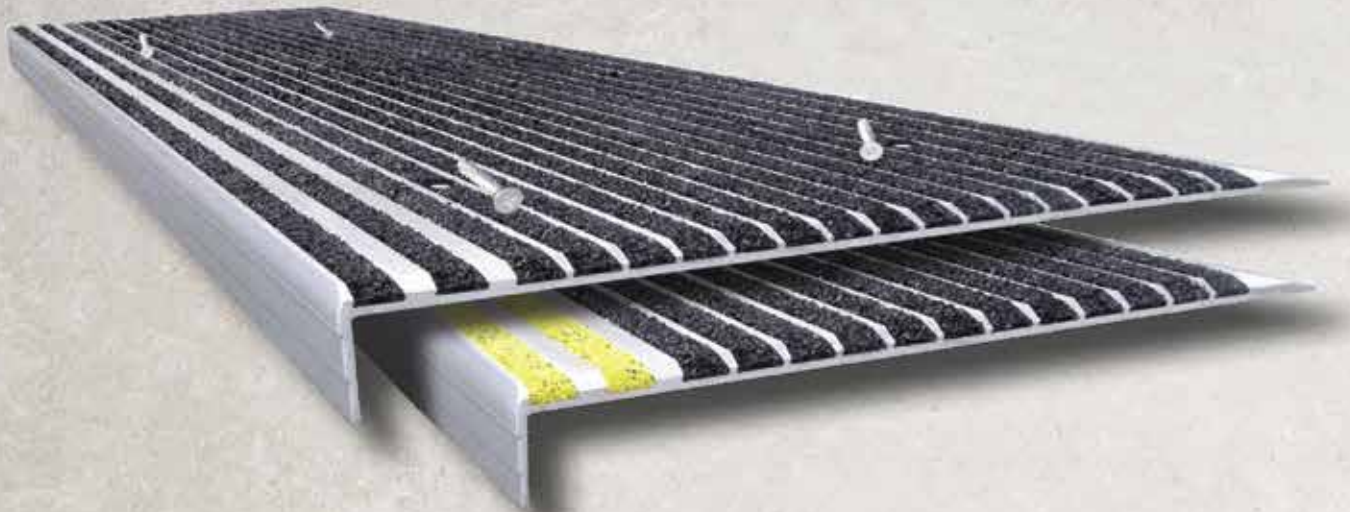


# Worn, Slippery, or Damaged Stairs?

## Renovate with

# STAIRMASTER<sup>®</sup>

## 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<sup>™</sup>**



**PROUDLY MADE  
IN THE USA**

## Specify Wooster

*"Make Every Step a Safe One"*

**1.800.321.4936**

**[www.woosterproducts.com](http://www.woosterproducts.com)**

**[sales@wooster-products.com](mailto:sales@wooster-products.com)**



## In War Against Industrial Corrosion, Clean Lasers Prove Very Effective

*Clean technology lasers offer superior industrial corrosion removal in myriad applications, helps solve some of industry's most costly corrosion problems*

Industries have been fighting a war against corrosion in metal infrastructure, equipment, and products at great expense for generations. "The global cost of corrosion is estimated to be US\$2.5 trillion, which is equivalent to 3.4% of the global Gross Domestic Product (GDP) (2013), according to a NACE International IMPACT study to examine the current role of corrosion management in industry and government and to establish best practices.

Given the massive industrial outlay, proactively controlling corrosion is imperative and can have an equally impressive ROI.

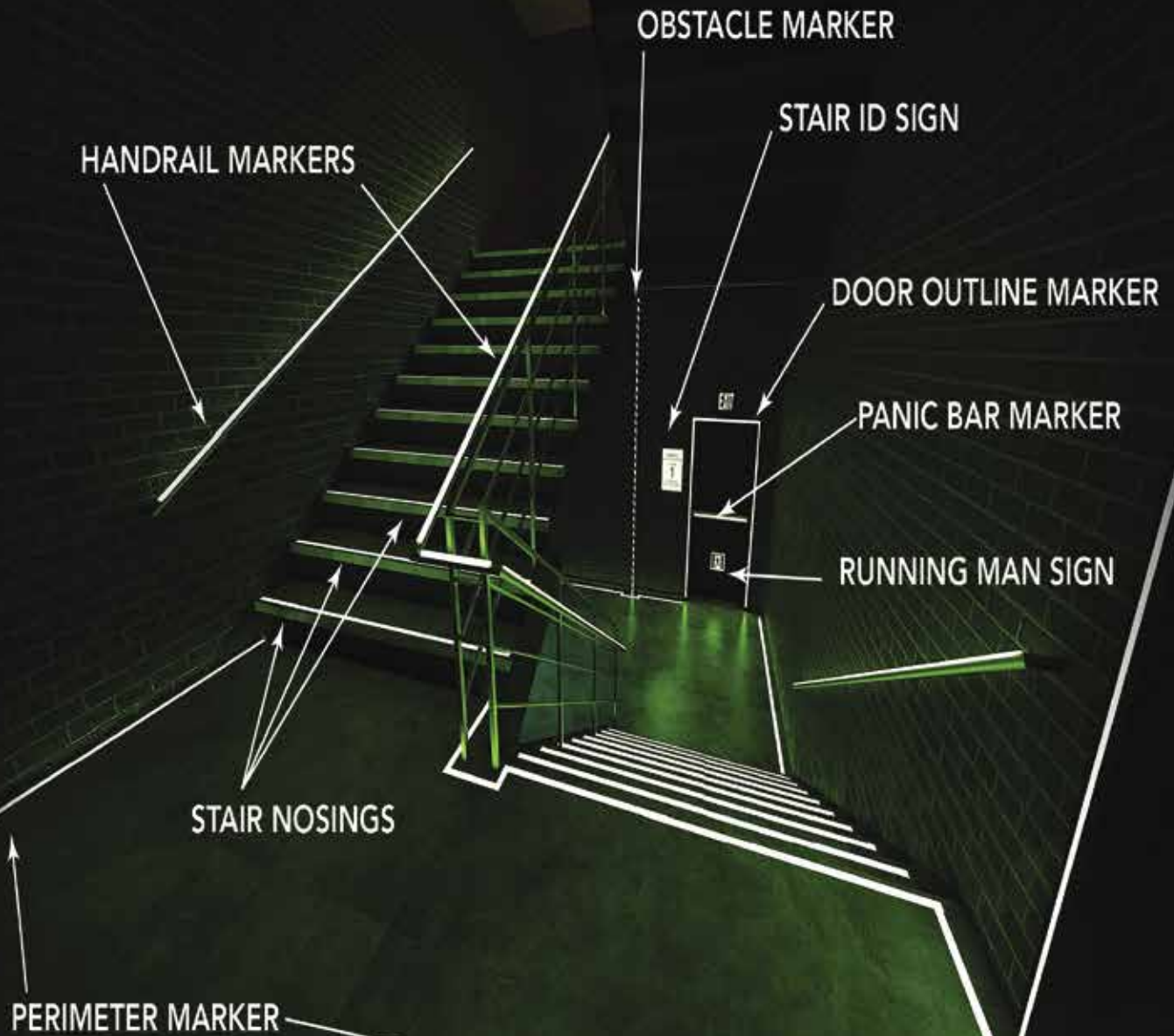
"By using available corrosion control practices, it is estimated that savings of between 15 and 35% of the cost of corrosion could be realized, i.e., between US\$375 and \$875 billion annually on a global basis...The fact that corrosion control provides a cost benefit is a lesson learned over and over again by



# Safe-T-Nose®

LEAVE NO DOUBT • THIS WAY OUT • EXIT SAFELY

SAFETNOSE.COM • 1-855-723-6673



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



equipment, or products exposed to water, fluids, moisture, or atmospheric humidity continually fights corrosion, which causes the deterioration and loss of a material and its critical properties due to chemical, electrochemical reactions of the exposed surface with the surrounding environment. Corrosion affects the microstructure, mechanical properties, and physical appearance of the materials.

The direct cost of corrosion includes a loss of materials, equipment, and production, plus the cost of repair, maintenance, and replacement. Additional losses can result from accidents, injuries, and even loss of life as well as payments to repair environmental damage.

Within the continual struggle against industrial corrosion, one important niche area of corrosion control involves the pretreating of metal surfaces to remove corrosion and contaminants before coating or welding.

Although metal surface pretreatment is a small portion of industrial corrosion control, it is crucial to ensure the safety, performance, and longevity of products and structures.

Insufficient coating pretreatment can lead to inadequate protection from the environment, leading to potential coating failure, moisture entry, and accelerated corrosion as well as increased maintenance, early replacement, and warranty issues. Similarly, insufficient weld pretreatment to remove corrosion and contaminants can lead to weakened or failed welds and necessary rework as well as substantial safety, liability, and litigation risk.

A More Effective Weapon to Eliminate Corrosion

industry, often too late and following catastrophic events," continues the NACE International IMPACT study.

However, traditional methods of removing corrosion can be messy, laborious, time consuming, and can even pose serious health hazards.

Today, one of the easiest to use and most effective alternatives in the war against corrosion is the increasingly important category of industrial-grade, clean technology lasers.

With this approach, precision laser-based systems are used to remove corrosion, contaminants, paint, and residues with a high-energy laser beam that leaves the substrate unaffected. Preparation and cleanup time are minimal, and the low-maintenance equipment can last decades. The technology minimizes operator exposure to potential environmental health hazards. In addition, no consumables are necessary.

Corrosion and the Limits of Conventional Control  
Any industry with metal infrastructure, processing



# "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.ProprierStopper.com](http://www.ProprierStopper.com)

MADE IN USA 



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

In many industries, it is necessary to remove corrosion, residue, oil, grease, or paint before coating a product or infrastructure to improve coating adhesion.

Toward this end, laser-based systems have significant advantages over traditional methods, starting with ease of use.

“With laser-based systems, an operator simply points and clicks a high-energy laser beam at the surface. The substrate is not affected by the laser, and the systems do not create any mess or byproducts. The approach is eco-friendly, energy-efficient, and completes the job in approximately half the time of traditional methods when preparation and cleanup are considered. Also, no consumables are required,” says Wayne Tupuola, CEO, Orlando, Florida-based Laser Photonics,

a leading provider of patented industrial grade CleanTech® lasers for cleaning and surface conditioning. The company’s systems function either as mobile standalone units or can be integrated into production lines.

In the case of Laser Photonics, the laser systems are available in portable and stationary models ranging from 50 to 3,000-watts (a 4,000-watt version is in development) with chamber sizes from 3’ x 3’ in size to 6’ x 12’. The systems can also be installed in manufacturing lines in cabinets or operated by a robotic arm.

In industry, the laser pre-treatment of metal surfaces can be used to streamline various manufacturing processes. For instance, it has been used to remove rust from hundreds of automotive transmissions per day. It has also been utilized

# SLIP AND FALL PREVENTION!

NEW!



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

## Since 1993

## 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



AMERICAN SLIP METER®  
INDUSTRIAL GRADE FRICTION DEVICES  
www.americanslipmeter.com

### ASM 825A Digital Slipmeter

Static Coefficient of Friction Tester

on/off

DryWet

Arrow ← indicates low battery

Test (x)F  
CalibrateDry/Wet



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



to eliminate corrosion from conveying system components.

The CleanTech lasers are also used to refurbish industrial infrastructure, such as when removing a previous coating along with any corrosion to facilitate the new coating's adhesion to the surface.

Another common laser application involves pre-weld treatment to remove corrosion, mill scale, residue, and any impurities on the surface of the base material that would compromise the weld's effectiveness. It is essential to avoid any such contamination on a weld's surface, which could otherwise lead to a weakening of the weld's mechanical properties, requiring rework.

Laser treatment is also used for post-weld cleaning to increase the life expectancy and corrosion resistance of a welded joint. Post-weld cleaning is important for stainless steel as well. Welding can cause a "heat tint," a discolored, thickened top layer on the stainless steel around the weld bead within the heat affected zone that compromises corrosion resistance. Removing the heat tinted top layer is necessary to restore stainless steel's full corrosion resistance and aesthetic value.

A further benefit of the laser systems is that some of the most advanced units are designed to last for decades. For example, CleanTech laser systems can last for 50,000 to 100,000 hours. In addition, virtually no maintenance is needed after purchase and no consumables are required.

Given the devastating cost of corrosion to industry and the inherent limitations

of typical control methods, lasers are becoming a best practice technique to combat it in facilities and in the field. Laser treatment effectively removes corrosion for many industrial applications, minimizes cleanup time and operator exposure to potential environmental health hazards, lasts for decades, and requires no consumables.

*For more information on laser cleaning solutions for surface preparation, contact Laser Photonics at (407) 804-1000 or visit [www.laserphotonics.com](http://www.laserphotonics.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

# Unlikely Technology Combo KOs Large Suspended Solids

*Automated scraper strainers paired with macerators eliminate high volumes of large, suspended solids from slurries for “set it and forget it” approach.*

Various industries including wastewater treatment, power generation, food processing, and chemical manufacturing depend on industrial strainers to separate unwanted suspended solids from liquids and slurries. However, conventional strainer methods can prove to be unreliable and lead to extensive maintenance, particularly in cases where the debris or solids are of substantial size and there is a significant amount of suspended solids present.

Fortunately, the utilization of a novel blend of industrial wastewater technologies now allows for the efficient removal of solids without the need for extensive manual labor, worker exposure to messy or potentially hazardous substances, or constant maintenance. Specifically, the design involves a one-two punch combination of a macerator, which breaks down large solids into smaller fragments, and an automated scraper strainer flexible enough to efficiently filter out larger debris along with tiny particles.

This innovative solution can even accommodate high solids loading without clogging.

The combination of these two established technologies is already being applied to some of the toughest, dirtiest straining applications including wastewater debris, power plant boiler water slag,







# 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)

asphalt transloading, and meat processing waste streams.

### *Overcoming Traditional Limitations*

Duplex strainers are often used in continuous flow processes that cannot be shut down for cleaning purposes. Duplex basket strainers employ two distinct chambers that function independently. When one chamber needs cleaning, the flow is seamlessly diverted to the alternate chamber, enabling the removal and cleaning of the first basket.

Cleaning is a messy, laborious process that involves equalizing pressure between the baskets, diverting flow to the off-line chamber, opening the cover, manually removing the clogged basket, and cleaning it before refitting the basket, ensuring the seal, and tightening the fasteners.

If an operator fails to adequately clean the basket strainers for any reason, both strainers can become clogged at the same time. This compromises the filtration process, resulting in quality issues or unexpected downtime until the problem is resolved. For many processors, this can occur simply due to having insufficient personnel to keep basket strainers clean along with their other duties.

“As an alternative, a combination of established complimentary technologies such as a macerator and an automated scraper strainer can essentially ‘knock out’ even the toughest problems related to large solids and high solids loading in an automated way,” says Robert Presser, Vice President of Acme Engineering Prod., Inc., a North American manufacturer of industrial self-cleaning strainers. The company is an ISO 9001:2015 certified manufacturer of environmental controls and systems with integrated mechanical, electrical, and electronic capabilities.

In this configuration, a macerator would be installed upstream to reduce large solids down to a manageable size. The capabilities of the auto-

mated strainer are crucial to the process as well, according to Presser.

“Although the macerator cuts up the biggest solids, the strainer must still be able to separate both relatively large pieces and tiny particles while handling high solids loading without becoming obstructed,” explains Presser.

In the case of Acme, the OEM’s automated scraper strainer is designed to continually remove both very large and very small suspended solids from liquids and slurries. Cleaning is accomplished by a spring-loaded blade and brush system, managed by a fully automatic control system.

Four scraper brushes rotate at 8 RPM, resulting in a cleaning rate of 32 strokes per minute. The scraper brushes get into wedge-wire slots and dislodge resistant particulates and solids. This approach enables the scraper strainers to resist clogging and fouling when faced with large solids and high solids concentration.

Blowdown typically occurs only at the end of the intermittent scraping cycle when a valve is opened for a few seconds to remove solids from the collector area. Liquid loss is well below 1% of total flow.

If additional pressure is required to clean the screen, Acme Engineering can add an inexpensive trash pump to the blowdown line to assist in removing the solids from the strainer sump.

“Since the solids are small, a little trash pump can pressurize the blowdown line to evacuate solids from the strainer. The combination provides quick ROI because operators no longer have to monitor and clean out heavily loaded basket strainers, resulting in substantially less labor and downtime,” says Presser.

Alternatively, the sump can be replaced by a cylinder bracketed by two gate valves that open and close as needed to remove the solids waste.



"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

“When you are ready to empty the cylinder, you close the top gate valve momentarily and open the bottom one by depressing a button to dump the accumulated solids into a receptacle like a dump truck or a conveyor bucket so there is no manual handling required,” says Presser.

According to Presser, Acme has already worked with plant operators and managers to implement a wide range of specialized straining systems for difficult applications with exceptionally large solids or very high solids loading, including:

#### *Power Plant Boiler Water Slag*

To maintain optimal functionality of power plants using fuels other than natural gas, regular boiler cleaning is vital. Over time, boilers accumulate ash that forms slag deposits, which act as insulation on the boiler tubes. Consequently, more fuel is needed to achieve the desired temperature and output compared to a clean boiler. By removing slag deposits, boiler efficiency can be improved by 1 to 4 percent, leading to reduced emissions from power plants due to decreased fuel consumption.

In a power plant application, Acme Engineering addressed the slag issue by employing large cylinders and gate valves to strain out slag from a waste slurry produced during boiler washouts. The size of the cylinders used exceeded typical dimensions, with the largest cylinder measuring six feet tall and 18 inches wide.

#### *Bunker C Fuel Oil*

In another application, the OEM employed a strainer, cylinder, and gate valve configuration to eliminate solid impurities and debris from Bunker C fuel oil. Bunker C, a low-cost residual byproduct derived from the crude oil refinement process, is a viscous substance with a high asphalt content that includes concentrated trace minerals. In this scenario, Bunker C fuel was supplied to burners for power generation, necessitating the removal of any large clumps or oversized particles that could potentially obstruct the nozzles. Failure

to do so could result in decreased production and unscheduled downtime for maintenance or repairs.

#### *Asphalt Transloading at a Rail Facility*

The OEM has installed equipment to strain asphalt slurries at intermodal terminals providing rail-to-truck and truck-to-rail transloading services. For transloading, asphalt is heated to a liquid form and transferred from tank cars to trucks or from trucks to tank cars. One application involved using multiple cylinders with gate valves to appropriately strain liquid asphalt to the correct specification for rail to truck loading.





# Maddox is the one-stop shop for your transformer needs

Founded by a team of industry veterans focused exclusively on the transformer and transformer-related needs of industrial and commercial clients.



## Sell

Maddox stocks and sells the highest quality transformers from dry types and padmounts to substations.

## Rent

With thousands of units in stock, Maddox rents out transformers for the temporary power needs of customers across North America.

## Repair

With shops on both coasts Maddox inspects, tests, and repairs transformers to ensure that they are in top working condition.

## Purchase

We offer a great price that includes handling all the transportation and environmental issue.

### Meat Processing Wastewater

In a poultry processing application, the OEM designed an automated strainer for a chicken producer to remove unwanted waste solids from a thick slurry. Although a macerator was not used in conjunction with the strainer for this application, it could have significantly improved the efficiency of the process with increased automation and reduced labor.

According to Presser, adapting strainers for the specialized filtration of uncommon liquids and slurries requires not only expertise but also collaboration with the processor as well as some design iterations.

"For unusual applications, it may take a few attempts to get it right. You may have to adjust the timing and frequency of cleaning as well as adjust the screen slot size. There are quite a few variables involved," concludes Presser.

In various industries, processors depend on the filtration of liquids or slurries to meet quality and regulatory standards. When the removal of large solids or managing excessive solids loading exceeds the feasibility of manual basket strainer cleaning, integrating a combination of highly effective technologies may be the best decision.

For more info, visit Acme Engineering Prod. Inc. at [acmeprod.com](http://acmeprod.com) or in the U.S.; phone Robert Presser, Vice President at: 518-236-5659; fax: 518-236-6941; mail Acme at Trimex Building, Route 11, POB 460 PMB 10, Mooers, New York 12958. In Canada phone: 514-342-5656; fax: 514-342-3131; mail them at 5706 Royalmount Ave., Montreal, Quebec, H4P 1K5.

[www.acmeprod.com](http://www.acmeprod.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 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](http://WWW.OIL-ALERT.COM)  
OR CALL: 1-800-533-6392  
FOR MORE INFO!!**





# 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

## Ad Index

| Company             | Pg.     | Website                                                                    |
|---------------------|---------|----------------------------------------------------------------------------|
| American Slip Meter | 8       | <a href="http://www.americanslipmeter.com">www.americanslipmeter.com</a>   |
| Coolshirt           | 15, IBC | <a href="http://www.coolshirt.com">www.coolshirt.com</a>                   |
| Dorlen              | 18      | <a href="http://www.dorlen.com">www.dorlen.com</a>                         |
| EDE                 | 2       | <a href="http://www.edeinst.com">www.edeinst.com</a>                       |
| Essex Steel         | 13      | <a href="http://www.essexsteel.com">www.essexsteel.com</a>                 |
| Federal Knife       | BC      | <a href="http://www.federalknife.com">www.federalknife.com</a>             |
| Jesco               | 1       | <a href="http://www.jescoonline.com">www.jescoonline.com</a>               |
| Lignomat            | 7       | <a href="http://www.lignomat.com">www.lignomat.com</a>                     |
| Maddox              | 17      | <a href="http://www.maddoxtransformers.com">www.maddoxtransformers.com</a> |
| Propper Stopper     | 17      | <a href="http://www.propperstopper.com">www.propperstopper.com</a>         |
| Safe T Nose         | 5       | <a href="http://www.safetnose.com">www.safetnose.com</a>                   |
| Safety Rail Co      | 11, 19  | <a href="http://www.safetyrailcompany.com">www.safetyrailcompany.com</a>   |
| Sky Hook            | 9       | <a href="http://www.skyhook.com">www.skyhook.com</a>                       |
| SP Products         | IFC     | <a href="http://www.spproducts.com">www.spproducts.com</a>                 |
| Wooster Products    | 3       | <a href="http://www.woosterproducts.com">www.woosterproducts.com</a>       |
| Working Concepts    | 20      | <a href="http://www.safeworker.com">www.safeworker.com</a>                 |

**Work shouldn't hurt.**

**SOFT KNEES<sup>®</sup>**  
No-Strap Knee Pads

**STOP a LADDER<sup>®</sup>**  
Another fine **ERGO KNEEL** product  
www.ergokneel.com

**NEW SIZE**

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



"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



# FEDERAL KNIFE, INC.

## Industrial Cutting Knives



1-800-23-KNIFE (800-235-6433) • 812-364-1418 (fax)  
P.O. Box 509 • 785 County Line Road • Palmyra, IN 47164



### REPLACEMENT SHEAR BLADES DELIVERED FROM STOCK

Shear Blades or All Equipment Makes:

- CINCINNATI • WYSONG & MILES • HTC • ACCUR-SHEAR •
- PACIFIC • AMERICAN HERCULES • NIAGARA • PEXTO
- AMADA • STEELWELD/CLEVELAND CRANE
- BETENBENDER • ATLANTIC / HACO
- LODGE & SHIPLEY / COLUMBIA • CENTURY • HERR-VOSS
- STANDARD • EDWARDS/ PEARSON • ADIRA • GATTI • LVD
- DI-ACRO / ELGA-HYDRA • HYDRAPOWER • STAMCO
- BERTSCH • GUIFIL • SAFAN • DARLEY • RHODES
- MORGAN • SUMMIT • DREIS & MANY OTHERS

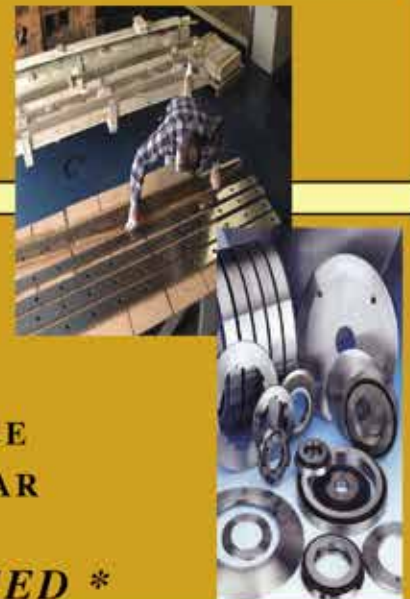
### Precision Blade Sharpening Is Our Specialty!!

*Shear blades made from high quality tool steels "performance matched" to your unique cutting application.*

*Call one of our product specialists for more information.*

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

[sales@federalknife.com](mailto:sales@federalknife.com)



## WE WILL BEAT ANY

COMPETITOR'S QUOTED PRICE  
FOR NEW REPLACEMENT SHEAR  
BLADES

BY 5% OR MORE GUARANTEED \*

\* PRESS BRAKE TOOLING \* METAL SLITTERS \* SLITTING SUPPLIES \* 1-800-23-KNIFE \*