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#### TIPS Contents · October 2022

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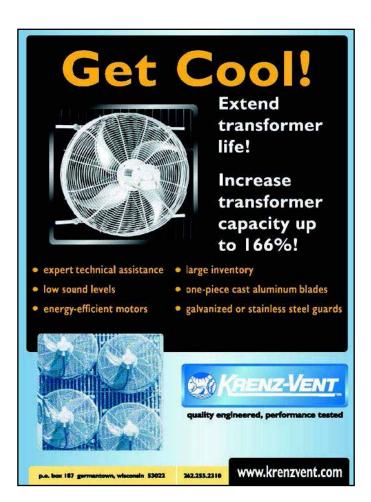
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Vol. 22 Issue 10

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## 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.



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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

VpCl® 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 m³). The pouches can be added as the sole source of corrosion protection inside standard corrugated boxes, plastic bags, or wood or metal contain-

ers. They can also be used as an extra source of VpCl® to complement other VpCl® packaging materials. For example, while VpCl®-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 VpCl® 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 Corr-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/ •

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#### Marsh Instruments Introduces Differential Pressure Gauges

#### New offering backed by name and experience of 1.5 century brand

Marsh Instruments is introducing a new line of differential pressure gauges, devices that measure the difference between two inlet pressures in a system using just one instrument. They can help extend equipment life and prevent malfunction. These are the first differential pressure gauges backed by Marsh Instruments' century-and-a-half reputation as the standard of accuracy.

Diaphragm-type and piston-type differential pressure gauges are in stock and available to ship now through authorized distributors. Other configurations will be rolled out soon, and can also be manufactured to specific customer demand.

"For the first time, customers in need of differential pressure gauges can get them from the trusted Marsh name," said Barrett Wall, vice president, sales and marketing, Marsh Instruments. "They can expect a high-quality gauge that is durable, accurate – and in stock. We look forward to continuing to expand our offering to meet the needs of customers throughout our core markets."

Options include aluminum or 316SS wetted parts, multiple dial sizes of 2.5", 4", 4.5", and 6", static pressures up to 6000 PSI, inline, bottom, or back connections/ports, and direct, front flange, 2" pipe, and surface mounting. Maximum/minimum pointer and integrated pressure switches are also available.

Differential pressure gauges from Marsh Instruments can detect clogs, flow abnormalities, and help determine proper system functioning in diverse applications such as oil and gas, irrigation, HVAC, and filtration, as well as measuring liquid levels in cryogenic tanks. Large dial versions are available for use on backflow prevention and test applications in municipal water systems.

For more information, visit **www.marshbellofram.com** •

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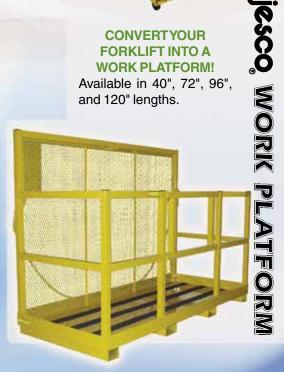
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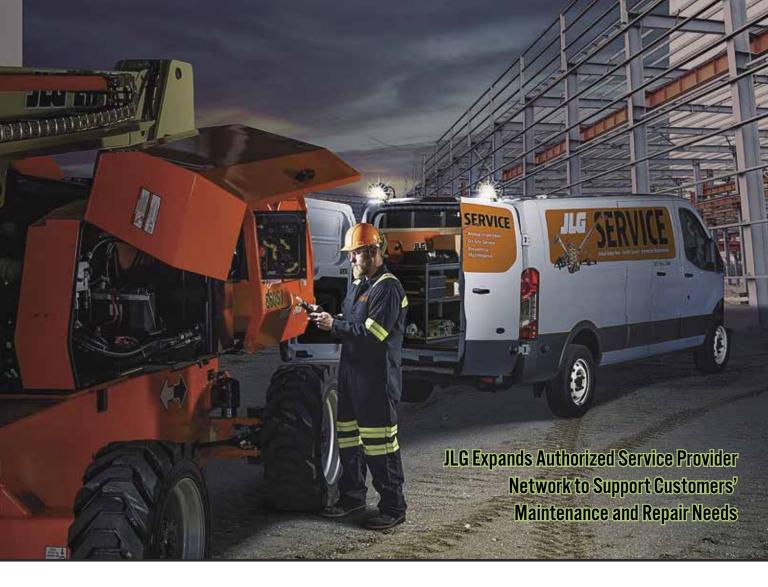
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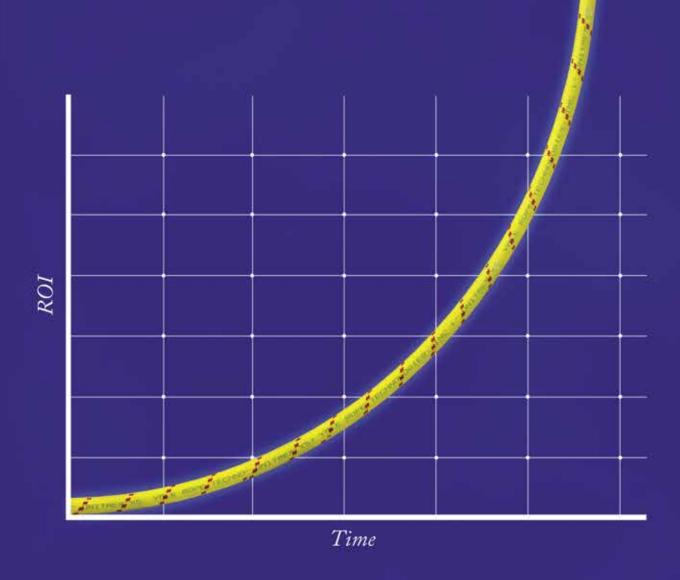
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The company continues to grow its independent service operations across the nation

JLG Industries, Inc., an Oshkosh Corporation company [NYSE:OSK] and leading global manufacturer of mobile elevating work platforms (MEWPs) and telehandlers, is expanding its network of Authorized Service Providers in the United States to provide equipment repair, warranty, maintenance, inspections, parts and other support services nationwide to JLG® customers, no matter where their equipment is working. JLG's independent service operations are available to complete service work on all makes and models of equipment within their defined territories.

"Many of our customers have limited and overtaxed in-house service capabilities, and they are looking to outsource maintenance and repair work to keep their shops efficient," says Dan Fry, JLG's senior program manager for Authorized Service Providers. "When it comes to maintaining the quality and maximum value of JLG machines, there is no substitute for good preventive maintenance and care. With our network of authorized service providers, JLG confidently provides them with responsive, world-class quality service and support, available throughout the life of our products."



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According to Fry, JLG authorized service providers can serve customers in various capacities, including warranty service work, local parts support, inspection services, mobile and in-shop repair services, as well as maintenance and repair work.

#### Warranty Service Work

JLG service providers are authorized to complete warranty work on all JLG equipment. This service includes processing the claim paperwork and handling all the repairs.

#### **Local Parts Support**

With access to the industry's largest resource of JLG genuine and remanufactured equipment parts, as well as a comprehensive inventory of competitive and aftermarket industry parts, available through JLG Online Express, authorized service providers can provide JLG customers with reliable local parts support. Fry says, "By offering our expansive line of industry products, these independent service locations can help JLG customers keep their fleets running in peak condition, reducing the risk for unplanned downtime and costs associated with needing to call in backup machines."

#### Inspection Services

When JLG customers need assistance with scheduling, completing, and documenting various inspection services, such as pre-delivery and annual inspections, JLG Authorized Service Providers can help them meet the requirements of machine ownership.





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Mobile & In-Shop Repair Services

JLG Authorized Service Providers offer JLG customers a dependable, cost-effective resource to keep their JLG equipment fleets operational in the field.

#### Maintenance and Repair Work

With an ongoing need for preventive maintenance and repairs on JLG and competitive equipment products within their operations, JLG Authorized Service Providers offer a consistent, trustworthy option to provide these services as and when needed.

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### **New Norton Cutting and** Grinding Wheels for Aluminum Offer Best in Class Performance

Saint-Gobain Abrasives, one of the world's largest abrasives manufacturers, has introduced its new "Norton for Aluminum" Thin Wheels for the right angle cutting and grinding of aluminum and other non-ferrous soft metals. High quality, extra-friable and self-sharpening aluminum oxide grain and specialized bond technology results in the best cutting and grinding wheel market performance in its class. The new wheels offer aggressive, fast cutting which resists loading and minimizes heat on the workpiece, providing consistent, long-lasting wheel performance.

"As the demand for lighter, stronger materials such as aluminum continues to grow, we are very pleased to offer customers a new, efficient cutting and grinding wheel solution that specifically addresses their application challenges," said Bradley Povelaites, Manager, Product and Commercial Management, Norton | Saint-Gobain Abrasives. "Norton for Aluminum wheels improve throughput and reduce scrap and downtime, saving costs."

Norton for Aluminum wheels have a range of features and benefits including a 5/8"- 11" hub for quick, tool-free wheel changes. Helping to keep metal surfaces clean for defect-free, corrosion-free welding, the new wheels have a contaminate-free bond which does not need any waxes or lubricants. Also, a double coarse layer construction adds versatility and life on applications such as back-grinding and notching. Norton for Aluminum wheels construction is strong and safe, exceeding all the strictest Norton Ameri-



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can ANSI and international safety standards.

Key markets for Norton for Aluminum include aluminum and metal fabrication, welding, shipbuilding, automotive and transportation, aerospace and construction.

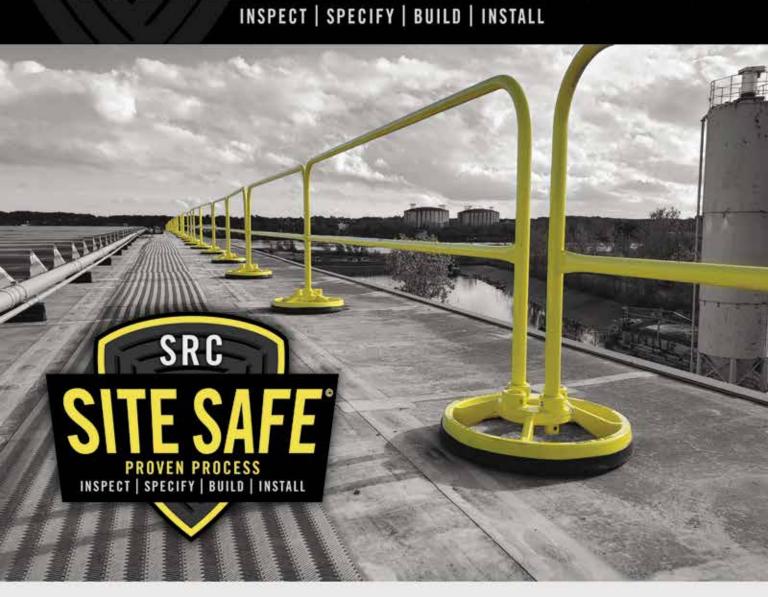
Applications include aluminum, cut-off, portable grinding, beveling, notching, smoothing welds and offhand stock removal. The new wheels are available in 1/4" Grinding Type 27, 1/8" Cutting/ Notching/ Grinding Type 27, .045" Right Angle Cut-Off Types 01/41 and 27/42, and Straight Cut-Off Type 01/41.

For more information, visit: www. nortonabrasives.com/sga-com-mon/files/document2021/fly-er-wheels-thin-aluminum-8975. pdf •



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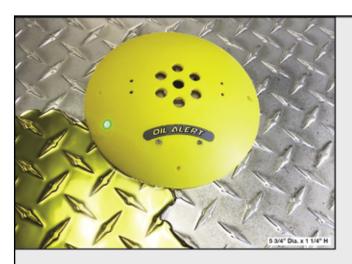
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