

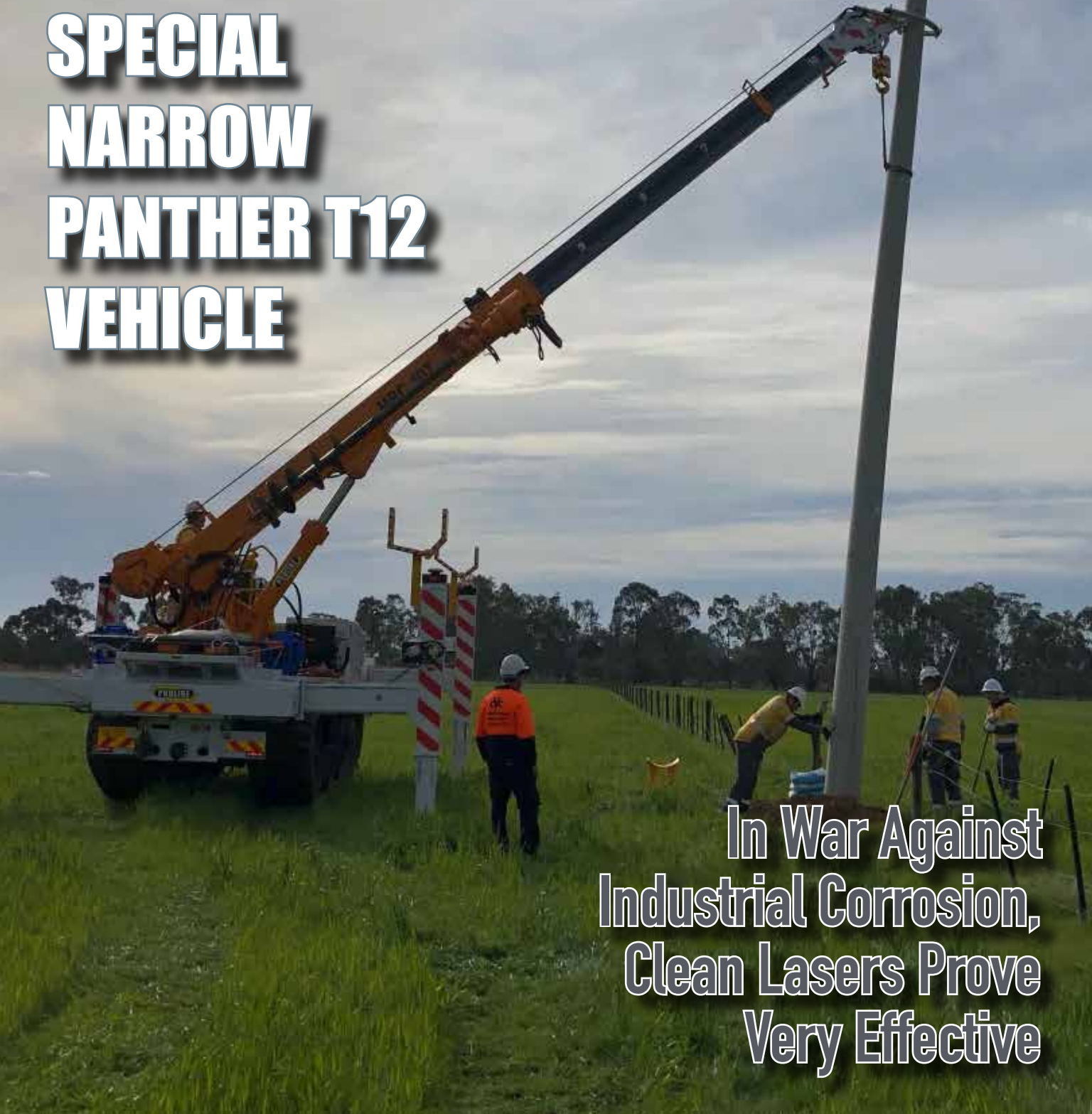
THE

UTILITYSOURCE

March 2024

Products and Services for Today's Electric, Telecom, and CATV Utilities

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THE UTILITYSOURCE

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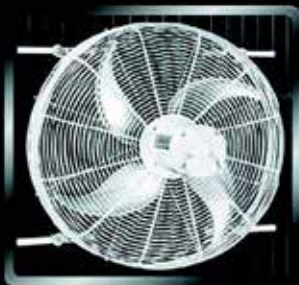
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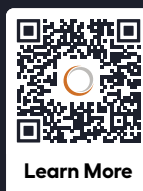
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Clean technology lasers offer superior industrial corrosion removal in myriad applications, helps solve some of industry's most costly corrosion problems

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



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Necessity: the Mother of Invention

HingePost is based in Dahlonega, Georgia and established in early 2023 by Bobby Anderson. The concept was motivated by the desire to accelerate loading times and, also, to contain the payload safely. HingePost uses aluminum, mild steel, and high carbon steel—all 3/16in thick. **The first of its kind**, this new stake post defines a new direction in combining side gates with flatbed platforms.

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*— Mathew Hughes, Uncle Shuck's Corn Maze
Dawsonville, Georgia*

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 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.

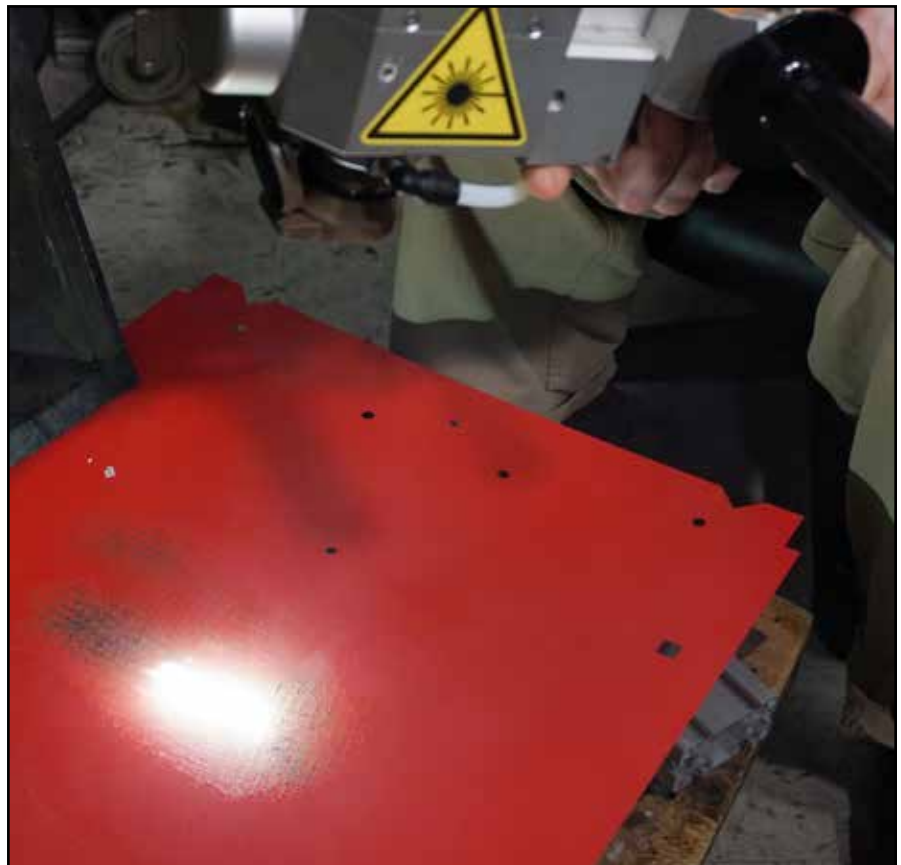
The direct cost of corrosion

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



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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
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 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



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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



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-James "Jim" Bonner
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A case in point is how Prinoth, working in tandem with its Australian dealer GMJ Equipment, created a solution for an electric distribution company that is spreading to other customers in the country. Soft underfoot conditions can be especially problematic for Powercor Australia, serving 1.2 million customers in the southeastern Australian state of Victoria.

The company, charged with installing and maintaining powerlines, poles and/or transformers, often found itself on steep slopes in muddy conditions. The equipment Powercor used – truck-mounted elevated work platforms – wasn't up to the task.

"When you get into rough and wet terrain, they sink and were unstable on hill sides," says David Johnson, operational fleet specialist with the company. When this happened, other issues ensued. Extracting the trucks from the situation could mean the work area needed to be restored after the job was finished. The off-road capabilities of the Prinoth Panther T8 tracked vehicle caught the attention of Powercor. Coupled with GMJ Equipment's LL18.50 mobile elevated work platform, the Panther T8 allowed crews to easily access whatever jobsite conditions were thrown at them, exerting just 4.1 psi ground pressure when fully loaded.

"The Prinoths make little damage," Johnson says. Perhaps more important: productivity has increased. "We can get the equipment where we previously couldn't get it in the wetter months," he says. Powercor started using Panther T8s in 2015 and now has three in its fleet. One problem down. The next one, however, required more than a standard fix. Enter Prinoth's Factory Application Service, dedicated to meeting customer's special requests.

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John Deere Premieres Next Phase of P-Tier Dozers With the 950 P-Tier and 1050 P-Tier Models



- John Deere introduces the 950 P-Tier and 1050 P-Tier large dozer models, which boast advanced visibility and safety features as part of the transition to P-Tier.
- The P-Tier dozers have been upgraded with versatility and efficiency in mind, equipped with strategic enhancements for increased operational productivity and fuel savings.

MOLINE, Ill. (Feb. 19, 2024) — Improving its product portfolio of large dozer offerings, John Deere introduces the 950 P-Tier and 1050 P-Tier dozers as part of its performance tiering strategy. Previously in market as the 950K and 1050K, these robust machines are the next generation of models to join the increasing lineup of John Deere P-Tier dozers. The new 1050 P-Tier dozer boasts an increase in engine power and a redesigned hood and front-end design. In addition, both the 950 P-Tier and 1050 P-Tier offer enhanced visibility and improved safety features, positioning them as an ideal solution for operators aiming to boost productivity and protection on the jobsite.

"John Deere is dedicated to providing its customers with large dozer options that fit the needs of every job site, and the new P-Tier machines offer the durability and reliability our customers demand from machines of this size class," said Matt Costello, product marketing manager, John Deere Construction & Forestry. "The 950 P-Tier and 1050 P-Tier dozer models were updated with the customer in mind, helping them increase efficiency, visibility, and gradeability in even the most demanding conditions."

The strategic design enhancements of the new P-Tier dozer models aim to improve operator safety, visibility on the job, and uptime. Now equipped with standard LEDs, operator efficiency has been significantly improved during night-time or low-light operations. Also helping to improve uptime, the cold weather hydraulic lines are specially tailored for cold climate operations. These hoses, which replace the standard option, are rated for lower temperatures, ensuring smooth hydraulic function in harsh winter and weather conditions. The cab of the 950 P-Tier and 1050 P-Tier can be tilted for easy serviceability access under the cab.

Taking safety to the next level, the Operator Presence System ensures that an operator is present in the seat of the cab, with the seat belt fastened, before the park brake can be released. This ensures a critical layer of safety, preventing accidental movement or operation before the operator is buckled in. The P-Tier system also integrates the park brake switch into the system status monitor, eliminating the need for traditional park lock levers. This integration not only streamlines the operation process but also enhances the overall safety mechanism of the machine.

Enhancing operator comfort and functionality, both models now feature a premium heated and ventilated seat option, which is air-suspended with adjustment controls for optimal ergonomics. The seat design remains at a 15-degree angle to provide optimal comfort when operating the rear ripper. The updated cab features new ergonomic controls, neutral counter rotate, and an integrated forward neutral reverse switch.



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This ergonomic focus ensures operators can work for extended periods with reduced physical strain, helping to enhance productivity on the job site.

Remaining the largest Power-Angle-Tilt (PAT) dozer in the market, the 950 P-Tier dozer features Smart-Grade™, John Deere factory integrated mastless 3D grade control. This machine has the power for heavy cuts and the finesse to finish grade.

Receiving a significant increase in operational advantages upon its entry to the P-Tier portfolio, the newly upgraded 1050 P-Tier dozer boasts a range of features and enhancements that boost overall functionality and efficiency. One notable upgrade is the tag link and blade design that brings the blade 10 inches (25.4 centimeters) closer to the frame. Along with the tag link, inverted tilt and pitch cylinders were added. The inverted tilt and pitch cylinders, lowered hood and larger front window help improve operator visibility to the blade. The repositioning of the 168-inch (427-centimeter) blade, due to the updated tag link design, paired with double-bogie undercarriage provides operators with a more balanced machine and a clearer view of the blade corners, which is a critical factor for precision work.

In terms of power, the 1050 P-Tier dozer features a revamped JD14 (13.6 L) engine which replaces the 13.5 L engine in the 1050K. The JD14 enhances durability, reduces fuel consumption, and uses a single canister in the aftertreatment system to meet emission regulations without the need for a diesel particulate filter. Lastly, on the 1050 P-Tier, the new cooling system has been redesigned with a single plane layout, positioning coolers side-by-side instead of stacked. This new design not only improves cooling efficiency but also simplifies access for cleaning.

To learn more about the latest P-Tier dozers, as well as the full lineup of John Deere machines, contact your local John Deere dealer or visit www.deere.com •

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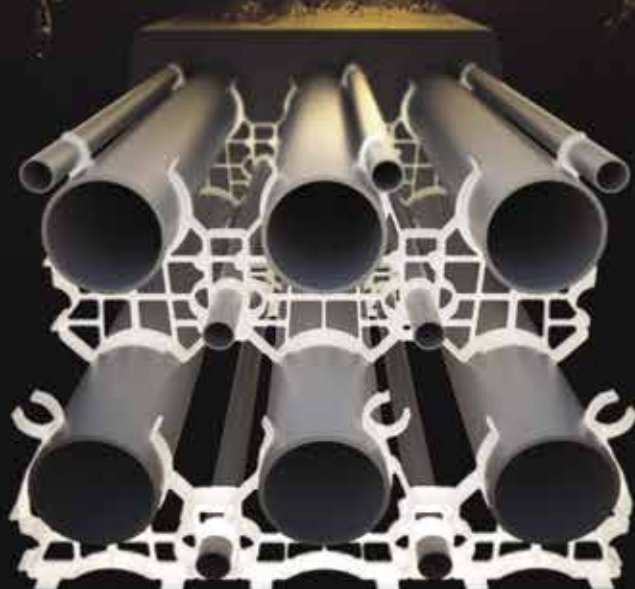
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