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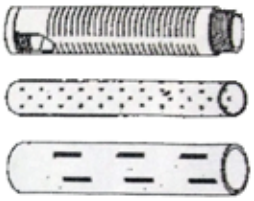

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The PATCUT954HS features protected electronic circuitry, the robust and reliable INFINITY DRIVE® transmission, and a patented high-speed hydraulic pump system, retaining the industry-leading performance, speed, and dependability expected from the PATRIOT line of rugged and reliable tools.

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For more information about the PATCUT954HS Series cutter or any of our products, contact our US-based Customer Service Department in Londonderry, New Hampshire at 1-800-346-4175.

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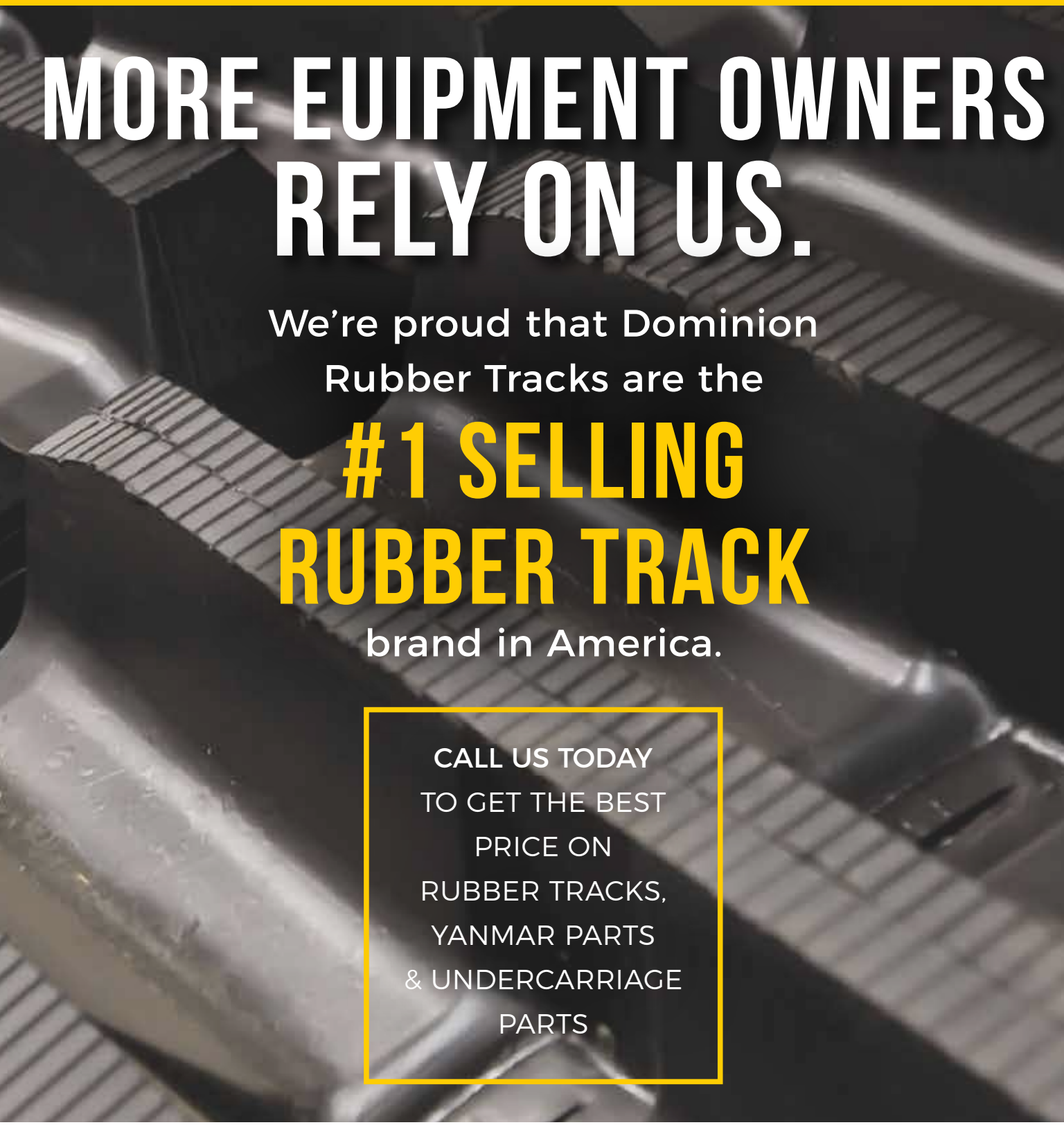

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Beyond marine environments exposed to salt spray or compounds that cause corrosion, common gaseous industrial air pollutants, such as sulfur dioxide, ozone, and nitrogen dioxide, can be corrosion inducing. So can exposure to industrial chemicals such as chlorides, acetic acid, and formaldehyde.

"There is a huge need for an anti-corrosion coating that can go on in areas where conventional coatings tend to fail," says Joey Taylor, President of IPI Inc., an Elkview W. Va.-based paint/coating contractor for commercial and industrial construction. "On certain projects, chlorides need to be removed in order to meet peak performance. But in most cases, this can be cost prohibitive."

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Fortunately, for industrial facilities with assets prone to environmental corrosion, a new category of tough, Chemically Bonded Phosphate Ceramic (CBPC) coatings is helping to stop corrosion, ease application, and reduce production downtime.

Long-Term Environmental Corrosion Protection

When aluminum is recycled, it is melted to separate the pure metal from the impurities. The process creates a waste product called salt cake, which contains compounds that can promote corrosion.

As a result, typical barrier-type anti-corrosion coatings, such as polymer paints, can fail prematurely. This is particularly true when the paint is scratched, chipped, or breached and corrosion promoters enter the gap between the substrate and coating. Then the coating can act like a greenhouse – trapping the corrosion promoters – that allows the corrosion to spread under the coating.

So, when an aluminum recycling plant in West Virginia required corrosion protection for its operation, it sought a long-term term solution that would not require frequent recoating, according to Taylor, who was involved with the project.

"The recycling plant was not having much luck with conventional anti-corrosion coatings, which only lasted about three or four years," says Taylor. "Really, anyone trying to protect their assets from corrosion wants their coating to last much longer than that."

To provide long-term corrosion protection in a tough environment, the aluminum recycling plant and Taylor turned to EonCoat, a spray applied inorganic coating from the Raleigh, North Carolina based company of the same name. EonCoat represents a new category of rugged, Chemically Bonded Phosphate Ceramics (CBPCs) with unique properties.

In contrast to traditional polymer coatings that sit on top of the substrate, the corrosion resistant CBPC coating bonds through a chemical reaction with the sub-

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strate. The coating can even be applied over flash rusted, damp steel. An alloy layer is formed. This makes it impossible for corrosion promoters like oxygen and humidity to get behind the coating the way they do with ordinary paints.

Although traditional polymer coatings mechanically bond to substrates that have been extensively prepared, if gouged, moisture and oxygen will migrate under the coating's film from all sides of the gouge.

By contrast, the same damage to the ceramic-coated substrate will not spread corrosion in industrial infrastructure because the carbon steel's surface is turned into an alloy of stable oxides. Once the steel's surface is stable (the way noble metals like gold and silver are stable) it will no longer react with the environment and cannot corrode.

Visible in scanning electron microscope photography, EonCoat does not leave a gap between the steel and the coating because the bond is chemical rather than mechanical. Since there is no gap, even if moisture was to get through to the steel due to a gouge, there is nowhere for the moisture to travel, which effectively stops corrosion in industrial applications.

The corrosion barrier is also covered by a ceramic layer that resists corrosion, water, impact, abrasion, and chemicals as well as fire and temperatures up to 450 °C.

For such durable corrosion protection, IPI Inc. successfully sprayed EonCoat on two industrial dust collectors (one 60,000 CFM and one 40,000 CFM), including four tanks as large as 40 feet tall and associated ductwork, according to Taylor.

"The CBPC anti-corrosion coating is designed to last significantly longer than traditional coatings, so frequent recoating should not be an issue," says Taylor.

Industrial operation managers or corrosion engineers looking to reduce costs are also finding additional advantages with CBPC coatings like EonCoat beyond corrosion resistance.

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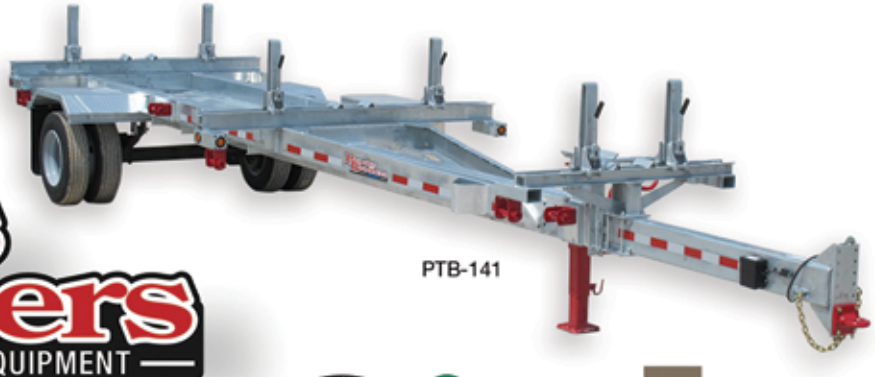

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Such coatings consist of two non-hazardous components that do not interact until applied with a standard industrial plural spray system like those commonly used to apply polyurethane foam or polyurea coatings. Since CBPC coatings are inorganic and non-toxic, there are no VOCs, no HAPs and no odor. This means the water soluble, non-flammable coatings can be applied safely even in confined spaces, or when adjacent parts of a plant continue to operate.

"With the CBPC coating, since there are no VOCs or odor, coating can be done around plant employees or other contractors without restrictions," says Taylor.

One of the greatest benefits, however, is quick return to service that minimizes facility downtime. The time saved on anti-corrosion coating projects comes both from simplified surface preparation and expedited curing time. With a typical industrial coating, near white metal blast cleaning (NACE 2 / SSPC-SP 10) is required to prepare the surface. But with the ceramic coating, only a NACE 3 / SSPC-SP 6 commercial blast cleaning is typically necessary.

With traditional coatings, extensive surface preparation is required and done a little at a time to avoid surface oxidation, commonly known as 'flash rust', which can require re-blasting.

However, with the CBPC coating, flash rust is no issue. There is no need to 'hold the blast'. The reason for this unique CBPC characteristic is due to the presence of iron in the rust, which helps to create the magnesium iron phosphate alloy layer. It is this alloy layer that allows CBPCs to so effectively protect carbon steel from corrosion.

"Conventional coatings require you to prime the substrate every day so you do not lose your blast," says Taylor. "You have to stop sandblasting in the early afternoon, and then prime [the substrate] the rest of the day. This requires time-consuming daily teardown and set up of paint equipment."

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"With EonCoat, however, once you have a clean substrate surface, free of mill scale and coating, it will not hurt it to let it flash rust," adds Taylor. "So, you can continue coating [the next day] without having to re-blast the substrate, re-prime it, or set up and teardown paint equipment each day. You can continue to blast the entire 12-hour shift. That saved us about a 50-hour workweek on the project."

For traditional 'three-part system' coatings utilizing polyurethanes or epoxies, the cure time may also be days or weeks before the next coat can be applied, depending on the product.

In contrast, a corrosion resistant coating for carbon steel, utilizing the ceramic coating in a single coat, requires almost no curing time.

"We were able to complete the project from start to finish in nine weeks, including substrate preparation, spraying, and adding a high-performance topcoat with minimal disruption to the plant's operations," says Taylor.

Industrial facility managers looking for more reliable, long-term corrosion protection in harsh environments will find that CBPC coatings add significantly to safety, production, and the bottom line.

For more information, call 754.222.4919; visit www.eoncoat.com; or write to EonCoat, LLC at 551 Pylon Drive, Unit D, Raleigh, NC 27606.

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Mack Trucks Adds Factory-Backed Warranty to All-New Mack Certified Used Program

Mack Trucks launched an all-new Mack Certified Used Truck program featuring a unique, fully integrated factory-backed warranty managed through Mack systems, which eliminates the need to work through third parties and provides customers extra peace of mind on top of the legendary durability and cost-saving value of a pre-owned Mack® truck.

"Mack Certified Used trucks are inspected, reconditioned and ready to go to work," said Mike Furst, Mack Trucks director, leasing and service contracts. "And with the addition of a factory-backed Mack Certified Warranty, customers can rest easy knowing we've got their backs should an issue arise."

Offering up to 24 months and 250,000 miles of parts and labor coverage on designated components, the Mack Certified Warranty is comparable to the Mack Engine 2 Protection Plan available on new Mack models. The Mack Certified Warranty lets customers simply visit any of Mack's 440 service points across the U.S. and Canada and follow the same warranty claim process as they would with new Mack models. All warranty repairs are performed by an authorized Mack dealer.

All Mack Certified Used trucks are four model years or newer with less than 450,000 miles. Each truck also undergoes a thorough 150-point inspection and reconditioning process and is U.S. Department of Transportation (DOT)-safety compliant.

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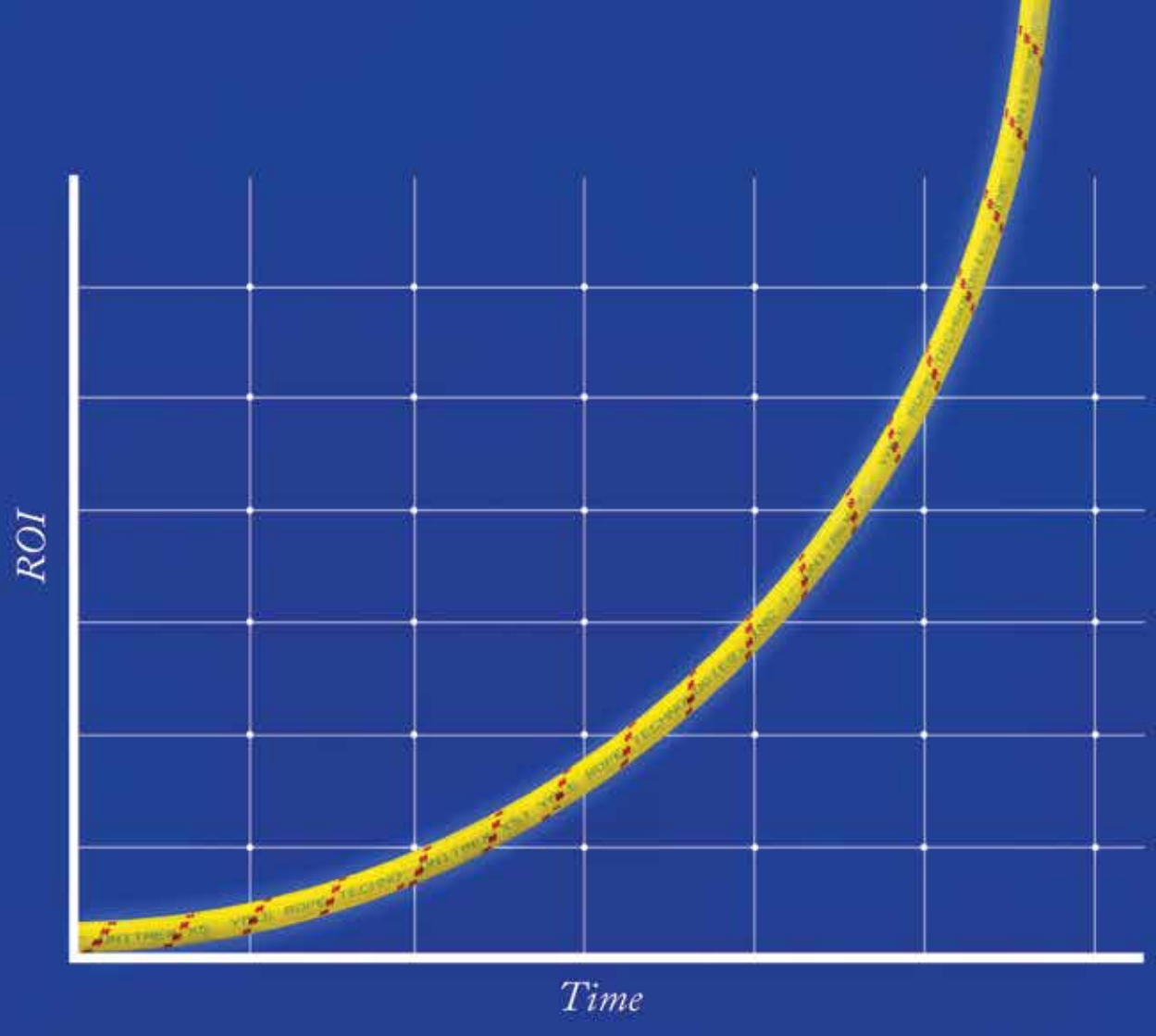

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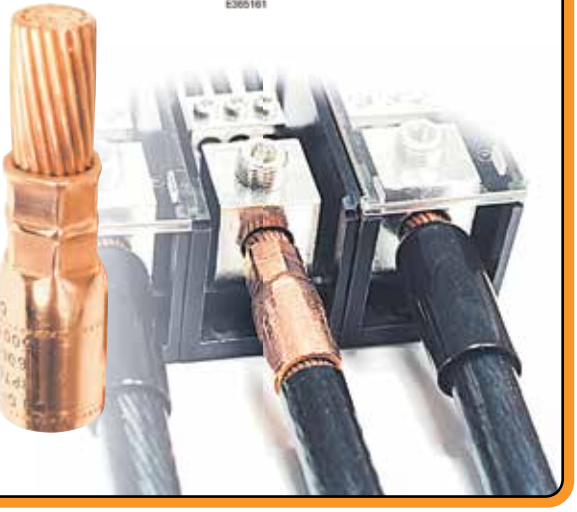

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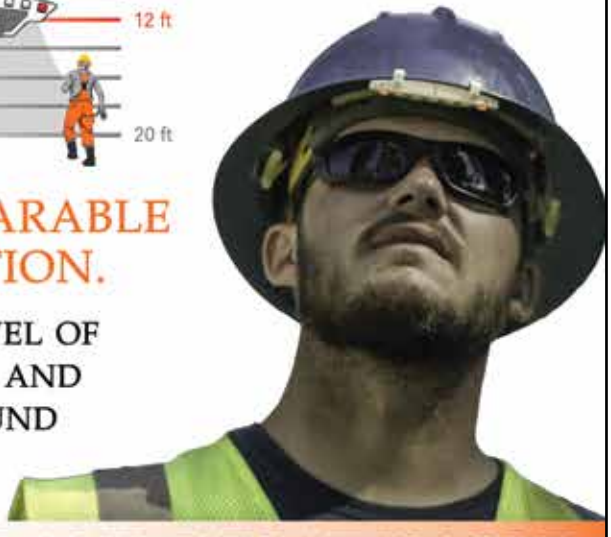

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Klein Tools'® Dual IR/Probe Thermometer Increases Measuring Capabilities

Klein Tools, for professionals since 1857, introduces the Dual IR/Probe Thermometer (Cat. No. IR07). The IR07 is a pocket-sized meter designed to provide air, liquid and surface temperature measurements. Klein Tools continuously introduces new jobsite solutions to the Test and Measurement line, helping tradespeople across all jobsites measure common parameters.

Dual IR/Probe Thermometer (Cat. No. IR07) • Measures temperatures ranging from -40 to 572°F (-40 to 300°C) o Infrared Thermometer (DS ratio 8:1) measures surface temperature o Temperature probe measures air, liquid and surface temperatures • Target laser for IR temperature doubles as a laser pointer • Calculates differential temperature for both IR and probe temperatures • Probe with nub prevents temperature transfer when opening • Backlit display with Hold, Max/Min, APO and Low Battery functions • Stainless steel probe is FDA GRAS compliant • Certified to IEC EN 61326-1:2013; EN61326-2-3:2013 • Includes carrying pouch, instruction manual, and 2 x AAA batteries

"Across all jobsites, there is a need for additional Test and Measure equipment," says Sabrina Kalsi, product manager at Klein Tools. "Klein Tools' newest product provides key measurements for a variety of jobsite applications. The pocket-sized IR07 is an infrared thermometer designed to measure hot spots in electrical wires and panels as well as monitor air quality HVAC measurements."

www.kleintools.com/new-products •

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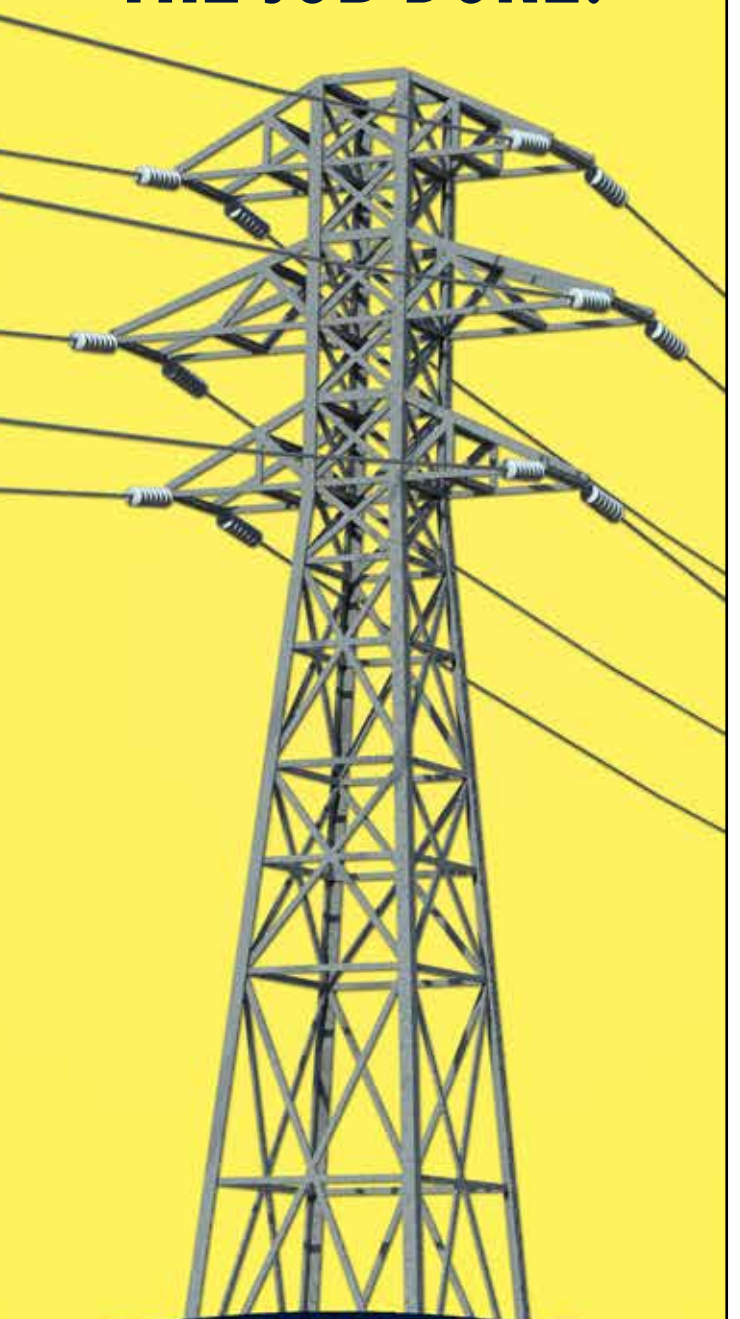

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Jarraff Industries Introduces New Quad Track Model Jarraff All-Terrain Tree Trimmer

Jarraff Industries has unveiled a new version of its Jarraff All-Terrain Tree Trimmer. The new Quad Track Jarraff features a four quad track undercarriage, an industry exclusive feature. The new quad track configuration provides an option that users in the ROW Maintenance industry have not seen before.

The quad track design provides low ground pressure and excellent traction, as well as road-ability and maneuverability in a single machine. In addition to the extreme mobility, the new Jarraff features all of the latest upgrades that existing Jarraff models offer, including a patent pending rotating saw head design that allows the operator to rotate the blade assembly 180 degrees, another industry exclusive. The recently added touch screen information center gives the operator unmatched control, engine monitoring, high definition camera display and more. A Cummins 130 horsepower, Tier 4 engine meets all environmental emission standards and mandates.

The new Quad Track Jarraff joins the 4-wheel drive and LGP steel/rubber track models in providing a dynamic field of operation for tree trimming applications. A rotary manifold offers a 360-degree plus range of motion as a standard feature. The unit also provides lateral tilt and 75-foot cutting height. Two four-way joysticks and fingertip controls offer optimal precision.

In addition, each Jarraff model's cab is completely ROPS, FOPS and OPS certified. The Jarraff adds safety to every job because operators never leave the ground.

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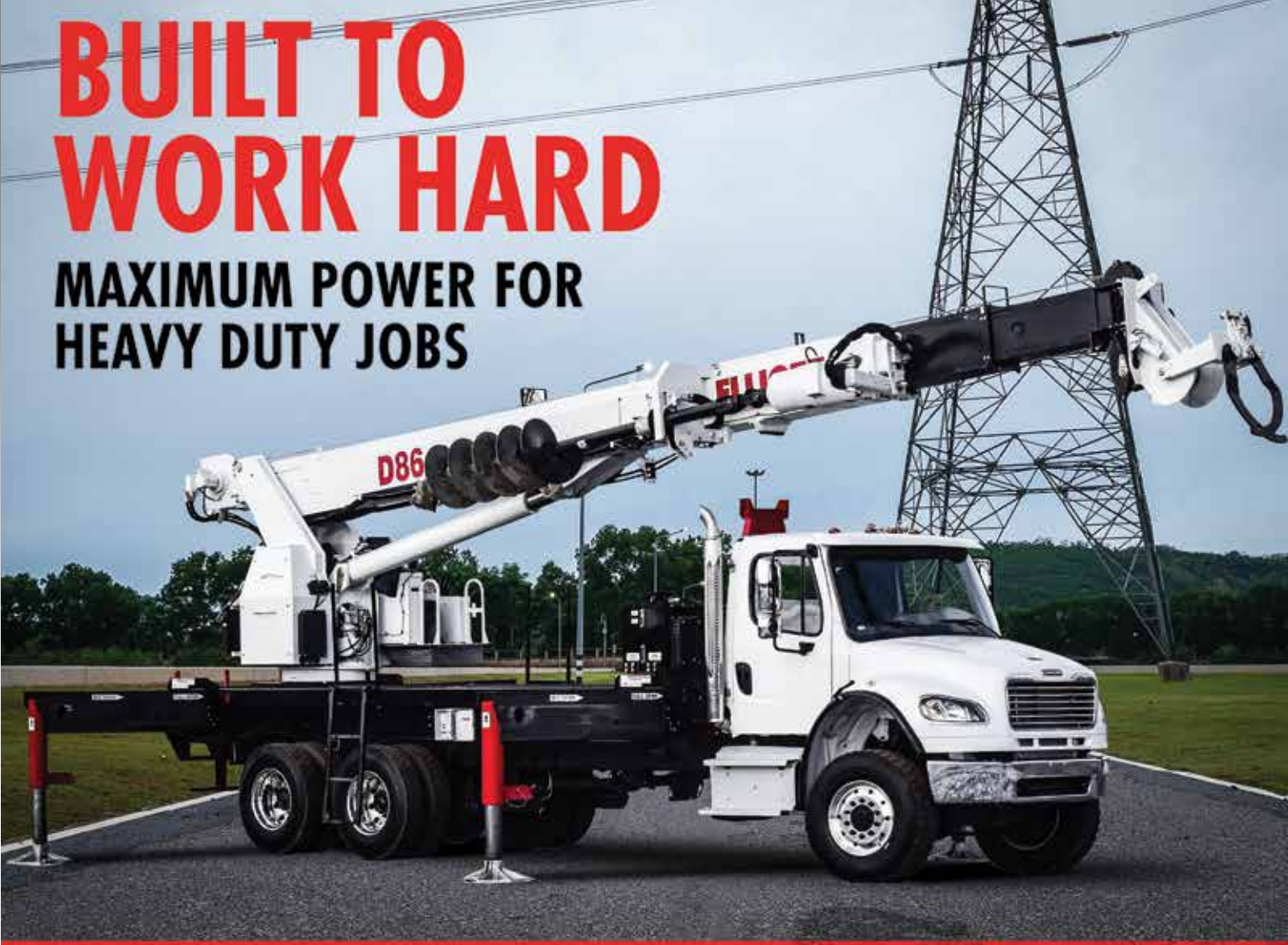

Elliott's D86, D105 and D115 digger derricks offer the widest digging radii, highest torque, smoothest operation and best lifting capacities in the industry. Plus, they're backed by a lifetime structural warranty.

Elliott's Digger Derrick line is specifically engineered for transmission and heavy-duty construction projects. Built to work hard, day after day, year after year, the digger line boasts Elliott's high boom pinpoint geometry allowing for maximum power out of the hole, as well as features offering ergonomic seating and a variable displacement piston pump.

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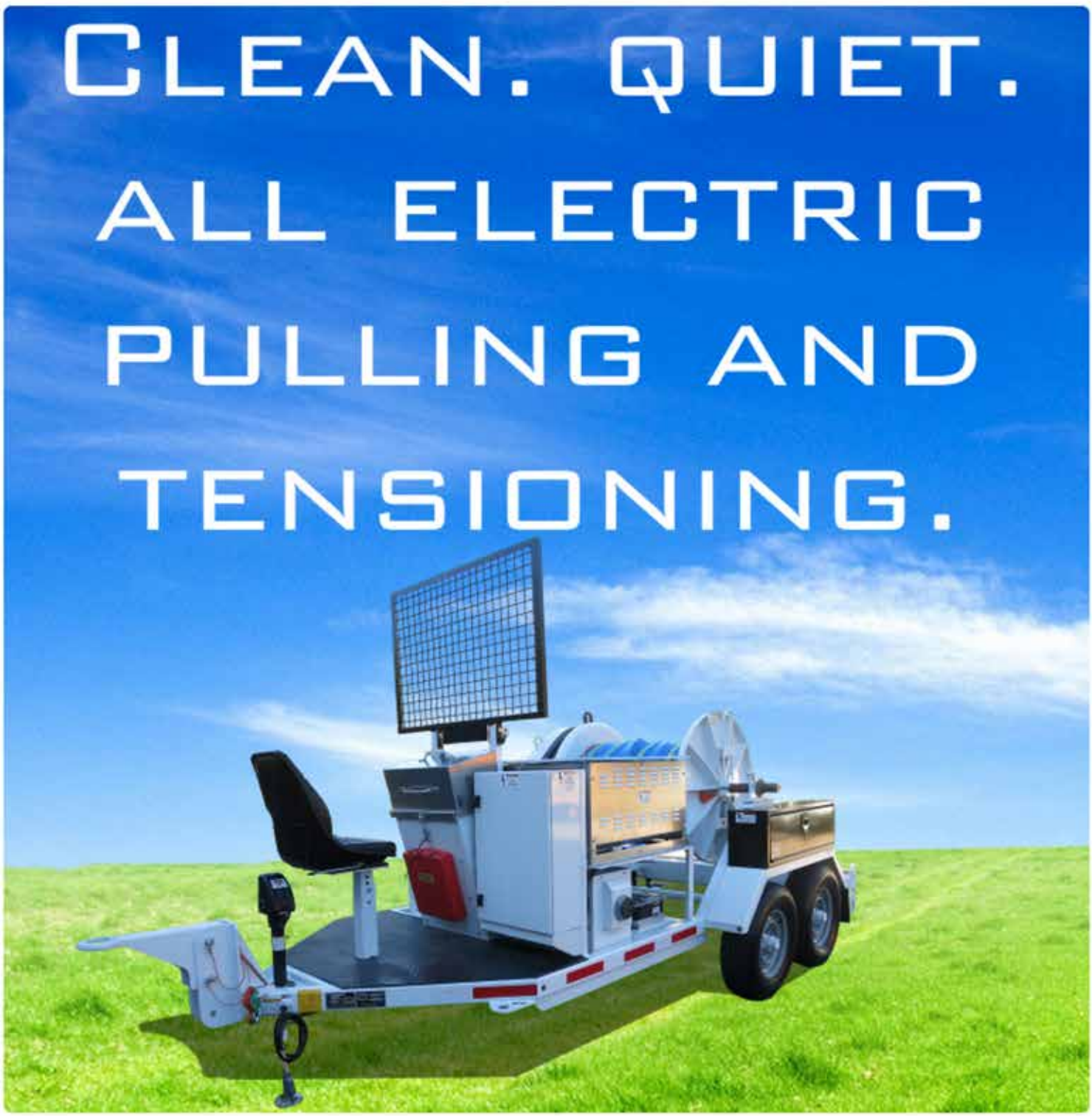

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