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**Disturbance Monitoring Equipment
(DME) Retrofit Solution Complies
with NERC PRC-002-2 Requirements**



**Pettibone Introduces Poclain
CreepDrive™ System to Enhance
Attachment Capability for Speed Swing 445F**

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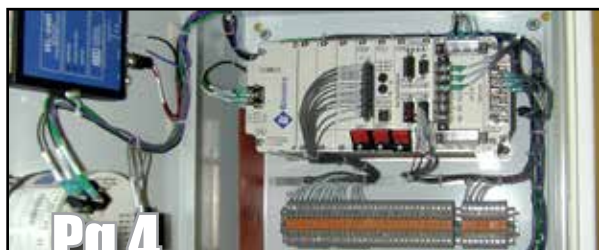
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PG 4	Disturbance Monitoring Equipment (DME) Retrofit Solution Complies with NERC PRC-002-2 Requirements
PG 10	Pettibone Introduces Poclain CreepDrive™ System to Enhance Attachment Capability for Speed Swing 445F
PG 12	John Deere Delivers Power, Performance With Purpose-Built 700L PL40 Pipelayer-Ready Crawler
PG 16	John Deere Unveils Improved Rubber Tracks for Its G-Series Compact Track Loaders
PG 18	Monthly Buyer's Guide
PG 20	Ad Index



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PRESIDENT

Glen Hobson
205-441-5591
glen@handfmedia.net

DIRECTOR OF BUISNESS

Butch Cole
205-624-2180
butch@handfmedia.net

ADMINISTRATIVE DIRECTOR

Steven Hobson
steven@handfmedia.net

EDITOR

Brandon Greenhill
brandon@handfmedia.net

CREATIVE/ WEB DIRECTOR

Jacklyn Greenhill
jacklyn@handfmedia.net

P.O. Box 1568 • Pelham, AL 35124
Phone: 205-441-5591 • Fax: 205-624-2181
www.theutilitysource.net
info@theutilitysource.net



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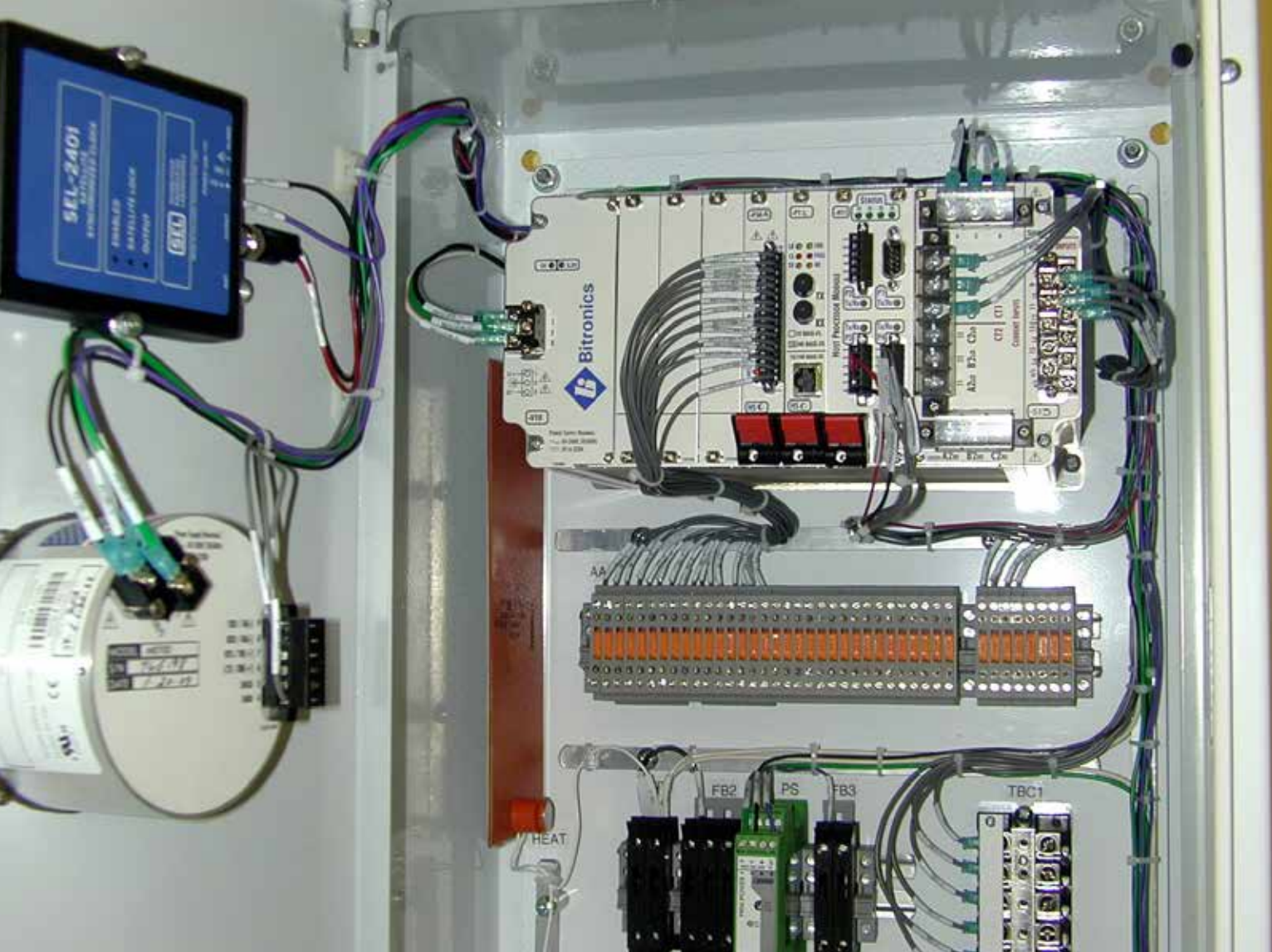
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Disturbance Monitoring Equipment (DME) Retrofit Solution Complies with NERC PRC-002-2 Requirements

Advances in Disturbance Monitoring Equipment (DME) provide utilities with an economical retrofit solution to comply with NERC PRC-002-2 requirements

Utilities are facing an upcoming 2022 deadline from the North American Electric Reliability Corporation (NERC) to fully comply with an updated protection and control standard (PRC-002-2) for disturbance monitoring and reporting requirements for transmission and generation systems. The first milestone is 50% compliance by January 1, 2021, followed by 100% compliance by July 1, 2022.

The objective is to be able to standardize regional reliability requirements and requires utilities to install Disturbance Monitoring Equipment (DME). The data collected by this equipment enables NERC to conduct forensic analyses of power failures to detect the causes in order to improve the safety and reliability of power delivery management.



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The image shows a Bitronics Host Processor Module (HPM). It is a white, rectangular unit with a silver heat sink on top. The front panel features several connectors and labels:

- Left Side:** A small connector labeled "V16". Below it, the Bitronics logo and "Host Processor Module" text are visible.
- Top Left:** A small connector labeled "P10A".
- Top Center:** A connector labeled "PT L".
- Top Right:** A connector labeled "W11".
- Center:** A large connector labeled "Host Processor Module".
- Right Side:** A connector labeled "Status" with green LEDs. Below it, a connector labeled "Current Inputs" with multiple pins. Further right, a connector labeled "Signal Input" and another labeled "Voltage Inputs".
- Bottom:** A row of four red and black connectors labeled "V16".

are also able to perform fault recording, but typically do not have the memory to monitor and store continuous flows of information for 10 days as required by the PRC standard.

“Depending on protective relays to provide DDR data is clunky, expensive and maintenance intensive,” says Gehringer. “Even if a utility could stream all the data from the relays to a central computer in real-time, the bandwidth required is massive and the amount of storage space needed would add to the cost,” he adds.

Utilities, therefore, have a need for simplified, economical solutions that can be retrofitted into existing substations to ensure compliance with PRC-002-2. According to Gehringer, one solution between relay-based recording and DFRs are small, three-phase single-line devices that can utilize existing CTs and PTs that are already routed to protective relays. This is an attractive retrofit option that is more cost effective than installing full-size DFRs.

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pose built for this task and only require the space of a relay. One solution on the market, the 70 Series made by Bitronics, is compliant with NERC standards in SER, FR and DDR recording. Operating at a rate of 30 samples per second, it captures frequency, total watts and VARs and all three phases of volt and phase amps.

One of the specific challenges of the new NERC standard is preserving 10 days of continuous DDR recording data. R8 in the PRC-002 distinguishes continuous DDR recording from triggered DDR recording. Continuous is preferred.

The Bitronics M871 resolves this issue by supporting multiple logical recording functions in each unit. Each logical recorder includes two independent fault recorders, two independent disturbance recorders, a trend recorder, and a SER recorder.

The various logical recorders in the unit can capture data often with a different duration, range and resolution. They can also be triggered by entirely different criteria and can be programmed to operate simultaneously or independently. Because each logical recorder requires a few seconds to convert the data and store it in non-volatile memory, the disturbance recorders are run in alternating hours producing a sequence of COMTRADE (Common format for Transient Data Exchange) files that are each one hour in duration.

By allocating sufficient memory to store 240 one-hour-long COMTRADE files, no data is lost and a circular buffer is created that resides on the M871 with new data overwriting old data after ten days. In other words, the DDR data doesn't need to be streamed in real time across a network to a separate computer. It does not even need to be downloaded, organized, or archived, except when NERC requests

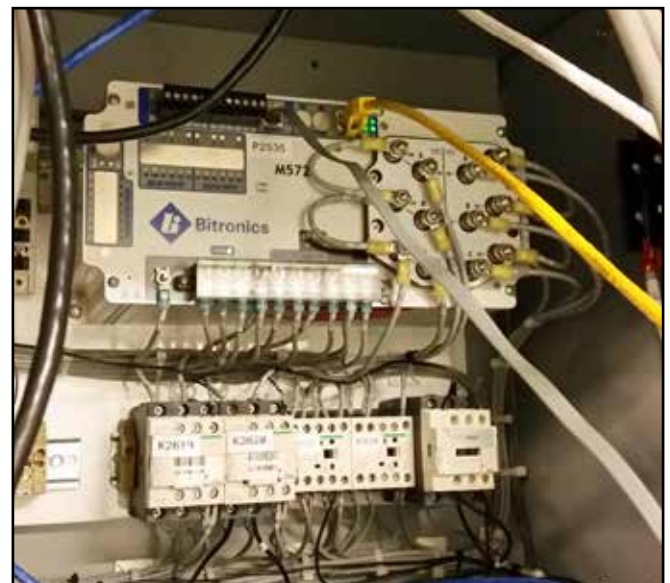
the data. At that point, only the data in the range of time NERC requests needs to be downloaded.

In addition to providing all the recorded data required for PRC-002-2, the IEDs are expandable and can also provide additional real-time data to Supervisory Control and Data Acquisition (SCADA) systems with tremendous accuracy. The IEDs can be configured to perform power quality functions not available in a protective relay, thereby effectively operating as a substation SCADA recorder device. In this way, the unit can provide more information on current and power than a power quality meter, which is usually focused mostly on voltage anomalies.

As utilities assess their options for compliance with the NERC standard, the emergence of the IED-based distributed event recording model sits between protective relays and DFRs on the recording spectrum offering better recording capabilities than relays and lower costs and easier deployment than DFRs.

For more information on the Bitronics 70 Series and the M871, visit the NovaTech website at www.novatechweb.com/bitronics or call 1-844-668-2832.

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Pettibone Introduces Poclain CreepDrive™ System to Enhance Attachment Capability for Speed Swing 445F





Pettibone's do-it-all rail crane, the Speed Swing 445F, is now available with the CreepDrive™ system from Poclain Hydraulics. This optional feature allows the Speed Swing to run high-flow hydraulic attachments while driving the machine at a slower independent travel speed on or off the rails.

The Poclain CreepDrive is a hydrostatic driveline motor that can be clutched. When the operator wishes to engage the CreepDrive, the Speed Swing's mechanical transmission is placed into neutral. A display interface is then used to raise and lower the engine RPMs, providing the necessary hydraulic flow – up to 33 gallons per minute – to run high-flow attachments. At the same time, the operator can control the CreepDrive with an integrated rocker pedal, which precisely travels the machine forward or backward at slower speeds of up to 2 miles per hour.

High-flow attachments compatible with a CreepDrive-enabled Speed Swing include snow blowers, power brooms and several others. The Speed Swing 445F is also available with dozens of attachments that do not require CreepDrive, including an adjustable V-type snowplow, tote boom, track-cleaning bucket, load bucket, hydraulic tool circuit, magnet package, 20-foot extendable boom, fork frame, and many more. Most attachments can connect to the machine with a standard pin-on connection or ACS quick coupler.

The Speed Swing 445F provides 180-degree boom rotation. Its spacious, climate-controlled operator cab includes a digital IQAN display module, full instrumentation panel and precise, pilot-operated controls. Tinted safety glass and a rearview camera help ensure safe operation at all times.

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John Deere Delivers Power, Performance With Purpose-Built 700L PL40 Pipelayer-Ready Crawler



- The John Deere-designed and -manufactured 700L PL40 Crawler provides a powerful and rugged purpose-built solution for pipelaying applications.
- From the more powerful John Deere PowerTech™ engine to the enhanced lift capacity, the 700L PL40 delivers increased productivity and performance.
- Other key features include easy sideboom installation, a comfort-boosting cab and the seamless integrated pipelayer controls.

Purpose-built with customer needs top of mind, the John Deere 700L PL40 Crawler provides a powerful solution for pipelaying applications. Offering a lift capacity of 40,000 pounds, the John Deere-designed and -manufactured 700L PL40 model provides customers with operating ease and exceptional durability. “Our customers face a multitude of challenges, from tight deadlines and budgets to adverse conditions, making it critical to have a dependable solution that can withstand the demands of the application,” said Matt Goedert, solutions marketing manager, John Deere. “With the 700L PL40, we are delivering a purpose-built solution that instills confidence in the operator while also tackling challenges headfirst. There is no need for fabrication work, as the 700L PL40 comes ready to bolt on the customer’s choice of sideboom. From increased visibility to enhanced controllability, the 700L PL40 delivers the performance our customers need on tough jobs.”

Equipped with a 135-horsepower John Deere PowerTech™ PVS 6068 engine, the 700L PL40 model boasts more hydraulic power compared to the base machine. This improves overall engine performance and increases peak torque in the pipelayer-ready model. The closed-center, load-sensing hydraulic system includes a variable-displacement pump, and the amplified flow rates boost hydraulic performance. In addition, various controls, including Eco Mode, Auto Idle and Auto Shutdown, can be enabled through the sealed switch module to maintain productivity while reducing costs. The Eco Mode feature optimizes fuel economy by seamlessly adjusting the engine speed to meet the load. The Auto Idle and Auto Shutdown timers lower fuel costs and save warranty hours during inactivity or low use.

The purpose-built cab significantly reduces noise, increases visibility and enhances operator comfort in pipelaying applications. Customers can select a canopy cab option for additional visibility and improved commu-



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nication on the job. Other notable features include an operator-focused design for easy entry and exit from the cab, a straight and center seat with excellent all-around visibility, and a standard rearview camera. The seamless integration of pipelayer controls with the John Deere joystick controls further enhances productivity on the job site. The electrohydraulic side-boom control joystick combined with a proportional roller gives the operator precise control while using one hand to maneuver. The dual-path hydrostatic transmissions and the neutral counter-rotate setting deliver precise, predictable control along the trench without triggering abrupt movements. The built-in front console storage was conveniently designed so operators can cleanly install load-monitoring displays for easy viewing. The decel pedal offers multiple operator selectable modes, helping the operator customize his/her experience and increase ease of use.

Built at the John Deere factory in Dubuque, Iowa, the pipelayer-ready machine is designed to maximize uptime. The bolt-on design of the platform and mounting plates simplifies the installation of the customer's preferred sideboom, reducing machine downtime. Other features, including standard reversing fans with large fin spacings and improved idler shims, pre-load springs and easier track cleanout, further boast uptime. Additionally, improvements to the hose and harness routings over the previous models reduce wear and leak points. Extended service intervals and grouped maintenance points reduce time and costs. The fast fuel and quick fluid service options also reduce time, getting the machine back on the job sooner.

The 700L PL40 rounds out John Deere's lineup of pipelayer machines, which also includes the 850L PL100, 1050K PL170 and 1050K PL220. Machines in the PL lineup come with JDLink™ telematics for five years in-base. Uptime is further enhanced through John Deere Connected Support™, a suite of factory and dealer tools, including the Service ADVISOR™ Remote, which improve machine service and support. For more information about the 700L PL40 pipelayer-ready configuration, as well as the full range of John Deere construction equipment and technology solutions, visit www.JohnDeere.com. •



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John Deere Unveils Improved Rubber Tracks for Its G-Series Compact Track Loaders

- John Deere updates its compact track loader rubber tracks solution, delivering increased performance and durability.
- Updates include a new arched roller path, enhanced steel cords and manufacturing improvements to the metal core adhesion process.
- A new rubber tracks warranty, both on new machines and service parts, further boosts customer confidence in the John Deere compact construction equipment solutions.

John Deere unveils improved rubber tracks for its lineup of compact track loaders, providing a more durable solution for customers. The new rubber tracks feature improvements to the construction and design, boosting performance and durability even when navigating challenging terrain and conditions.

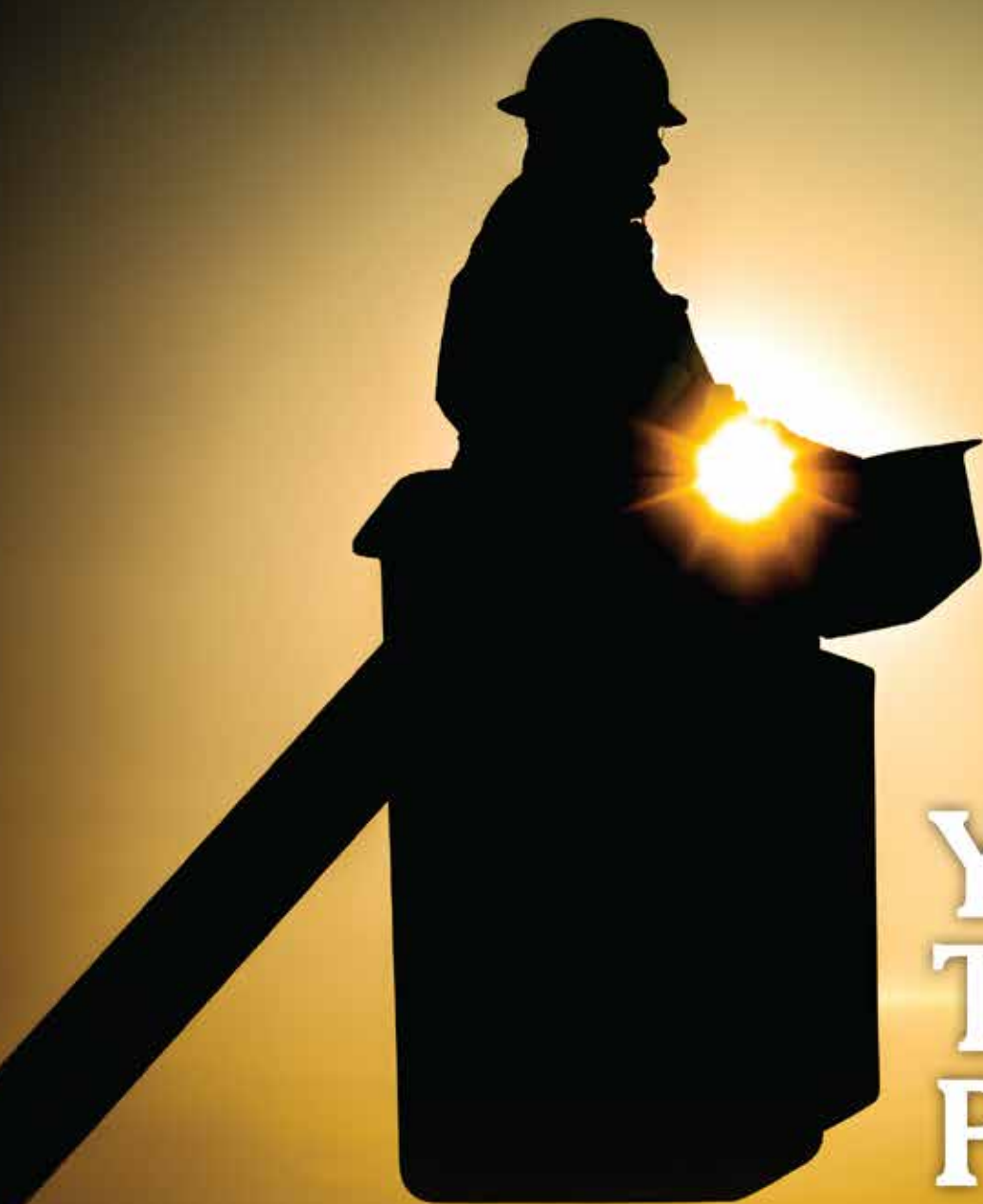
“Machine uptime and durability are critical for owners and operators, and we are committed to providing our customers with proven solutions that are designed with their needs in mind,” said Austin Verbeck, after-market marketing manager, John Deere. “When updating the rubber tracks for the G-Series compact track loaders, we focused on key areas. From updated manufacturing processes to the reinforced steel cord, the result is a durable solution that is built to power through any job site.”

The new arched roller path helps to shed debris and improve roller path life. Additionally, updated steel cords reduce bending stress, while enhancements to the metal core adhesive process further improve durability. Designed with customer needs in mind, these updates ensure quality, performance and machine uptime.

In addition to the design updates, the rubber tracks warranty on new machines and service parts has been significantly improved. Starting December 2020, the new warranty, available for John Deere compact track loaders and compact excavators, will be applicable for 18 months or 1,500 hours, whichever comes first, and will be based on material defects and workmanship. With the improved parts warranty, John Deere reaffirms its commitment to providing durable and reliable equipment solutions for its customers.

To learn more about the updated compact track loader rubber tracks, as well as the full line of John Deere compact equipment, visit www.deere.com or your local John Deere dealer.

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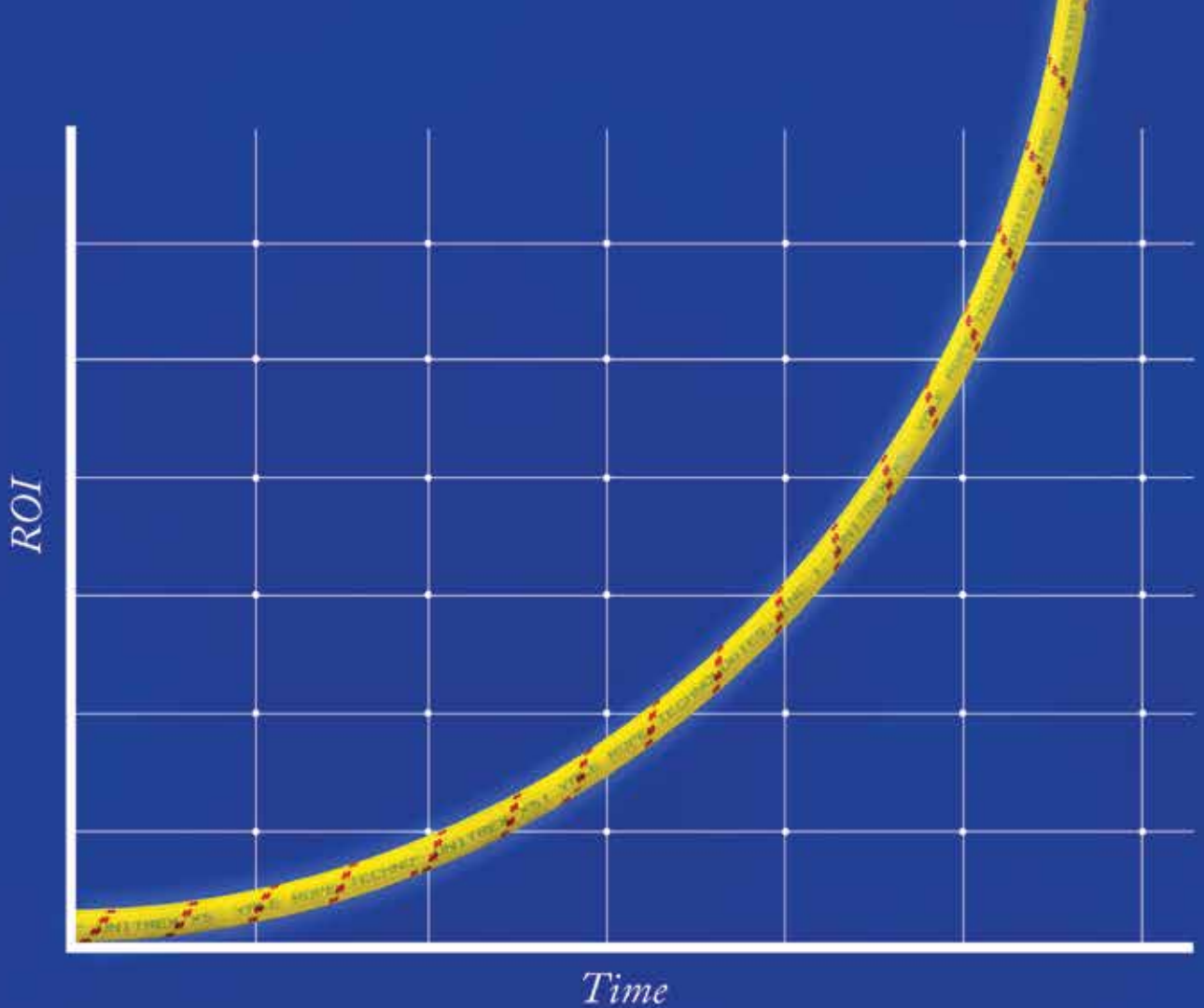
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