

February 2020

# NEW CONSTRUCTION

Products

**Creating a Safer,  
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for Construction  
Workers**



**John Deere Celebrates 50th  
Anniversary of Skid Steers  
With Restored Model at  
CONEXPO-CON/AGG 2020**

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### PUBLISHER

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

### ADMINISTRATIVE DIRECTOR

Steven Hobson  
steven@tipsmag.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.newconstructionproducts.com  
info@newconstructionproducts.com

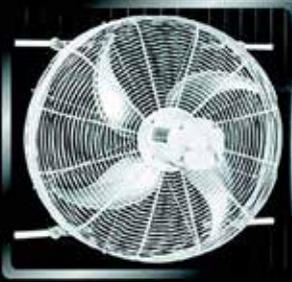


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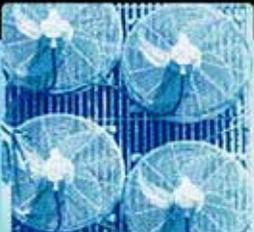
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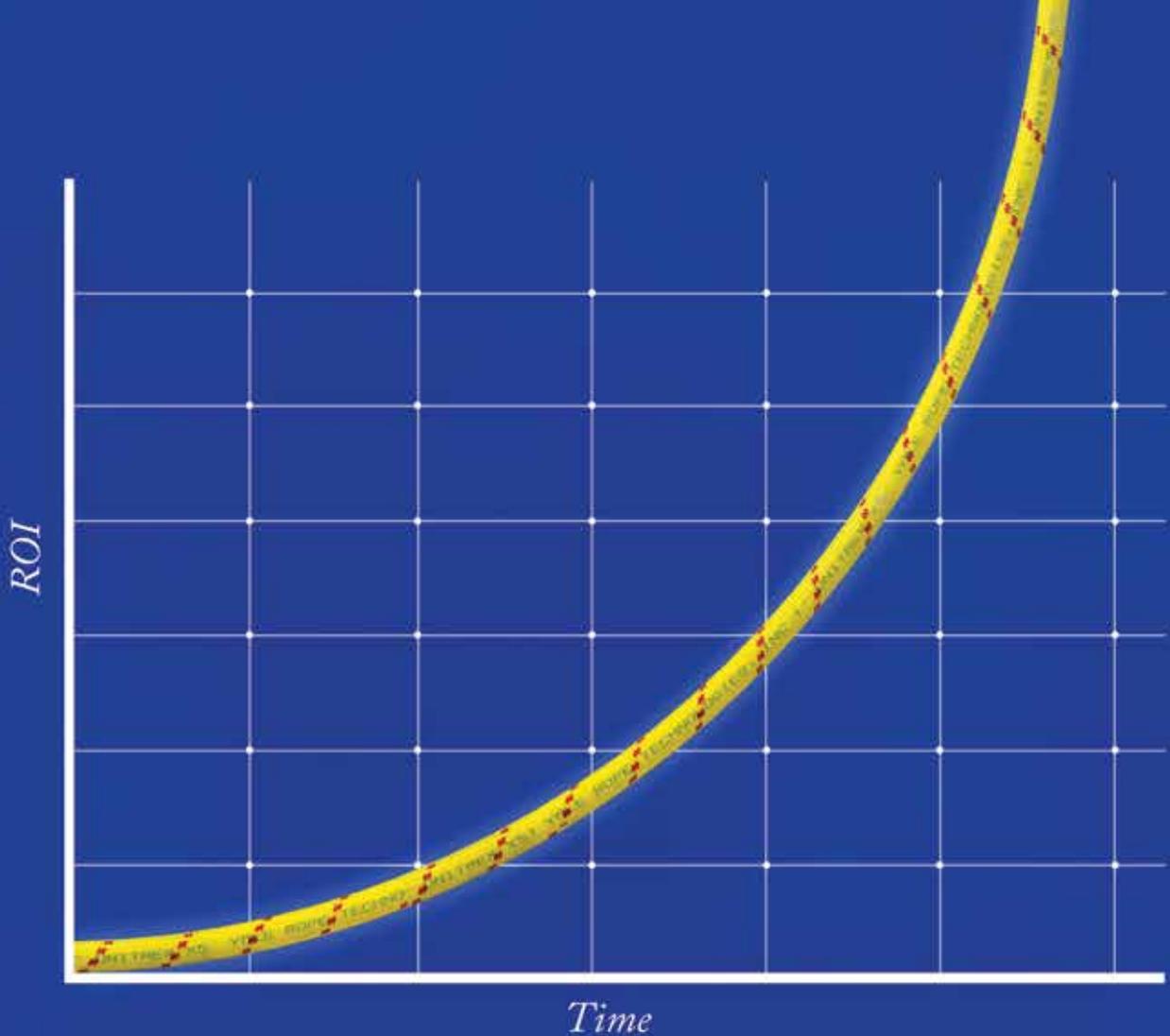


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# John Deere Brings Segment Expertise to CONEXPO-CON/AGG 2020



Continuing its commitment to providing customers with productive machines and technology that supports their unique application requirements, John Deere will lay out its CONEXPO-CON/AGG 2020 booth in segment groupings. Attendees will be able to see the benefits of combining multiple John Deere machines, related technologies and solutions, and dealer support offerings across four specific production systems: Quarry & Aggregates; Roadbuilding; Site Development; and Underground.

“John Deere’s expertise in these segments stems from many years of working with customers to understand their core needs,” said Jason Daly, director of global marketing & support, John Deere Construction & Forestry. “This layout will help customers at the show better visualize how our products, technology solutions and dealer support can all work together to make them more productive.”

Thirty-seven pieces of equipment will be displayed in the booth within the four applications segments. Highlights include:

- Quarry & Aggregates products on display will include various wheel loaders and excavators, including the 944K Wheel Loader and 300G LC Excavator. Additionally, through the Wirtgen Group acquisition, the booth

area will also feature a Kleemann MC011 PRO Cone Crusher.

- Roadbuilding products will include the 950K PAT SmartGrade™ Dozer, 135G Excavator, and motor graders, such as the 872GP with SmartGrade fully integrated, mastless grade control.
- Site Development will feature multiple crawler dozers, including the 850L, several wheel loaders, excavators and a scraper system.
- The Underground segment will boast utility wheel loaders, backhoes, numerous excavators and multiple compact pieces of equipment with attachments.

Several new product introductions to be announced at the show are a result of combining years of customer collaboration with segment and application expertise. Multiple segment experts will also be on hand throughout the week to answer questions and discuss equipment and technologies.

The John Deere Construction & Forestry booth is located at N12525 near the main lobby entrance of the North Hall. For more information about John Deere at CONEXPO-CON/AGG 2020, please visit [www.JohnDeere.com/vegas2020](http://www.JohnDeere.com/vegas2020) •

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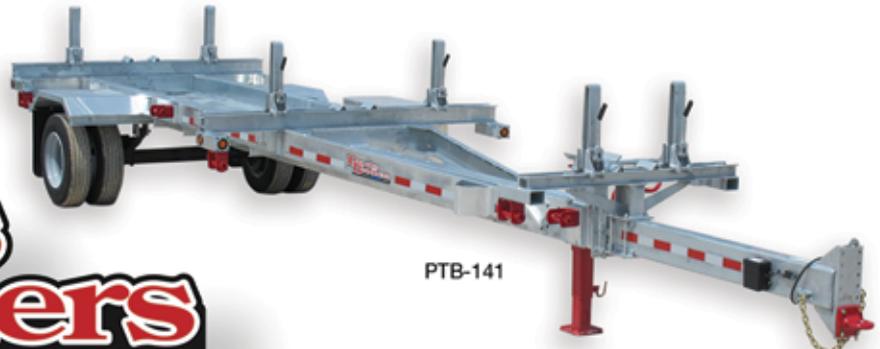
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## MB CRUSHER AMERICA DOUBLES UP AT CONEXPO 2020

*This edition will see MB Crusher America both at the demo area and in the centre hall.*

On March 10-14, 2020, at the Silver Lot - Booth #S5003 at Conexpo 2020, three of a kind will be demoing to show visitors how by simply attaching these units to the heavy machinery, the work is simpler.

Where there is the need to reduce, select, move and grind materials MB Crusher units are there. The units travel attached directly to the heavy machinery saving special haulage money, enhancing the use of the existing fleet, and last but not least, changing the way to work by processing material directly on-site avoiding its haulage hence saving money and time.

A jaw crusher bucket BF120.4 and a screener bucket MB-S18 will be reducing and sifting material, and the show will be completed by the newest line: the shafts screener. The product's advantages are the interchangeable shafts that allow a single unit to work with different materials, a unique solution for dump soil, asphalt, dry wood, compost and much more.

Inside in the Center Hall Booth, #C-31913 drum cutters, more crushers, and screening buckets will be on display, including the lines for compact units, loaders and skids. MB Crusher manufactures cutting-edge attachments that create value from waste, that are good for the environment and bring profit to the companies that use them.

MB Crusher's line of attachments represents an economic and innovative way to reuse the waste materials around the yard. A way to reduce the costs of transporting and disposing of the material. Suitable for any application and applicable to any brand of heavy equipment.

Since 2001 MB Crusher manufactures attachments, valuable and innovative units that work by the hydraulic

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system of the machine that installs them. Excavators, mini-excavators, backhoes and skid loaders, telehandlers, they all can work with an MB bucket, simply plug in and begin recycling.

MB Crusher's range includes the screener bucket: designed for the selection of natural material like pebbles, slag heap, sand, and soil in pre and post-crushing phase with the aim to reduce crushing time by 60%. Throughout the years this line has proven to have a wider range of application fields: beach cleaning, recovery of ferrous waste, washing coal in power stations and groundskeeping. Distinguished by versatility and conceived by the need to recycle with ease. There are 7 models in this line, the buckets are made of interchangeable panels to allow on-site changes to satisfy any type of processing.

MB grapples have a 360° rotation and a tilted coupler for a greater range of movement. Used for selecting and handling of any type of material in total safety and full reliability.

All 4 models are so responsive and enable really precise selection even for large or oddly shaped objects, moreover, the claws blade can be accessorized to be even more responsive in any job sites even when handling masonry in controlled demolitions in urban areas.

The MB Crusher drum cutters line is built with a Direct Drive Twin Motor System. This direct transmission dual-motor system allows a differentiated distribution of force on the two drum-heads. This provides an enormous advantage since the power force is managed autonomously by the drum cutter according to the toughness and resistance of the material. Moreover, this new generation of standard drum cutters also adopts an integrated Power Boost to augment the power of the cutter head, which requires more force and obtains exceptional results.

The company started in 2001 with the crusher bucket. A versatile jaw crusher. These units are responsible to have spread the concept of valorizing inert material is the job site wealth throughout the world.

A new way to operate was provided, practical and effective: reduce to recycle, invest in order to save money. MB Crusher bucket crushes debris and excavation materials in the same construction site that produced them. Brick, cement, reinforced concrete, granite, marble are some of the material that can be transformed by the MB Crusher bucket, also the output size is fully adjustable depending on what the site requires. Even material like glass, ceramic, light poles, sleepers, and reinforced concrete can be easily reduced with MB crusher bucket and start the reclaiming path.

An iron separator installed on the bucket crusher separates the iron portion. And during the operation, a dust suppressor reduces the dust from the crushing. Both kits are operated directly from the cab.

And it is thanks to these kits that MB products can work without problems in closed environments (for example inside sheds and galleries) and in urban and historical centres.

And of course at the demo areas of ConExpo 2020, we're also demoing the newest line: the shafts screener. These 4 units are radically different from other systems available on the market. They are designed to adapt to a range of working environments and select different types of materials with unprecedented simplicity and speed, without needing a specialist or special training.

Since 2001, the company has evolved while remaining true to its purpose which is: facilitating the work on-site and to make it competitive, self-contained and profitable. Continuing to accumulate and not managing inert material has When the right tools are chosen, the process is easily achieved, come to the MB Crusher America booths to speak become an unsustainable cost for our planet.

Recycling is much more than an opportunity, today it is more and more a solution. to a consultant and find out which units are the one for your machine and for your job site. •



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## John Deere Celebrates 50th Anniversary of Skid Steers With Restored Model at CONEXPO-CON/AGG 2020

John Deere is commemorating 50 years of being in the skid steer loader business in 2020 and will display a restored JD24 Loader model at CONEXPO-CON/AGG 2020 in Las Vegas, Nevada. Introduced in 1970, the JD24 Loader provided operators with the power to get more done with a compact machine in various construction, landscaping and moving materials in mining applications.

“The anniversary marks half a century of innovation and collaboration between John Deere and our customers,” said Gregg Zupancic, product marketing manager, John Deere Construction & Forestry. “We’re excited to hit this milestone and showcase the model amongst numerous technological advances at CONEXPO-CON/AGG 2020. After all, our skid steer lineup wouldn’t be what it is today without the customers and engineers who brought this machine to life 50 years ago.”

The JD24 entered the market boasting 37 horsepower. Designed as a four-wheel drive system, the loader included a multidisc transmission clutch on each wheel, providing complete machine control. With a sleek, low-profile design for improved visibility, and even weight distribution, operators could feel confident lifting material and maneuvering the machine around diverse terrains. Additionally, the machine frame could rotate 360 degrees, making it an optimal solution for working in tight or cramped spaces. The JD24 model featured a machine width of 65 inches (1,651 millimeters), weighed up to 4,750 pounds (2,154.6 kilograms), could travel up to 7 miles per hour and had an auxiliary hydraulics system that could produce up to 18 gallons per minute to power the first hydraulic attachments.

The John Deere skid steer family runs deep with various models and series debuting over the last 50 years, beginning with the JD24 in 1970, then a second Industrial Model 14 skid steer, and two agricultural skid steer models 70/170



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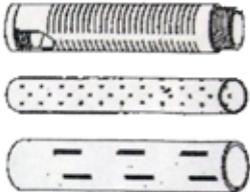
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(1975), the 60/90/125 (1979), 75-Series (1987), 75-Series II (1994), 200 Series (1998), 200 Series II (2001), 300 Series skid steers and compact track loaders (2004), D-Series skid steers and compact track loaders (2009), E-Series skid steers and compact track loaders (2013), and the latest, G-Series skid steers and compact track loader models (2016/2018).

"Having the opportunity to refurbish a JD24 model is an extraordinary moment for the brand's history," said Brian Holst, heritage marketing manager at John Deere. "Showcasing the refurbished JD24 model at CONEXPO/CON-AGG shows our customers where our skid steer production began, and how far we have come in technology and productivity over the last 50 years."

In celebration of the 50th year of being in the skid steer loader business, customers who purchase a skid steer loader built between March 1 through December 31, 2020, will receive a special decal on the machine. Additionally, die-cast models of the 332G skid steer loader in gold chrome with a 50th anniversary mark will be available for purchase at John Deere factory stores and at the CONEXPO/CON-AGG merchandise store.

To learn more, visit the JD24 display at CONEXPO-CON/AGG 2020, March 10-14, 2020, at booth N12525 or [www.John-Deere.com/vegas2020](http://www.John-Deere.com/vegas2020)



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## Creating a Safer, More Productive Lit Environment for Construction Workers

*Working with a lighting expert can help to optimize vehicle hazard, ground, scene, and surface lighting*

For fleet managers of construction/upfit vehicles with staff working in dangerous roadside, off-road, or construction site conditions, using the right quality of lighting can be the difference between life and death.

Roadside crews especially need effective hazard/strobe lights to warn nearby drivers of danger to prevent them from driving into the work zone. But even off-road or building site construction crews need similar protection to keep any traffic or work vehicles away from their workspace.

In these cases, safety is determined not just by using bright lights on the vehicle, but by producing optimal light quality to fully illuminate the environment and attract the attention of those nearby.

Proper lighting is also required to effectively light up the ground and surroundings, so the construction/upfit vehicle will not be driven or backed into a ditch, off a cliff or into any unsafe condition, in what otherwise can sometimes be complete darkness.

In addition, effective lighting is also needed at the jobsite, so construction workers can safely and efficiently complete any necessary tasks without endangering themselves or others. This includes effectively lighting

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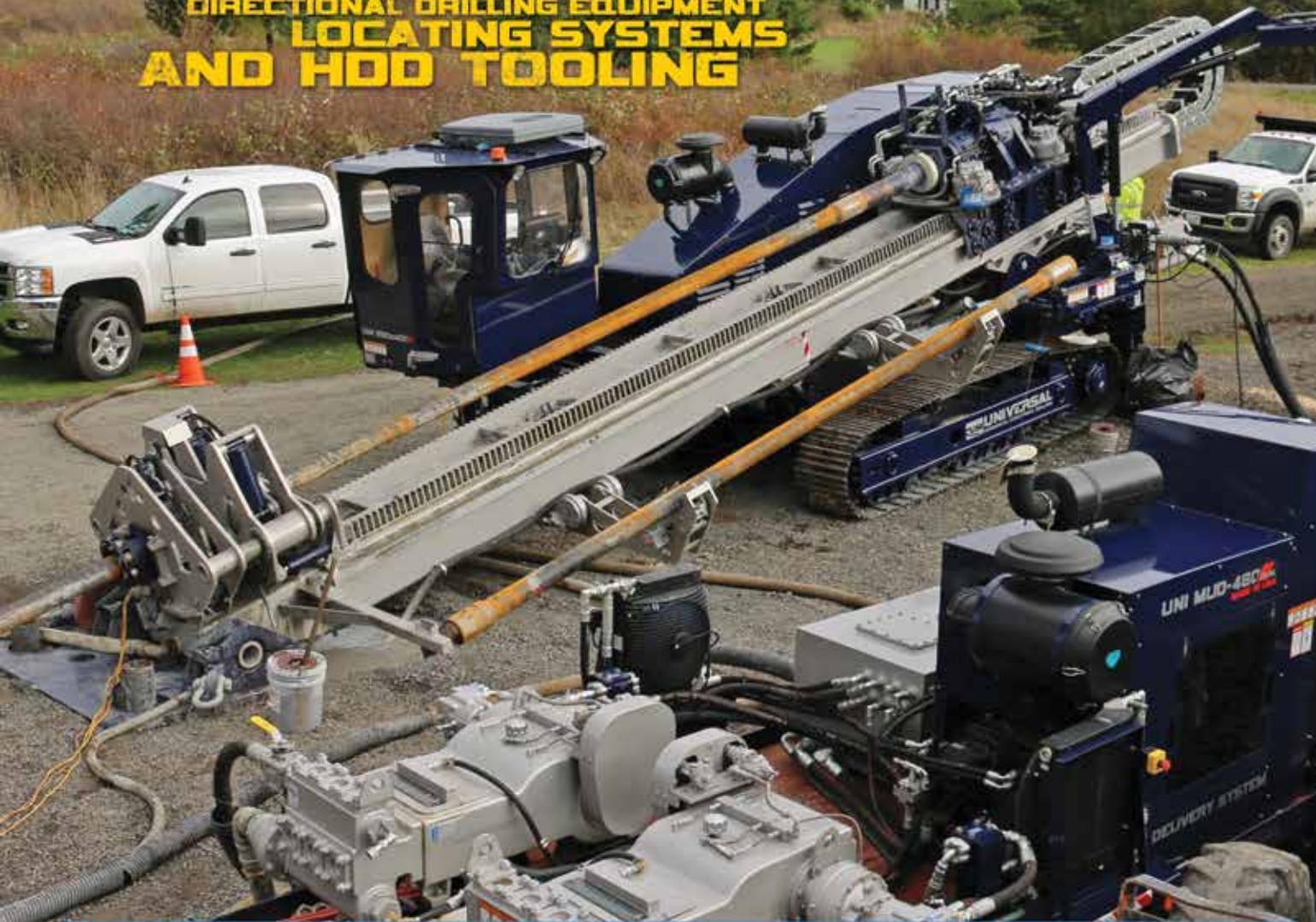
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up the scene and any work surfaces, so tools or equipment can be quickly accessed and safely used.

For versatile construction work trucks, this may require effectively lighting up open cargo areas, material racks, or hauling platforms for large-item storage. For accessing often-used equipment, external compartments, or over-and-under body toolboxes, these areas may also need to be lit up.

When making such lighting choices for upfit vehicles, working with an expert can help to optimize these lighting options for safety and productivity. The end result often reduces worker fatigue, stress, and error, while dramatically reducing maintenance, repair and replacement.

### *Hazard/Warning Lights*

With so many distracted drivers today, it is critically important to get the attention of nearby drivers to protect any construction workers that could be in harm's way.

So, typically, SAE Class 2 warning lights are used for construction vehicles that work along roadsides, while Class 1 warning lights (with four times the intensity of Class 2 lights) are used for emergency vehicles like fire, police, and ambulance. A variety of colors are also used, such as red for emergency vehicles and amber for vehicles that obstruct or impede traffic.

"To alert other drivers, when service vehicles may unexpectedly stop, turn, or move out of regular traffic flow, it is easy to incorporate strobe lights in hideaway areas such as in headlamp, tail, turn, or back up lamps that do not require additional mounting. Beacons or bar strobes can also be added. There are many options," says Mark Blackford, Director, National Fleet Sales at Grote Industries, a U.S.-based manufacturer and expert in vehicle lighting and safety systems.

### *Ground Lighting*

When upfitted construction vehicles have to drive or back up over uncertain terrain at night – sometimes in complete blackness – it is crucial to have good ground lighting, so the vehicle can safely navigate obstacles and does not end up in a ditch, hole, or other hazard.

While some manufacturers still use incandescent or halogen lights for ground lighting, these tend to fail prematurely due to short bulb life and high heat, which can put construction workers at risk.

Instead, Blackford recommends the use of advanced LED lights, which can last up to 10 times longer than incandescent or halogen bulbs, with much lower power consumption.

Just as important, such LEDs can provide significantly better light quality, which equates to better visibility and safety in dark environments, where there may be no other nearby light source

"Unlike traditional bulbs, the best LED lights today also can provide an even, high-quality white light color that is easier on the eyes and provides a contrast similar to natural sunlight for better visibility," says Blackford.

All ground lights should also be mounted below the vehicle shining downward, typically at a – 40° inclination, so the actual light source is not visible to the construction vehicle driver or others on the scene. "You don't want to directly view the light source providing the ground lighting, or it can dilate your pupils, so your eyes are no longer adjusted for nighttime viewing," explains Blackford.

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### *Scene Lighting*

Scene lighting is used when high-powered, long-range illumination is required from a construction vehicle, and usually takes the form of work lamps. Again, advanced LEDs are used when safety is paramount, and night must essentially be turned into day. This can help to eliminate stumbles, trips, falls, and work-related errors due to poor visibility.

However, there are different types of construction scene lighting, some of which are better suited for specific tasks.

“When construction work area lights are used on the rear of the vehicle, flood or wide flood LED lights cover the broadest area,” says Blackford. “To light up an area at a distance, we recommend trapezoid or combination light patterns. For the longest distance viewing, a spot light or pencil beam type pattern is usually the best choice.”

In terms of light quality, LEDs are far superior to halogens. Because the color of LEDs is closer to that of daylight than the yellowish hue of halogens, it appears brighter and can illuminate details of objects in the distance better.

LEDs also help construction workers see more at the edge of the scene, where traditional lamps tend to fade out. This improves safety and reduces eyestrain since it helps the worker more quickly and easily spot potential dangers and other important details. For the same reason, it also can increase worker productivity, particularly when the task lasts for many hours.

### *Surface Lighting*

Typically, surface lighting is called for when safe footing up steps or quick access to construction tools, equipment, and materials in compartments, truck beds and cargo areas is required.

While this can be accomplished by mounting LED lamps on the side of steps, or at the ends of compartments, an increasingly popular alternative is to install LED light strips wherever needed. Advances in thin-film LED technology not only produce brighter illumination, but do so using paper-thin, ultra-light strips that can be easily installed into the existing lighting power system.

The most rugged are resistant to damage from impacts, waterproof, able to withstand pressure washing with hot water, and resistant to the most common chemicals associated with vehicles in the event of exposure or spills, including motor oil, diesel fuel, battery acid, gasoline, and brake fluid. Installation usually involves just peeling off doubled-sided tape and pressing the LED strips into place.

The bottom line is that any construction fleet manager of upfitted vehicles can create a significantly safer, more productive lit environment for their staff working in the field.

Those who consult with a lighting specialist can not only optimize such choices, but also save dramatically on maintenance, repair and replacement over the service life of the vehicle fleet.

For more information, contact Grote at 2600 Lanier Drive, Madison, Indiana 47250; phone: +1 (800) 628-0809; e-mail: [info@grote.com](mailto:info@grote.com); or online at [www.grote.com](http://www.grote.com) •



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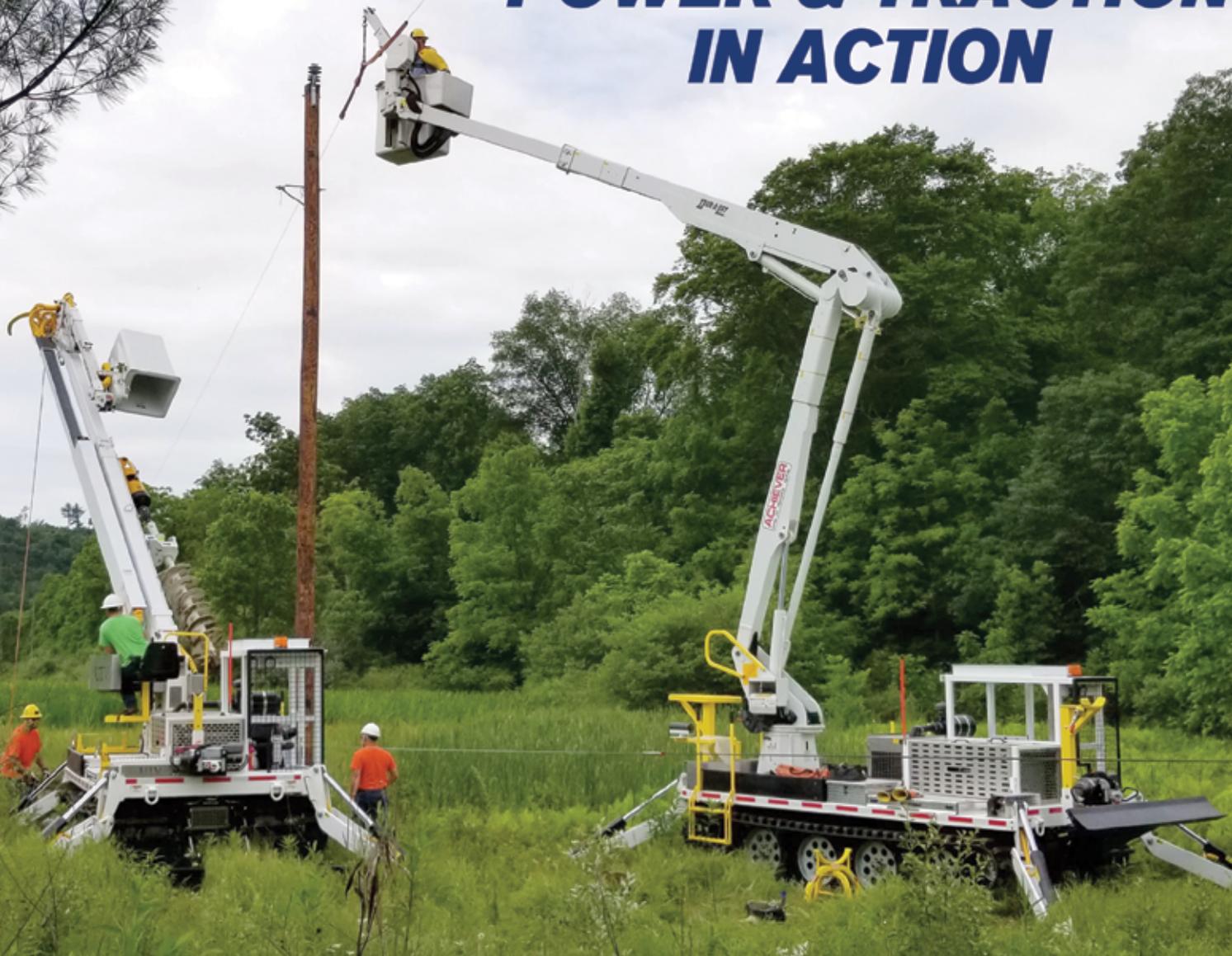
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