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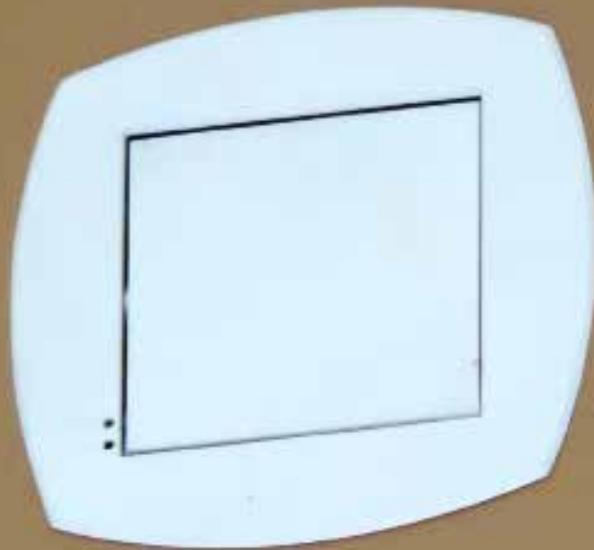
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Hidden Emergency Lighting Preserves Building Aesthetics While Meeting Code

Designs that stay out of sight until needed provide more attractive options for new builds, retrofits, and historic properties

While emergency lighting is critical to life safety and must function to code, no one wants to see the devices ruin the aesthetics of a building's interiors. So industry professionals are increasingly keeping the lights hidden or camouflaged until needed to ensure it artfully blends in with its surroundings.

"From the standpoint of interior architectural aesthetics, traditional wall or ceiling-mounted emergency lighting systems can be sort of an eyesore that establishments with a more refined look want to eliminate because it can take away from the architectural experience," says John Decker, IALD of Lighting Design Studio, a multi-disciplinary firm. The company has completed lighting projects for a variety of commercial spaces including resort hotels, spas, casinos, restaurants, retail and office spaces.

Now an innovative option, fixtures completely hidden behind closed door panels on walls or ceilings, is helping to meet emergency lighting code. Only in the case of emergency or power outage do the doors open and the emergency lights emerge to ensure sufficient light along the path of egress, as mandated by the NFPA and International Building Code (IBC). For even greater discretion, the panels can be painted, wallpapered over, and placed in locations out of the line of sight to make them completely inconspicuous.

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Design professionals often meticulously plan the aesthetics of various building elements including style, form, and materials in a wide range of structures. This can involve upscale hotels, resorts, restaurants, retail centers, office buildings, and concert halls as well as historic courthouses, museums, city halls, state and federal buildings.

A challenge, however, occurs when urgent project timelines lead to unfortunate compromises in building aesthetics, often in the area of emergency lighting, at the last minute.

“When building owners and end users pay for architectural services, they may have a wonderful structure with everything considered in the space – until the end of the project when ill-considered, utilitarian, even ugly, emergency lighting is installed to provide light for emergency egress,” says Decker.

“In nicer hospitality, entertainment, office, and service settings with refined interiors –like hotels, resorts, restaurants, spas, casinos, museums, historic districts, and themed amusement parks – foreign looking emergency lighting fixtures mounted to the walls or ceiling can look really out of place,” he adds.

While there are many emergency lighting approaches available that will sufficiently provide one foot candle of illumination along the path of egress as specified by the NFPA, these options typically begin with deciding on the type of power source that will be used in the event of a power outage.

Often, existing architectural lights are incorporated if possible, powered by centralized inverters or gen-

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erators. However, when that is not sufficient, dedicated battery powered emergency lights may be required, but these can be obtrusive and unattractive.

"If the engineer proposes to put ugly, 'bug-eye' emergency lights in a beautiful interior space, we try to find aesthetic solutions that still meet the code requirement of providing enough egress lighting for emergency situations – while maintaining the beauty of that space," says Decker, who is a trained architect.

"Bug-eye" is the colorful term used to describe typical emergency lighting that surface mounts on the wall with a battery box under two lamps that resemble a bug's eyes.

Decker says there are superior methods for hiding, or concealing, emergency lighting.

The first method is to utilize a backup battery hidden in the housing of a lighting fixture, such as a recessed downlight or suspended linear luminaire. In the event of a power failure, the battery will then supply emergency lighting for a designated amount of time as determined by code.

However, Decker points out another alternative. He points to Isolite, a manufacturer of specification-grade emergency lighting products. The company offers the Genie, along with a more compact version called the Mini Genie, that remain fully recessed behind two flat panel doors installed in the ceiling or walls until needed.

"With the Genie and Mini Genie, you have a concealed look architecturally, but under normal loss of power the battery kicks in, the doors open, and the lamps pop out to light the way," says Decker.

"The recessed solution lends itself to maintaining the integrity of the architectural interior space, so it works functionally and aesthetically," he adds.

While having emergency lights emerge from door panels when needed keeps them out of the way, lighting professionals like Decker also value the ability to camouflage them as well.



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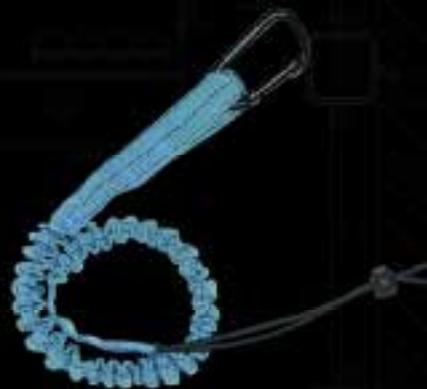
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With both of the units, the flat panel doors lay flush with the trim and mounting surface, and exterior trim can be painted or wall-papered to match any color or decor so as to blend in with the architecture.

Because these emergency lights are fully self-contained and can be recessed into walls or ceilings, they are virtually invisible during normal lighting conditions, and thus eliminate unsightly, surface mounted emergency lights and battery packs.

“When the Isolite products are fully recessed and the panels are painted or wallpapered to match their surroundings, you really cannot see them unless you are specifically looking,” says Decker.

According to Decker, the design and engineering team utilized this approach for emergency lighting in the themed, Camp Jurassic caves at Universal’s Islands of Adventure in Orlando.

“We used a Genie product, and it was painted out so you really couldn’t see it unless you were looking for it,” he says. “It maintained the integrity of the aesthetics.”

While this approach can enhance the aesthetics of new builds and retrofits, it is particularly helpful in preserving the “look and feel” of historic buildings, which still must accommodate life safety and security needs, as well as update building systems appropriately.

Such implementation strikes a balance between retaining original building features and accommodating new technologies and equipment.

In fact, the Mini, which can wall mount with a total depth of 3.5”, is also well suited for shallow plenum applications, the narrow space between the structural ceiling and drop-down ceiling used for HVAC air circulation.



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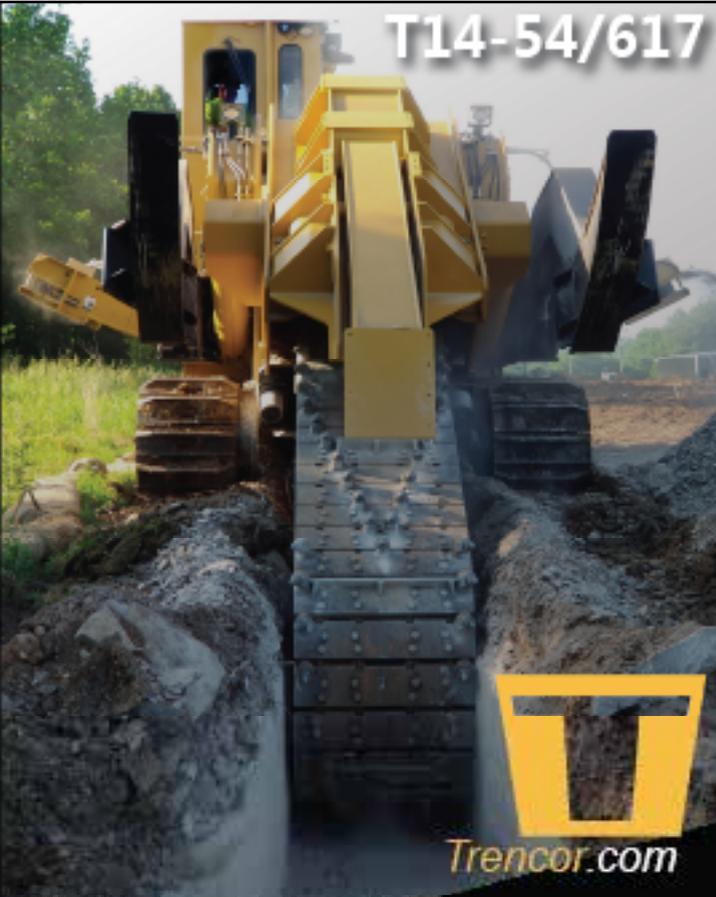
"Lighting the path of egress from a lower vantage point makes sense in situations where there is a fire because all the smoke rises and [if it were higher] it could block some of the light," says Decker.

With such new tools to make emergency lighting less conspicuous, building design professionals can now preserve elegant, architectural quality aesthetics while meeting emergency lighting and life safety codes.

"Wherever aesthetics are valued, concealing emergency lighting should be an option," concludes Decker.

For more information, contact Isolite at 31 Waterloo Avenue, Berwyn, PA 19312; call 800-888-5483; or visit them on the web at www.isolite.com

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Road Dryer RD-1200

Safely Dries Pavement in One Pass For Paving, Surface Treatments



The RD-1200XT pavement-drying unit from Greenville, South Carolina-based Road Dryer, LLC, quickly dries asphalt and concrete pavement, allowing crews to pave or apply surface treatments or striping after just one pass. The unit, which blows heated air up to 300° F directly downward through multiple nozzles, eliminates the risk of “flying objects,” and allows traffic to flow in nearby lanes — reducing congestion caused by traffic restrictions. Available as a simple-to-operate trailer- or truck-mounted unit, the RD-1200XT can be adjusted for 8-ft to 12-ft (2.4m to 3.7m) drying widths. Because it dries pavement on demand, it provides flexibility for contractors and government agencies to meet timetables by minimizing delays from weather- and project-related wet conditions.

Traditional attempts at drying pavement for construction or maintenance work have typically involved the use of jet engine dryers, infrared heat, or portable blowers, combined with brooms and manual squeegees. Each of these methods has its own limitations and safety concerns, including the use of jet fuel, noise, melting pavement, danger from thrown rocks or other objects, and slow results. Because of this, traffic is often fully restricted from traveling on roads or runways where drying work is taking place. The Road Dryer eliminates all of these issues, as it swiftly and safely dries the pavement. The RD-1200XT preconditions the incoming air to remove moisture prior to heating and directing

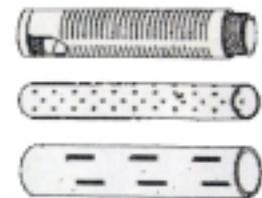


the heated air to the road, allowing faster drying time. The unit will not harm asphalt, as the flow of drying air does not exceed 300° F.

Weather is not the only cause of wet pavement. Milling processes also use water to cool grinder teeth, leaving the road surface wet and unsuitable for paving until dry. The Road Dryer can follow behind a milling machine and immediately dry the pavement for resurfacing. Because the pavement is typically ready for paving or surfacing within an hour, it allows for increased throughput by several road miles per shift. For striping operations, hydro-blasting leaves the road surface



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wet, and it must be dried before new paint may be sprayed. With a Road Dryer RD-1200 following the hydro-blaster to dry the surface, a paint sprayer may be run immediately behind the Road Dryer unit, to paint or repaint lines.

About Road Dryer, LLC

Road Dryer, LLC, brings innovative technology to the paving industry, providing contractors and government agencies with efficient, safe, time-saving options. The ability to dry paving surfaces on demand provides unprecedented flexibility in meeting budgets and timetables by minimizing delays caused by wet conditions or processes. With corporate offices in Greenville, South Carolina, a manufacturing facility in Palm City, Florida, and a growing dealer network, Road Dryer provides equipment sales and leasing throughout North America and around the world. The company can provide experienced operators, as well as onsite training for crews. For more information, contact Road Dryer at +1 864-272-2988, email info@roaddryer.com.

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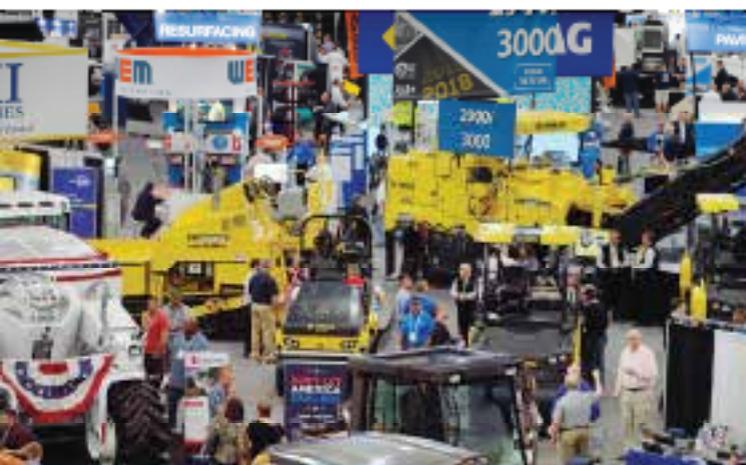
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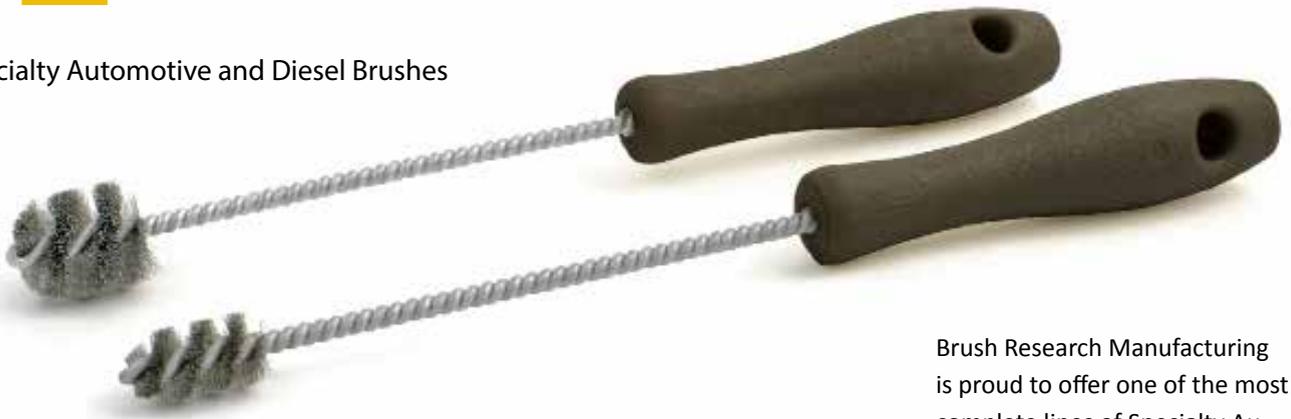


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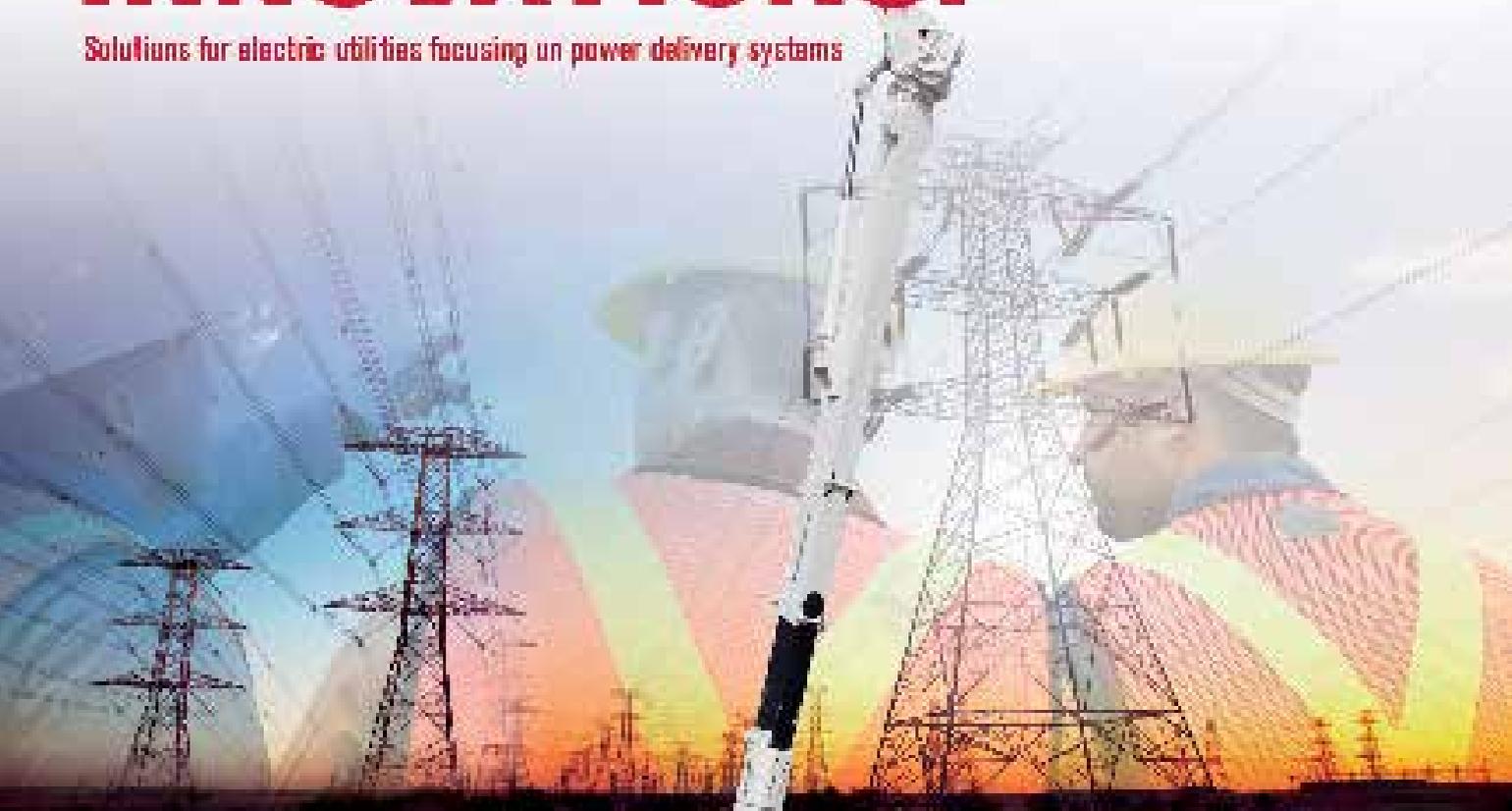
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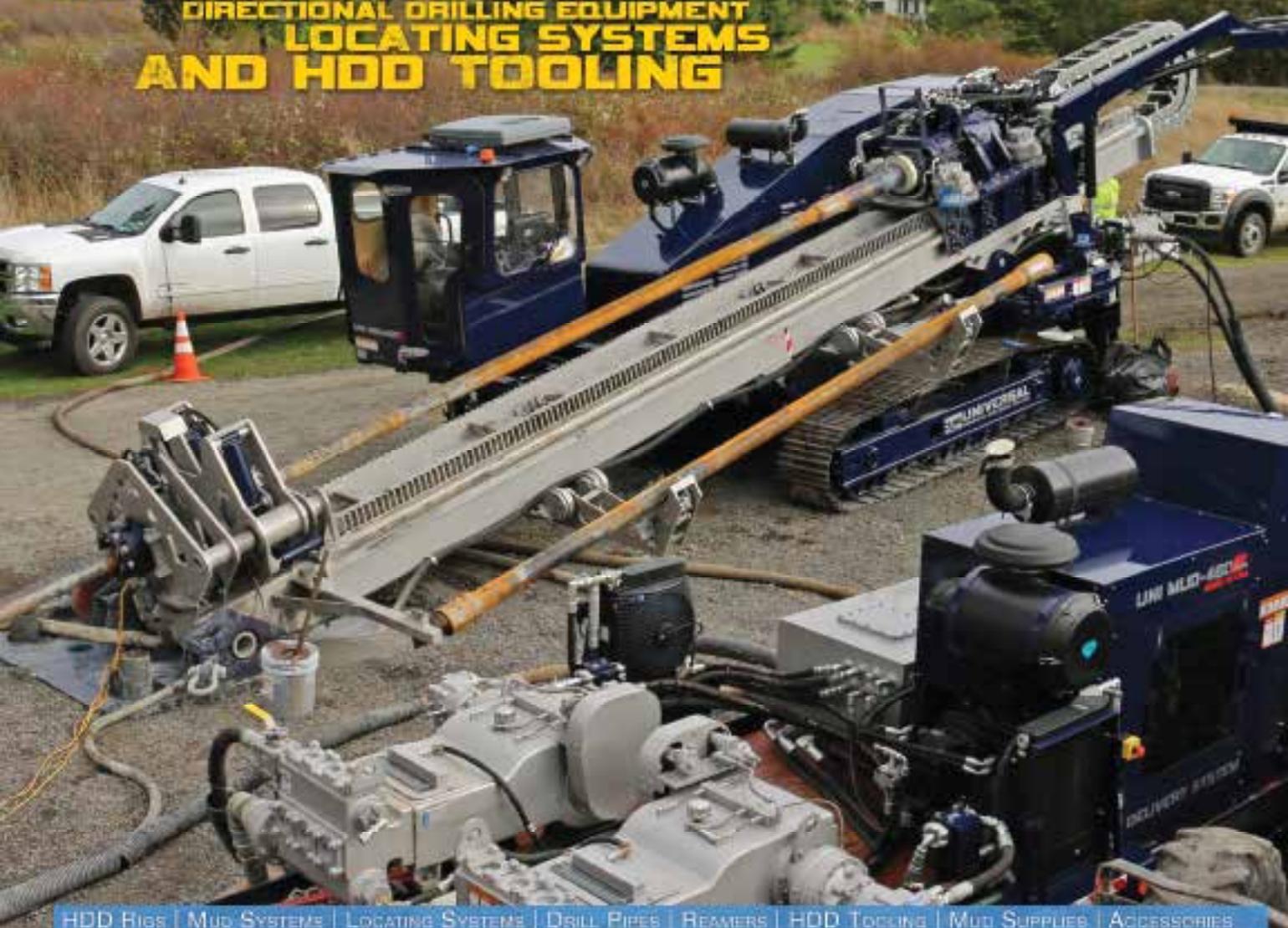
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