

# GPN

## Government Product News

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### The 2014 Work Truck Show presents:

Versatile vans, dump bodies, vehicle lifts and more fleet products on display P.6

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**INSIDE** ▼



Parks and Recreation Products  
P.12



Emergency Management  
P.16

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**Editorial Director/Associate Publisher**

Bill Wolpin  
bill.wolpin@penton.com

**Senior Editor**

Michael Keating  
michael.keating@penton.com

**Managing Editor**

Erin Greer  
erin.greer@penton.com

**Art Director**

Wes Clark  
wesley.clark@penton.com

**Contributing Editors**

Bridget Akridge Elizabeth Bernardi  
Claire Broome Julie Klare  
Derek Prall Alicia Steindam



GOVERNMENT PRODUCT NEWS  
Penton®

6190 Powers Ferry Road NW, Suite 320  
Atlanta, GA 30339

<http://www.americacityandcounty.com/gpn>

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For List Rental Inquiries, contact Justin Lyman,

Online Marketing Manager, 913-967-1377, [justin.lyman@penton.com](mailto:justin.lyman@penton.com)

Purchase copies on microfilm:

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Circulation/Subscription Customer Service:

Penton® Customer Service, P.O. Box 2100, Skokie, IL 60076-7835; Phone: 866-505-7173; fax: 847-763-9522; e-mail: [governmentproductnews@halldata.com](mailto:governmentproductnews@halldata.com)

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## Note to vendors:

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The Freightliner 114SD is tough enough for any job, working hard on-site and within your budget. With up to 470 horsepower, 1650 lb-ft of torque and a steel reinforced aluminum day cab that provides durability without excess weight, these trucks offer the very model of civic efficiency.

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# UP FRONT

## Asphalt pavement cutters

The new rear-rotor-design BM-35 Series (models BM1000/35, BM1200/35, and BM1300/35) expands the manufacturer's cold milling product range. This cutting system uses a single bolt for holder retention and requires a low tightening torque of 75 feet-pounds. The low front face position increases efficiency and overall milling power, while allowing desirable full-tooth rotation. Tempered steel material extends the service life.



The new models incorporate a logical operating layout, easy intuitive controls, and low noise levels. The vibration-isolated operator's stand features a comfortable swivel seat design.

### **BOMAG Americas, Kewanee, Ill.**

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## Mobile generators

These new mobile generators, models G70WCU, G85WCU and G125WCU, are Tier 4i-compliant. They feature an innovative cooling system with a variable speed fan. The enclosure includes deep air intake pockets that protect the generator from external elements and virtually eliminate water entry. The airflow management system on the engine routes heat without compromising sound attenuation, resulting in low operating sound levels



of 64 to 67 decibels adjusted, depending on the model. A fuel-efficient Tier 4i-compliant Cummins QSB5 engine powers the generators, with runtimes ranging from 24 to 38 hours at 100 percent load. A voltage selection and dual frequency feature enhance the versatility of these generators.

### **Doosan, Statesville, N.C.**

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## Semi-rugged tablet PC

The Durabook model CA10 is a semi-rugged tablet PC suited for field workers in the utilities, fleet management and public safety sectors. The 10.1-inch TFT LCD display has a two-point resistive

## Industrial gloves with touch-screen capability

HyFlex 11-101 and 11-105 gloves are touch screen-capable gloves for industrial work environments. Both gloves are manufactured with a special conductive yarn designed to allow seamless interaction with touch screen equipment. While both models feature a layer of polyurethane coating for enhanced sliding and finger movement, they feature different dipping styles to meet specific user needs. The 11-101 is palm-dipped for optimum mechanical resistance and protection, while the 11-105 glove is finger-dipped for improved fit and flexibility.

### **Ansell, Iselin, N.J.**

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touch-screen panel. It supports a digitizer for turning analog touch inputs into digital inputs. A hot swappable dual battery design offers up to eight hours of power. It meets the IP43 standard for dust and water spray resistance from all directions, and it meets Military Standard 810G for drop and shock resistance. It functions in temperatures as low as 0 degrees Fahrenheit.

### **GammaTech, Fremont, Calif.**

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## Positive displacement pumps

The A-Series eccentric disc pumps have incorporated a variety of upgrades, and are available in ductile iron models. The pumps include ISO PN16/ANSI 150 flanges, with the option of Mouvex or standardized mechanical seals. Maximum differential pressure has been increased from 5 bar to 10 bar for safe transfer of viscous, non-lubricating, volatile or delicate fluids. The positive displacement pumps have maximum speeds of 600 rotations per minute, maximum flow rates of 55 cubic meters per hour and suction and discharge ports from 1½ to four inches in size. These pumps handle products up to 176 degrees Fahrenheit. They feature self-priming and run-dry capabilities, and are suited for oil and gas applications.

### **Mouvex, Auxerre, France**

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## Roll-out bucket

The JRB Roll-Out Bucket for wheel loaders makes it easier to clear 13-foot-6-inch haul trailers. The bucket uses twin, dual-cushioned cylinders to tip the bucket on its edge. These cylinders also provide smooth operation. The bucket is available in either quick-coupler or pin-on attachment styles and includes the jumper hoses. Bucket sizes range from



4- to 7-cubic-yard capacities in half-yard increments. The carriage arms are positioned on the outer shell of the bucket to add stabilization. Sloped cylinder housings virtually eliminate

the compaction of material in the pockets. The integrated mesh viewing panels give the operator better load visibility. The equipment is suited for recycling centers, landfill/transfer stations and applications where accurate load placement is required

### **Paladin Attachments, Dexter, Mich.**

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## Laser distance meter

The micro LM-400 Advanced Laser Distance Meter reads distances up to 229 feet in length. Features include: a large, backlit, four-line display screen; an inclination angle measurement system for indirect measurements in hard-to-reach areas; and an advanced calculation feature to adjust units instantly to inches, feet or meters. The unit saves up



to 20 measurements at a time. The product is IP 54 dust- and splash-proof and automatically shuts off after three minutes of inactivity. The meter is compatible with smartphones and tablets. The free downloadable RIDGIDsketch App enables wireless transfer of measurements to a room floor plan, photo or sketch.

### **Ridgid, Elyria, Ohio**

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# WORK TRUCK PREVIEW

## New technology is the focus of Work Truck Show

by Alicia Steindam



It's all about technology at the 2014 Work Truck Show, which takes place at the Indiana Convention Center (in photo above) in Indianapolis March 5-7. This year, the National Truck Equipment Association (NTEA), the Association for the Work Truck Industry, which produces the show, celebrates 50 years of service to its members and the industry.

"Our 50th year is a milestone, but the Work Truck Show 2014 is all about the future," says Mark Woody, NTEA 2014 convention chairman and president of Palfinger North America, which is based in Niagara Falls, Ontario. "For the show and beyond, there is a real focus on new technology, equipment and ways of thinking that are necessary for industry professionals to thrive."

The Work Truck Show brings together more than 10,000 attendees comprised of fleet managers, equipment buyers, manufacturers, maintenance personnel, distributors and dealers. Attendees can choose from more than 60 industry-

focused training courses and presentations. Former Secretary of State Condoleezza Rice tops the list of speakers at the show.

More than 500 exhibitors are presenting new vocational trucks and equipment in a 500,000-square-foot product showcase. Products displayed will include truck chassis, bodies and equipment; cranes and aerial devices; power takeoffs; snow and ice control equipment; liftgates; cargo management solutions and more.

### Educational sessions

The training sessions and workshops at the 2014 show cover job-relevant topics and issues impacting the industry. The courses cover vehicle certification, truck design and specification, trends and forecasts, government legislation and regulations, federal excise tax laws and requirements and updates from original equipment manufacturers (OEM).

### The classes available include:

- Calculating Weight Distribution and Payload for Work Trucks Made Simple
- Understanding Vehicle Certification — the End-User and Fleet Perspective of Risk Management
- Planning for Your Company's Future: Identifying Upcoming Industry and Economic Trends
- Preventing Costly Truck Frame Modification Mistakes
- Understanding Crane Stability Testing
- Deploying Alternative Fuel Vehicles: Impacts on Your Fleet Operations

- How to Inspire Loyalty and Effort in Your Team  
Government fleet managers should attend the Remote Fleet and Mobile Work Crew Management Technologies Symposium at the show. This course on March 4-5 has been updated to include a new focus on the use of remote tracking and measuring technologies. Instead of assigning a manager to every work crew or shop, fleet operators today can oversee progress, handle maintenance issues and take inventory from a single location. An array of modern mobile technology will be discussed, including GPS, telematics, software and credit cards.

### In addition to the educational sessions offered, the following special sessions are on tap (ticket required):

- Customer Service: Creating a World-Class Service Organization
- Parts and Service Marketing: Making a Difference
- Indiana Local Technical Assistance Program Winter Maintenance Course
- Generation Next Leadership Workshop & Networking Reception: How to Become a Superior Communicator

### President's Breakfast

The NTEA welcomes Rice as the keynote speaker at the President's Breakfast & NTEA Annual Meeting. Rice is a senior fellow on public policy at the Hoover Institution. She is also a professor of political science at Stanford University and





# WORK TRUCK PREVIEW



a professor of political economy in Stanford's Graduate School of Business. Rice is a founding partner of international strategic consulting firm RiceHadleyGates, LLC. She serves

on the boards of KiORs, a renewable fuels company; C3, an energy software company; and Makena Capital, a private endowment firm.

Rice's speech at The Work Truck Show will include insights from the political arena as well as her educational and managerial career. "Condoleezza Rice has a diverse leadership background that will inspire our NTEA members and other Work Truck Show attendees," says Woody.

## The Green Truck Summit

Held in conjunction with The Work Truck Show, The Green Truck Summit provides education on clean vehicle technology innovations for vocational trucks. Technical experts, government officials, industry leaders and early-adopter fleet managers will be on hand to share their insights and lessons on green technologies.



**This year's summit takes place Tuesday, March 4 and Wednesday, March 5. Participants will learn about:**

- Advanced technology trends
- Ways to reduce fuel consumption
- Technology selection and deployment strategies
- Funding opportunities and incentives
- Critical advances in engine and fuel technology
- Implementation challenges
- Determining return on investment
- OEM strategies for incorporating advanced technologies into future product offerings

Related events and activities for The Green Truck Summit include the Green Truck Ride-and-Drive, Productivity and Fuels Pavilion and sessions on vehicle efficiency and design optimization.

Registration for The Work Truck Show 2014 is now open. To sign up or find more information, visit [www.ntea.com](http://www.ntea.com) or call 1-800-441-6832.

## EXHIBITORS

### Powerful pickup

The 2014 Chevrolet Silverado 1500 is available with a 6.2-liter V-8 engine that produces an SAE-certified 420 horsepower (at 5,600 rpm) and 460 pound-feet of torque (at 4,100 rpm). The powerplant produces the most power of any pickup engine and torque of any light duty



pickup truck engine, according to the company. The 6.2-liter V-8 delivers maximum available trailering capacity of 12,000 pounds when properly equipped. The engine features direct fuel injection, Active Fuel Management (cylinder deactivation) and continuously variable valve timing.

### Chevrolet, Detroit, Mich.

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### Full-size van

ProMaster is available in 13 configurations, including two roof heights, three wheelbases and four body lengths. Its box body maximizes interior space capability and utility. Its expansive exterior body surface makes ProMaster an ideal



traveling billboard for agency signage and branding. The van's standard, wide-opening rear doors have a 260-degree swing for easy access and backing up to loading areas. A 3.6-liter Pentastar V6 mated to a six-speed automatic transmission powers the vehicle. Ram ProMaster's heritage begins with the proven Fiat Ducato. The Ducato platform is now in its third generation with over 4.5 million sold over the last 30 years. A new, dedicated Ram Commercial division supports the Ram ProMaster lineup.

### Ram Truck, Auburn Hills, Mich.

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### Four-post lifts

These four post lifts range in capacity from 19,000- to 75,000 pounds, and can accommodate all trucks, loaders, buses, street sweepers and public works vehicles. The lifts provide under-vehicle access for all types of repairs



and feature multi-position mechanical safety locks in all posts. Optional equipment includes rolling jacks, track lighting and oil drain pans.

### Mohawk Lifts, Amsterdam, N.Y.

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### Fiberglass tonneau line

The WorkCover LS fiberglass tonneau cover line expands to include 2009 to 2014 Ford F-150 short bed trucks. The WorkCover LS features two doors on each side. The cover opens from the rear of the truck using a hinge system at the front. Painted to match the vehicle, the WorkCover LS



features approximately 3 extra inches of storage room above the bed rail. It offers the driver excellent rear visibility from the cab. It is designed to keep products secure and out of sight. The company offers options such as remote keyless entry and LED strip lighting to illuminate the bed.

### A.R.E., Massillon, Ohio

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### Rotary screw electric air compressor

This D.C. electric rotary screw air compressor uses battery and electric vehicle technology. The Twister E60 is suited for mobile or stationary compressed air needs. Compact welders and



boosting systems work well with the unit. It offers airflow of up to 60 cfm with zero emissions and near silent operation (64dB). The unit is an alternative to mobile- or truck-mount air compressors. It

eliminates the need for service vehicles to idle continuously while at a job site. The compressor's compact size allows more room for tools.

### Airworks Compressors, Edmonton, Alberta

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# WORK TRUCK PREVIEW

## Mobile wheel lift

The MW-500 Mobile Wheel Lift removes and positions any size wheel or tire weighing up to 500 pounds, making it more ergonomic for technicians to work on heavy-duty trucks, buses and construction equipment. The arms feature rollers that allow the wheel to be rotated 360 degrees when aligning it with the hub, and are mounted on an offset column to provide unobstructed access to the lug nuts. A single technician using a vehicle lift can lift the truck to a working height, raise the wheel lift, remove the lug nuts and lower the wheel to the ground without strain.



## Rotary Lift, Madison, Ind.

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## Alternative fuel heaters

The Work Ready Single Closed-Circuit heating system preheats fleets and eliminates the need to idle engines. It reduces wear, emissions, downtime and slow starts. Work Ready systems also remove the need to bring trucks in overnight, use outlets to plug in



block heaters and wait for hydraulics to heat up. The systems' accessories, including hydraulic heaters, oil pan heaters, cab heaters, thermostats and timers, allow flexibility to meet the needs of different fleets. The single, closed-circuit, coolant-based heating system is powered by natural gas or LP.

## Aqua-Hot Heating Systems, Frederick, Colo.

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## Coupler pin lock

The Bolt Coupler Pin Lock features an adjustable pin, making it ideal for many types of couplers. It offers peace of mind with unattended hitched vehicles. The lock features one-key lock technology, enabling it to be permanently programmed to the vehicle's ignition key. The weatherproof product fits couplers from 1/2- to 3/8 inches and is adjustable in increments of 1/8 inch. The lock is designed to slide along the stainless steel pin and is engineered with no



exposed shackle. It features a plate tumbler sidebar to prevent picking and bumping, and its stainless steel lock shutter helps keep out dirt and moisture.

## STRATTEC Security, Milwaukee, Wis.

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## Flip step

The Tool Box Flip Step 10 mounts to existing holes for a quick and easy install. The Hoop II step is flipped up and down by the operator's foot allowing easy access to the side bed area of a pickup truck. The step is made from rugged alloyed aluminum and the mounting brackets are 3/16-inch steel plate. They are powder-coated for durability. The step is 500-pound rated.



## CARR, Temecula, Calif.

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## Second-generation hybrid system

The second-generation parallel-electric hybrid system for small para-transit buses, shuttle buses, and package delivery applications features improvements in durability and control software. It interfaces to a vehicle, making it easy to access hybrid advantages, including acceleration



performance, less fuel consumption and reduced emissions. The system deploys ultra-capacitors and offers a design that makes it easy to install and remove. It is compatible with gasoline, diesel, propane and compressed natural gas engines. The system can be installed in new and used vehicles, and can be transferred from one vehicle to another.

## Crosspoint Kinetics, Indianapolis, Ind.

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## Custom dump bodies

CrysteelSelect custom dump bodies allow customers to design their own dump body without incurring the extra cost and time normally associated with custom designed products. Select dump bodies are available in traditional square body styles or elliptical bodies, in sizes ranging from 5- through 20-cubic-



yard capacities. Other options are available for tailgate design, side height, floor material and understructure design. A range of accessories complements the Select body program.

## Crysteel Manufacturing, Lake Crystal, Minn.

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## Adjustable height control linkage kits

The Kwik-Link line of height control and leveling valve linkage kits are suited for the OEM market and as aftermarket replacements. They are available in two sizes. The units require no cutting, so labor expenses are reduced. The links are designed with high quality steel and a lined elastomer bushing system. The links adjust



and install with ease: simply loosen two screws, slide the links to the desired length and tighten. The product withstands high impact shock and allows +/-10 degrees of torsional rotation.

## Dayton Air Control Products, Dayton, Ohio

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## Heavy-duty dump body

The Alumax heavy-duty aluminum dump body combines strength and low weight. The decreased weight of aluminum increases payload capacity, minimizes fuel consumption and can improve truck life. The Alumax features an 8-inch extruded top rail that resists bowing. The bottom rail, which includes an inside radius for faster and cleaner dumping, ties the deck, sides, crossmembers, vertical posts and outside dirt



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sheddens together. Aluminum 5<sup>3</sup>/<sub>4</sub>-inch I-beam longmembers have an integrated rubber track and rubber riser. The 4-inch stacked U-shaped crossmembers provide extra load bearing vertical walls. The unit's crossmembers are on 12-inch centers and feature gussets at each crossmember.

## **DuraClass, Tishomingo, Miss.**

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## **Automated Transmissions**

The UltraShift PLUS Vocational Construction Series (VCS) automated heavy-duty transmissions have an overall gear ratio of 20:1. This deep reduction gearing and multiple high-speed reverse design meets the needs of highway construction work and general dump operations. They feature driveline safeguards such as auto gear selection, stall prevention, engine over-speed and clutch abuse protection. Transmission features include a fully automated two-pedal design and electronic



clutch actuator. The series is designed for on/off highway performance. Safety features on the series include auto neutral and Hill Start Aid. Drivers can choose from automatic, manual and low modes.

## **Eaton, Galesburg, Mich.**

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## **Twin steer prep kits**

The company announces twin steer chassis prep kits for its 114SD and 122SD truck models. The prep kits will serve to quickly facilitate aftermarket conversions and installation of second steer axle and heavy-duty suspensions, resulting in faster delivery to the customer. A partnership with Baie-Saint-Paul, Quebec, Canada-based Simard Suspensions yields a turnkey solution ideal for heavy-duty applications such as crane, dump, wrecker and mixing. The kits provide a comfortable and reliable ride. Severe duty



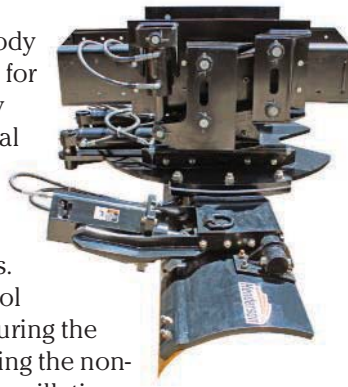
twin steer chassis provides a stable platform for increased truck efficiency and performance.

## **Freightliner Trucks, Portland, Ore.**

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## **Underbody scraper**

The SNOWFOE Oscillating Underbody Scraper is designed for year round use. Key features include dual lifting cylinders, full reversing action and dual oscillating cylinders. Snow and ice control features can help during the winter months. During the non-winter months, the oscillating cylinders provide the driver a way to control the blade's pitch (up to 6 degrees of tilt) and apply downward pressure at the same time. With all three functions working in unison, this underbody scraper becomes a road grader. Applications include road crown rebuilding, shoulder reshaping, pothole filling, road washboard correction or addressing surface irregularities.



## **Henderson Products, Manchester, Iowa**

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## **Universal tilt mount**

The All Makes AERO CLAD bumper with universal tilt mount is for ProStar trucks. It will convert any fixed mount bumper into a tilt mount configuration. It is fully compatible regardless of model year. The bumper offers nearly 4 inches of additional ground clearance, and is 15 pounds lighter than the standard plastic bumper



with chrome overlay. The company provides a line of bumpers for ProStar trucks that include several mounting options. AERO CLAD offers the look and finish of chrome, is corrosion-resistant and weighs less than traditional metal. The AERO GUARD bumper, which features injected-molded resin, offers durability.

## **Hendrickson Bumper and Trim, Crest Hill, Ill.**

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## **Precision applicator**

The Hi-Way Xzalt precisely applies a 70:30 mixture of salt/liquid to winter streets. This mixed material creates less bounce, less wind effect and improved road adhesion that accelerates ice melt and reduces environmental impact. Operators adjust symmetrical or asymmetrical patterns on one, two or three lanes. The unit's spinner assembly swivels for accurate placement of material. The speed of the conveyor and spinner automatically adjust to apply the spread pattern precisely to the left, center or right of the spreader. The Xzalt spinner, conveyor, liquid



pump and feedgate are equipped with sensors that send information back to the control.

## **Highway Equipment, Cedar Rapids, Iowa**

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## **Propane body, electric cranes**

The Dominator propane mechanics body package has been enhanced to increase operator productivity. Featuring more tank hauling capacity and an IMT Model 6000 telescopic crane, the unit is ideal for transporting and handling two 500-gallon tanks, one 1,000-gallon tank or up to 13 100-pound



tanks. The aluminum side panels and tailgate on the Dominator propane body have been reduced from 12 inches to six, allowing the truck to fit a second 500-gallon tank or a 1,000-gallon tank. The unit offers optimized tool and parts access.

## **Iowa Mold Tooling, Garner, Iowa**

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## **Productive work truck package**

The EnPak work truck solution is enhanced with a 60-cfm air compressor, 20-gallons-per-minute Eaton hydraulic pump, 6000-watt generator and 2,400-watt EnVerter, powered by a 24.8-horsepower, Tier IV Final-compliant Kubota diesel engine. Integrated with the truck's fuel supply and battery, EnPak allows for full jobsite



functionality with the work truck's engine turned off. The product facilitates simultaneous operation of the generator, compressor and hydraulics. One mechanic can weld on one side of the truck while another grinds or uses an impact wrench on the other side without any lag in power.

## **Miller Electric, Appleton, Wis.**

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# WORK TRUCK PREVIEW

## Dump body design

The newly redesigned line of Eliminator LP dump bodies is available in carbon steel, aluminum and stainless steel construction in 9- and 11-foot lengths with interchangeable parts. A 12-foot model is available in carbon steel and aluminum. The steel model now features a seamless, one-



piece 10-gauge steel floor for optimum strength and durability. A lower mounting height improves stability on all models, while a full 9-foot inside diameter allows for full sheets of plywood or other materials. All Rugby Eliminator LP models are available with fold-down sides and feature EZ-LATCH upper tailgate mechanism.

### Rugby Manufacturing, Rugby, N.D.

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## Drop spreader

These two tractor-mounted Drop Pro spreaders are built for the controlled application of bagged ice melters and bulk rock salt. Featuring precise, gate-free operation, the units are ideal for use



on sidewalks, campus parking lots, parking structures and other off-road applications. Model SD-600 has a 6-cubic-foot capacity with a 36-inch spread width, and Model SD-1400 has a 14-cubic-foot capacity with a 48-inch spread width. Both units include a polyethylene hopper and variable-speed auger feed system, which is run by a self-diagnosing digital controller. They offer a wide range of material application rates to help operators minimize material waste.

### SnowEx, Madison Heights, Mich.

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## Tilting pedestal system

The Tru-Level Tilting Pedestal System for the SC and HRM Series of aerial devices allows for operation on slopes up to 20 degrees to accommodate the need for "real world" truck positioning. This new system decreases stress on the rotation gearbox when the equipment operates on a slope. The system decreases setup time because it eliminates the need to "crib" the outriggers and does not limit boom operation



or load charts. The assembly keeps the work platform level longitudinally, so the operator can maintain balance with less fatigue.

### Terex, Watertown, S.D.

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## Snowplow lineup

Featuring a dual-trip design, the DXT models provide plow and vehicle impact protection in a multi-position plow. Choose from models that are 8 feet 2 inches or 9 feet 2 inches in poly, steel or stainless steel construction. The dual-trip design of the DXT provides plow protection when striking hidden obstacles. The base angle trips independently, reducing impacts when lower obstacles are hit. The full moldboard trip protects against taller obstructions of 6 inches or more.

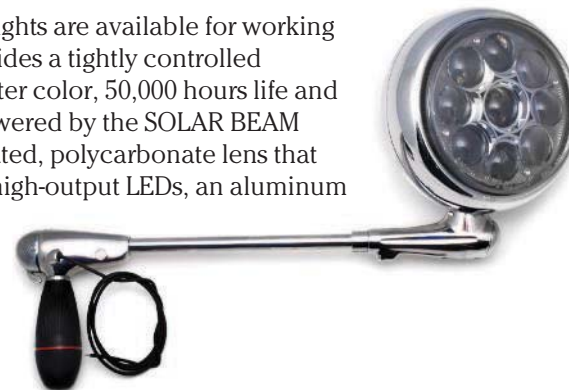


### The Boss Snowplow, Iron Mountain, Mich.

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## LED spotlights

The series 335 LED post-mount spotlights are available for working vehicles of all kinds. The product provides a tightly controlled 215,000 candlepower light output, whiter color, 50,000 hours life and an energy-saving 30-watt intensity. Powered by the SOLAR BEAM LED lamp, the lights feature a hard-coated, polycarbonate lens that resists breakage. The lights have nine high-output LEDs, an aluminum heat sink for cool operation and projector beam optics. The lights are ideal for illuminating work areas. They help vehicle operators locate street signs or broken power lines, and they are suited for traffic stops and surveillance.



### Unity Manufacturing, Chicago, Ill.

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# I'm an outdoorsman.

(So naturally, I ended up behind a desk.)

---

Sure, I'd rather be outside than stuck in an office. That's why I started working for our parks department in the first place. But since then, my job has changed a bit. I guess you could say that if my department were a machine,



I'd be the guy with the oilcan. Instead of sitting on a mower, now I'm buying them, making sure our parks stay a place folks can be proud of. So I have to make sure every machine is an investment that pays off. Like our Grasshopper mowers did. Seems like they do more in a day than our other machines do in a week. And we've cut our equipment inventory by using our mowers all year long to throw snow, aerate and pick up leaves. I haven't heard one complaint from my crews — except for our maintenance guy, who claims he doesn't have enough to keep him busy. Go figure. But, in the end, all that matters is our city parks have never looked better. And even though I'm a desk jockey now, I'm proud to have helped make it that way. After all, I'm an outdoorsman at heart.



Model 930D MaxTorque™ Diesel



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## SPECIAL COVERAGE ► PARKS & REC.

### Antibacterial hand dryer

Dryer eXtreme hand dryers with Cold Plasma Clean Technology incorporate bipolar ionization to dry and sterilize hands. Warm air from the dryer includes ions that split water molecules in the air into oppositely charged hydrogen and oxygen ions, which then break down gases into harmless

compounds found in the atmosphere. The technology, which passed independent testing by EMSL Labs, has been proven to kill bacteria including E. Coli, C. Diff, staph, MRSA and tuberculosis. These maintenance-free dryers require no filters or chemicals, and come equipped with universal voltage and adjustable sound and speed.



#### American Dryer, Livonia, Mich.

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### LED post-top luminaires

Contempo and American Revolution luminaires from American Electric Lighting are now available in LED models rated for more than 100,000 hours at a 25-degree Celsius ambient temperature. Both feature downward lumens to ensure the same performance as typical 150-watt high-pressure sodium models, and are available in six different



lumen packages and multiple distributions. Various optics, paint colors and color temperatures ranging from 3,000K to 5,000K are available. A standard surge protection device and optional solid-state lighting photocontrol help protect against electrical disturbances, including lightning. Both styles of luminaires are designed for illuminating streetscapes, walkways, pathways and parks; the American Revolution Series features a nostalgic design, while the Contempo Series is more modern.

#### American Electric Lighting, Granville, Ohio

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### Goose deterrent

The Sports Unit deters geese with a solar-powered light that is almost unnoticeable to humans but



disrupts goose sleep cycles, encouraging them to move on. Made of six pounds of steel, the Sports Cage protects the Sports Unit from theft or vandalism. Away with Geese products are available with a free property placement study and individualized product recommendation.

#### Away with Geese, Cincinnati, Ohio

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### Skid-steer loader

The compact Bobcat S650 skid-steer loader has several features to maximize uptime, including no-maintenance axle bearings, protected quick couplers and a keel-shaped undercarriage. The S650 has a 2,690-pound operating capacity and an 8,327-pound operating weight. The loader's vertical lift path allows it to achieve higher lifting capacity



and greater forward reach for loading over dump trucks. The S650 now has increased visibility in all directions, with a 14-percent larger rear window and 43-percent larger top window. The enhanced visibility is a big help when loading trucks.

#### Bobcat, West Fargo, N.D.

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### All-in-one hand washing station

The Advocate AV-Series Lavatory System provides a basin, soap, water-conserving faucet and dual-sided hand dryer in one unit. To wash hands with the Advocate, users intuitively move their hands from left to right, beginning with soap and ending with the dryer. The touch-free infrared sensor activated faucet is designed to reduce water usage by 24 percent versus manual faucets, while the infrared dryer can dry hands in less than 15 seconds. To make maintenance



efficient, the soap dispenser features a low-level indicator and overflow protection. Available in single-, two- or three-user models, the Advocate Lavatory System is ADA-compliant.

#### Bradley, Menomonee Falls, Wis.

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### LED luminaire

The CS Series suspended LED linear luminaire uses 40 to 50 percent less energy than comparable linear fluorescents, with up to 120 lumens per watt and a 75,000-hour lifetime. The CS Series' optical design integrates an upward-facing LED light strip with TrueWhite Technology and a lightweight upper reflector, featuring Cree MicroMixing Optics for precise optic control. The CS Series comes standard with 0- to 10-volt dimming control



and features a 7-year warranty; the estimated return on investment savings is 2.5 years. The fixture is suited for public areas in government facilities, schools, offices and warehouses.

#### Cree, Durham, N.C.

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### Remote-control grapple

The RigEm&Roll remote-control grapple, designed for tree maintenance, eliminates the need to go out on the limbs to set chokers. It attaches to the load line of a crane in less than a minute for safely grabbing large limbs.

The 100,000-psi steel grabber is independently powered by a 24-volt battery and hydraulic system. Hydraulics offer fast cycle times and integrated check valves to ensure the grapple jaws remain firmly closed until released. The

RigEm&Roll includes positioning spikes for rigging limbs ranging from horizontal, up to 70-degrees. The included remote control allows operation from up to 400 feet away through a direct line of sight. The grapple can pick up to 60 limbs that are up to 20 inches in diameter on a fully charged battery.



#### Diversified Products, Waco, Texas

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### Insect barrier for trees

The BugBarrier Tree Band is a pesticide- and pheromone-free adhesive band that protects trees from the damage caused by canker worms and gypsy moths. A dense, flexible fiber barrier is first installed to fill bark crevices, and then the adhesive film barrier is applied on top with the adhesive side facing the tree. Total installation takes fewer than five minutes. The bands can be left in place through the summer and early fall

**SPECIAL COVERAGE** **PARKS & REC.**



to catch adult female gypsy moths as they climb the tree to lay their eggs; caterpillars that hatch successfully will be caught when they climb back up the tree at dusk after sheltering in the shade. Once BugBarrier bands are full of insect carcasses (kept out of sight due to the band's design), they can be replaced with a new BugBarrier.

**Envirometrics Systems USA, Victor, N.Y.**

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**Enclosed utility trailer**

The Featherlite Model 1611 enclosed trailer is designed to haul a wide range of cargo, including ATVs, construction equipment, lawn mowers and tools. The bumper pull is available in 12- to 24-inch lengths with a width of 7 feet or 8 feet



and 6 inches. It includes a durable 3/4-inch wood floor, easy-access camper door, rear ramp for loading, LED lights and a dome light.

**Featherlite Trailers, Cresco, Iowa**

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**Modular high and low bay lighting**

The Albeo ABHX Series LED luminaire can replace 250- to 1,500-watt high intensity discharge fixtures and four- to eight-lamp T5/T8 high intensity fluorescent fixtures in high and low bay applications. Versus previous models, the ABHX Series features more lumens from fewer LED modules and can be paired with motion, daylight and wireless controls for increased energy



savings and less maintenance. The heat-sinking luminaires are available with cable/chain, rod or pendant mounts, 4000K (neutral white) or 5000K (cool white) color temperatures, a variety of diffusion settings and 0- to 10-volt dimming.

**GE Lighting, Cleveland, Ohio**

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**Propane zero-turn-radius mowers**

Two new propane-fueled models in Gravelly's Pro-Turn 400 line feature Kawasaki FX850V-LP engines and are available in 60- or 72-inch decks.



Producing less emissions versus conventional gas or diesel mowers, the new models include twin 33.5-pound propane tanks for longer run time. For increased operator comfort and productivity, the LP Series features an air-ride suspension seat, adjustable operator control arms, a rubber isolated foot platform and an adjustable foot pedal.

Semi-pneumatic front tires eliminate downtime from flats. Both mowers feature a 3-year warranty.

**Gravelly, Brillion, Wis.**

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**Seven-gang rotary mower**

The AR722T contour rotary mower, designed for maintaining sports and recreation fields, features a 65.2-horsepower Kubota diesel engine to cut grass quickly in uneven terrain without sacrificing performance. The AR722T includes SureTrac



parallel-cross-series traction and weight transfer systems that balance the mower's weight between the traction unit and decks for optimal traction in uneven terrain. For mulching, the mower includes TrimTek decks that feature a downdraft blade. A joystick-controlled hydraulic deck lift system allows the AR722T to mow with five, six or seven decks.

**Jacobsen, Charlotte, N.C.**

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**Lawn maintenance equipment**

John Deere recently donated to the National Park Service \$400,000 of equipment and attachments that will be used to restore and



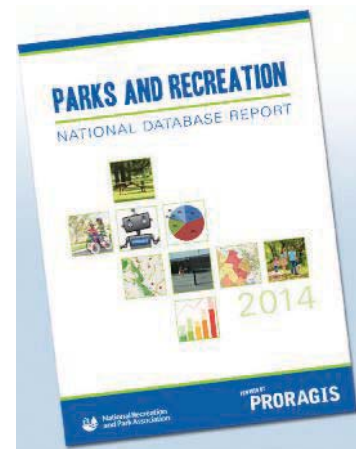
maintain the grounds of the National Mall. This equipment included the Z925M Flex Fuel zero-turn-radius mower that is compatible with gasoline or ethanol, and featuring semi-pneumatic, flat-free tires, 54- and 60-inch cutting widths and 1- to 5.5-inch cutting heights. Also included in the donation were a variety of other mowers (including the Terrain Cut 8800 rotary and 1565 front mowers) and utility vehicles (such as the TX TurfGator), a TC 125 materials collection system and the 1200A bunker rake.

**John Deere Ag and Turf Division, Cary, N.C.**

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**2014 NRPA Parks and Recreation National Database Report**

Now in its fifth year of data accumulation from park and recreation agencies nationwide, the National Recreation and Park Association's Park and Recreation Operating Ratio and Geographic Information System (PRORAGIS) database shows trend data on statistics such as budget, staffing, programming and facilities. The 2014 Parks and Recreation National Database Report notes trends in detail, such



as a reduction in offered martial arts programs, trips and tours, but considerable offerings of organized sports, fitness classes and environmental programs. To access the report, visit the digital issue of the January Parks & Recreation at [www.parksandrecreation.org](http://www.parksandrecreation.org). To learn more about PRORAGIS or to enter your agency's data, visit [www.nrpa.org/proragis](http://www.nrpa.org/proragis).

**NRPA, National Recreation and Park Association, Ashburn, Va.**

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**Propane mower incentive program**

The Propane Education and Research Council's Propane Mower Incentive Program will continue into 2014. Landscapers can receive \$1,000 toward the purchase of qualifying new propane mowers or \$500 toward eligible conversions of gasoline-powered mowers. Data collected through the program is used for new product development. For more information, visit [poweredbypropane.org](http://poweredbypropane.org).



**Propane Education and Research Council, Washington, D.C.**

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# SPECIAL COVERAGE ► PARKS & REC.

## Public use exercise equipment

The Energi Total Fitness System, recently installed in Veteran's Park in El Paso, Texas, improves user health and fitness by making exercise more appealing for people of all ages and abilities. The system is designed in accordance with the FITT principle (frequency, intensity, time and type), emphasizing individualization of fitness regimens to best meet each user's particular needs for maximum benefit without injury. Energi includes five stations with three different skill levels,



offering a total of 120 exercises. Users are guided through exercises with step-by-step instructions, facilitating a 15- to 60-minute workout routine. The Energi Total Fitness System features Microsoft Tag, which enables users with smart phones to watch videos from a certified personal trainer when learning how to do exercises on the system. The photo shows the Energi system in El Paso.

### Playworld Systems, Lewisburg, Pa.

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## Electric utility vehicle

The electric Polaris Gem eM1400 can be customized to fit a variety of indoor and outdoor work applications, including grounds maintenance, towing equipment and warehouse



work. The eM1400 features a 7-horsepower AC motor, 1,400-pound payload, independent rear suspension and front MacPherson strut. Capable of towing 1,250 pounds, the eM1400 can go up to 19 miles per hour and has a range of up to 45 miles per charge depending on temperature, grade, payload and driving style. Factory installed options include removable bed sides and a fully enclosed max box for cargo storage.

### Polaris Industries, Medina, Minn.

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## Playground components

Safeplay Systems' line of playground products is designed to meet specifications for nature-based accessible playgrounds that are being planned by the U.S. Army Corps of Engineers. Accessible



playgrounds meet ADA standards for use by all children, including those with physical disabilities. The new line consists of decks, multi-level climbing platforms, sorting tables, planters, storage boxes, entry and pass-through arbors, benches and signs. Complementing Safeplay's existing EcoPlay line, the new cedar-tone line is made of recycled HDPE plastic.

### Safeplay Systems, Marietta, Ga.

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## Outdoor LED lighting

This new line of decorative LED lighting fixtures and arm options for solar-powered outdoor commercial lights have been rated at 50,000 hours



(L70), are certified as Dark-Sky friendly and include dimming functionality. The fixtures can result in reduced maintenance and operational costs and environmental benefits. With designs reminiscent of the nineteenth and mid-twentieth centuries to match existing neighborhood aesthetics as needed, the lighting systems are made for easy installation. The solar-powered lights require no electrical grid connection or complex wiring, suiting them well for applications with no grid infrastructure or when disturbing existing paving, permanent structures or landscaping is impractical.

### Sol, Palm City, Fla.

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## Infield turf conditioner

Champion Brown is the latest color in Turface Athletics' line of infield conditioners.

Like other Pro League conditioners, the rich brown conditioner features small, uniform particles designed to ensure good fielding and sliding conditions and keep skinned infields safe. To manage moisture and thus keep surfaces playable, the conditioner absorbs its weight in water to prevent puddles. The absorbed moisture later releases to prevent a hard, cracked field once conditions dry up.



### Profile Products, Buffalo Grove, Ill.

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## Surface-mounted hand dryer

The ADA-compliant SLIMdri high-speed dryer is designed for increased accessibility and energy

efficiency. The universal voltage, surface-mount dryer features on/off heat controls to customize user comfort and energy savings. SLIMdri offers hands-free operation and includes



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SteriTouch technology to inhibit the growth and spread of bacteria, mold and fungus.

**World Dryer, Berkeley, Ill.**

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**Zero-turn stand-on mower**

Wright Manufacturing's Stander ZK Large Deck Mower features 52- and 61-inch deck widths, with engines up to 31 horsepower and mowing speeds up to 13.5 mph. With deeper deck widths, bigger wheels and greater fuel capacity, the ZK



simultaneously offers the benefits of Wright's traditional Stander, including low center of gravity for hillside stability, a short overall length for maneuverability and an operator step-off platform for debris pickup or in case of emergency. The mower's Rapid Height Adjustment feature allows operators to raise or lower cutting height without dismounting.

**Wright Manufacturing, Frederick, Md.**

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**Chemical dispensers**

The Professional Advantage+ system's portable configuration is made to reduce employee exposure to chemicals and offer sustainable chemical storage for customers seeking LEED certification. The dispenser installs with eight screws; it includes no tubes or metering tips to



set up. A color-coded, closed loop packaging design provides accurate dilution and reduces maintenance, dispensing a variety of chemicals ranging from general-purpose cleaners to industrial degreasers. Advantage+ is available as either a wall-mount or portable dispenser; the wall-mount design allows users to select chemicals with a turn of a dial. Both configurations feature a 2-liter bottle to reduce inventory space and streamline janitorial service.

**Zep, Atlanta, Ga.**

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**Water-saving polymer**

Solid Rain is a potassium-based granular powder that retains water and nutrients when introduced to soil or other media. With a chemical structure allowing each granule to expand and absorb up to 50 times its weight in water, Solid Rain allows the development of plantations during dry periods.



Once plants absorb water, the particles return to original size until more water is introduced, repeating the process over and over for up to 10 years. In addition to field crops in areas with little rain or water resource

availability, Solid Rain can be used to reduce water stress in transplanted trees and to retain moisture in hydroponic flower and vegetable crops. Solid Rain absorbs, stores and releases soluble fertilizer as well as water, and can be used to slowly release nutrients to plants.

**Agricore Distributing, Visalia, Calif.**

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**Rotary brooms**

SweepEx has introduced three walk-behind rotary brooms designed for both sweeping against walls or in open areas. Model SWB-320, the most compact in the line, offers a 32-inch working width with one-speed transmission. Models SWB-400 (40-inch working width, multiple brush speed) and 480 (48-inch working width, infinitely variable brush speed) feature a three-speed transmission with reverse, locking differential and variable down pressure. Brushes have five angle settings to control the windrow of debris and broom hoods constructed of durable, elastic material. The brooms offer intuitive



controls and seven-position handle height. Options include a debris collector box, leaf collector, protective cover and winter-tread wheel set. Several brush kits are also available for special applications, such as snow, tough dirt and sensitive surfaces.

**SweepEx, Madison Heights, Mich.**

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- Optional lean-to can serve many uses
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When you look at the whole picture, the decision is clear  
**The Hi-Arch Gambrel™**



# SPECIAL COVERAGE ► EMERGENCY MGT & RESP

## Flame-resistant utility glove

Many emergency maintenance professionals use the ActivArmr 46-111 glove because of its protection and precise control in tough environments. The glove provides high levels of dexterity and tactility for manipulating small parts and tools, but despite being thinner than most gloves, it provides ANSI Cut Level 4 protection. The glove is fully flame resistant: it will not melt, drip, shrink, or burn if exposed to a flash fire. Anti-static materials provide an additional level of safety, reducing the chance of static electricity igniting fumes or fuels.



### *Ansell, Iselin, N.J.*

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## Wireless mini-booster

The BSR 3308PSNFPA is a band-selective wireless mini-booster/bi-directional amplifier (BDA), designed to provide seamless in-building public safety coverage in mission-critical situations. The 700/800-megahertz digital off-air BDAs provide coverage in buildings of all sizes, inside tunnels and in remote communities. The product can



be used alone to provide coverage, or can feed into a distributed antenna system. The unit is predominantly software-based, so it is easily updated as needed via remote download, and is programmed to prevent oscillation.

### *Axell Wireless, Dallas, Texas*

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## Microwave radio

Horizon Radio is an advanced packet microwave radio used in critical communications in all areas of public safety including first responders, video surveillance, sensor networks, ports, utilities and border security. The radio is available in an



all-outdoor, split-mount or all-indoor configuration, delivering high availability backhaul, with redundancy options, as an alternative to or as a backup for fiber. The product supports native Ethernet as well as time-division multiplexing interfaces for legacy services. The unit is extremely secure with certified encryption, authentication and end-end network management.

### *DragonWave, Ottawa, Ontario*

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## Advanced search engine

EchoSec provides a way to access up-to-the-second data on a location for a heads-up view of an ongoing situation. By providing a way to search user-generated content streams like Twitter,



Foursquare, and Instagram, this search engine provides a dynamic, unfiltered real-time view of a situation. Relevance to the user is generated by filtering by location, with constant updates based on large communities of content creators.

### *EchoSec Systems, Seattle, Wash.*

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## Field data collection

Collector for ArcGIS is a configurable field data collection app for iOS and Android phones and tablets. Templates, selection results and directions can be viewed alongside the map on larger-screen mobile devices. The app allows the input of GIS



features of all primary shape types, and gives the ability to view and control GPS accuracy to allow streaming of positions. A continuous collect mode makes it possible to copy the location or attributes of the last collected feature.

### *Esri, Redlands, Calif.*

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## Emergency communications system

SmartMsg takes advantage of existing communications infrastructure with an open-system solution. It supports operational



continuity through a single-point interface that integrates communication software tools for voice, text and video. The systems applications provide solutions for mass alerting and notification, interoperable communications, incident scenario management multi-agency coordination and data sharing. Both emergency mass notification and live communications can be managed across multiple networks and channels, and multiple devices ranging from two-way VHF/UHF radios to smartphones.

### *Federal Signal, University Park, Ill.*

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## Insulated nitrile glove

Otterback Arctic Insulated Nitrile Fully Coated Gloves are designed to help keep hands warm and dry when working in cold, wet conditions. A thick, soft acrylic terry lining gives a cushiony feel, while the nitrile double dip, sandy finish black palm and fingers help protect from icy



conditions. The gloves offer excellent wet and dry grip. A single layer of tough nitrile coating over the back provides greater flexibility, while the gloves themselves have a 15-gauge nylon shell.

### *Galeton, Mansfield, Mass.*

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## Generator engines

The PowerTech E 13.5L Tier 3 and PowerTech 13.5L Tier 2 engines offer standby power for the 60-hertz market. The PowerTech E models feature higher output ratings and meet the key power nodes of 350- and 400-kilowatt-electrical standby power. The PowerTech models



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offer compact size with 500-kilowatt-electrical standby power. Both models feature a fixed-geometry turbocharger, electronic unit injector fuel system, four-valve cylinder head, air-to-air aftercooling and full-authority electronic controls.

**John Deere Power Systems, Waterloo, Iowa**

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**Overhead lifeline system**

The KeeLine overhead personal protection system mounts directly above the user for overhead applications. Use the system for vehicle loading, building cleaning and overhead crane access. The system is composed of a 5/16-inch-thick stainless steel wire and durable low-maintenance brackets with permanently installed wheeled travelers. The brackets can be installed on any suitable structure, including steel and concrete, and the line can be configured to allow spans of up to 78 feet between supports for use by one or two workers. Shock absorbers limit the potential end load to the structure, and self-retracting lifelines lock to minimize impact in the event of a fall.



**Kee Safety, Buffalo, N.Y.**

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**Secondary containment bladder**

The Pig Build-A-Berm Barrier Bladder Section is ideal for use in limited spaces where current containment areas cannot be expanded. The



product provides an additional 55 gallons of sump capacity to a secondary containment area. It remains out of the way, and only deploys when a spill occurs. The device helps facilities comply with hazardous waste secondary containment regulations. The product provides passive containment to aid in Spill Control and Countermeasure (SPCC) compliance (40 CFR 112.7).

**New Pig, Tipton, Pa.**

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**Communications platform**

Already in use at the Los Angeles International Airport, the PowerTrunk-T provides coverage, security and reliability through a terrestrial trunked radio (TETRA) platform. The system is completely Ethernet/IP based, which allows secure and reliable networks to be built with distributed switching and intelligence, as well as complete fault-tolerant redundancy. Costs are held down with the use of off-the-shelf equipment. Advanced capabilities include simultaneous voice and data, dynamic group call management, automatic vehicle location, telemetry and other transport-related data applications.



**PowerTrunk, Jersey City, N.J.**

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**Speaker microphone**

The Pryme Trooper speaker mic is ready for heavy-duty use in any environment, including fire, police, emergency response, municipal and more. It has an impact-resistant polycarbonate housing, fully-submersible/waterproof connectors, and rugged, military-grade cables that extend the product's lifespan under the toughest conditions. A spring-loaded metal-reinforced clothing clip that can rotate a full 360 degrees allows the mic to comfortably fit most uniforms, and its large push-to-talk switch can be easily activated while wearing gloves.



**Pryme, Brea, Calif.**

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**911-profile system**

Smart911 allows citizens to create a safety profile for their households that includes information



they want first responders to have in case of an emergency. Fire crews can arrive at a house fire knowing how many people live in the home and the location of bedrooms. EMS can be advised of allergies or specific medical conditions. Police can have the photo of a missing child in seconds rather than minutes or hours. Introduced in 2011, the system has already been adopted in 33 states and more than 450 municipalities.

**Rave Mobile Safety, Framingham, Mass.**

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**Rugged relay**

The Watchdog Relay is a rugged, hardware-based solution. It monitors and provides fail-safe shutdown of processes controlled by remote terminal units, programmable logic controllers and other automation devices in the event of a power surge, extreme weather event or other unexpected malfunction. The relay gives site operators the tool they need to protect unmanned process machinery around the clock.



**Red Lion Controls, York, Pa.**

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**Intelligent notifiers**

TruAlert ES devices are electronically supervised, and continuously report their status to a fire alarm control panel. They are inspection- and



web-enabled, and capable of generating reports for code compliance officials. When repair or maintenance is needed, a specific warning alert is provided, making it possible for troubleshooting and repair to be completed fast and efficiently. These features provide design flexibility and low costs of installation, operation and ownership.

**SimplexGrinnell, Addison, Ill.**

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### Video surveillance option

The ECO TOWER emergency phone now can be deployed with a video surveillance arm that fits a wide variety of fixed and pan-tilt-zoom video surveillance cameras. The cameras can communicate with the analog or VoIP emergency phones using the built-in auxiliary contacts. A PTZ camera can be moved to a preset location on events such as an emergency call placed or assistance summoned. Lightweight aluminum construction provides a reduced ecological footprint.

### Talkaphone, Niles, Ill.

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### Active-ride armored suspension

The Active Ride Control System (ARCS) replaces an armored vehicle's standard passive shock absorbers with an automatically controlled active damping system. It improves vehicle stability and ride comfort over a range of terrains and vehicle speeds. Much of the standard vehicle suspension system is retained, providing



optimized ride comfort and range of operation. Unlike traditional passive suspensions, the ARCS package provides excellent ride control under both high- and low-speed conditions. Handling characteristics are not compromised on rough or loose surfaces, improving vehicle safety under normal and emergency driving conditions.

### The Armored Group, Phoenix, Ariz.

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### Spare-tire fuel tank

The Spare-Tire Auxiliary Fuel System is designed to repurpose the space commonly used to stow a vehicle's spare tire, essentially doubling the fuel capacity of most pickups. Unlike in-bed auxiliary fuel tank solutions, the underbody location means



that this product has no impact on the truck bed's storage capacity. The lightweight, one-size-fits-all 30-pound tank is easy for one person to install and includes mounting hardware, a filler kit and an electronic fuel transfer control unit that can be operated from the comfort of the cab. The system has been engineered for fast installation, and all components come in a standardized package.

### Titan Fuel Tanks, Idaho Falls, Idaho

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### Tracking technology

The UPS Trackpad is a customizable solution used by governments and other organizations to monitor packages and information across the supply chain. It focuses on the big picture to resolve potential



issues before they arise. This is especially true for situations involving disaster relief and recovery, where managing critical inventory and the distribution of supplies are keys to survival. The technology was donated to The Salvation Army, and adapted for disaster relief supply

distribution. The product was used to aid those affected by the 2010 earthquake in Haiti. The technology was also used to track missing pets following Hurricane Katrina.

### UPS, Atlanta, Ga.

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### Rugged wearable Wi-Fi camera

The VIEVU2 is a rugged, wearable Wi-Fi camera that is ideal for law enforcement and government users to gather accurate information. The device can help offset frivolous lawsuits and claims. It

can be worn on a belt, lapel or pocket, and delivers on-the-go security with military-grade technology. It is rated for waterproof



operation and encased in an anodized aluminum case. Its

one-switch design allows quick activation, and an LED indicator displays the status of the camera.

### VIEVU, Seattle, Wash.

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# GREEN TECH

## Tunnel luminaires

TunnelPass LED luminaires from Holophane meet the demands of any tunnel or underpass environment. They boost lighting uniformity and color rendering index to improve visibility. The LED fixtures use up to 50 percent less energy than high-intensity discharge fixtures. They offer up to 100,000 hours of reliable operation. The fixtures combine a borosilicate prismatic glass refractor with an optimized thermal management system to extend fixture service life. A high-performance segmented reflector system offers three light distribution options: ceiling mount counterbeam, ceiling mount long and narrow and wall mount crossbeam. They meet IES RP22-11 requirements either as a retrofit or for new construction.



### Acuity Brands, Atlanta, Ga.

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## Automatic scrubber

The SC1500 REV stand-on automatic scrubber delivers up to 109 minutes of cleaning per tankful, for maximum cleaning productivity. The scrubber is available in a 20-inch REV or 20-inch disc model. Features include: a large 12-gallon tank capacity, low flow rate, up to 3.5



hours of battery runtime and fast operating speed. The scrubber features a OneTouch scrub on/off switch and intuitive dashboard controls. A low noise level and silent mode enable daytime cleaning and cleaning of noise-sensitive areas. The standard onboard EcoFlex System allows operators to switch effortlessly between chemical-free cleaning or to select from weak to strong cleaning intensities for sustainable cleaning.

### Advance, Plymouth, Minn.

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## Food handling work table

The sanitary Sortasaurus work table features a smooth, waterproof, plastic design that does not harbor bacterial growth. The table is easily cleaned without deterioration, decay or rust to support compliance with the Food Safety Modernization Act (FSMA). Ideal for installation in



facilities that produce or handle food for human consumption, the table is rotationally molded in one piece from 100 percent polyethylene. A three-sided, molded-in splashback helps secure food products on the table surface and promote a clean, clutter-free workstation. The table spans more than 8 feet in length with a working height of 30 inches. It is set atop 5-inch casters.

### Meese Orbitron Dunne Co., Ashtabula, Ohio

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## Fan reverser

The CoolMinder fan reverser for the John Deere Gator has brand-specific connectors that allow the user to unplug the radiator fan's existing connector and plug the CoolMinder in line. The fan is pre-programmed to automatically reverse the fan's direction for several seconds to blow out debris and dust buildup on the radiator. Then the program winds the fan down to a stop and reverses the fan to continue through its normal cooling cycle.



### ProManPTO, Vista, Calif.

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## Closed Loop Chemical Management

The Zep Professional Advantage+ chemical management system is available in a wall-mount or portable configuration. The system dispenses a variety of chemicals made by the manufacturer ranging from general-purpose cleaners to industrial degreasers as well as several environmentally



preferred Green Seal-certified formulations. The system reduces chemical exposure to employees, and it utilizes color-coded, closed-loop packaging. It also features TimeMist concentrated premier odor counteractant liquid fragrances.

### Zep, Atlanta, Ga.

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## Blowing wool insulation EPD

CertainTeed has issued a new Environmental Product Declaration (EPD) for its existing line of fiberglass blowing wool insulation. The new EPD covers unbonded loose-fill insulation products including InsulSafe SP, InsulSafe XC, True Comfort,



Ultra Comfort and OPTIMA, making CertainTeed one of the first insulation manufacturers to provide third-party verification of its fiberglass blowing wool from a life cycle perspective.

### CertainTeed, Valley Forge, Pa.

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## Engine filtration system

Puradyn's oil filtration system reduces the amount of oil waste generated by engines. It is used on large engines in a variety of industries, including construction, oil and gas, marine,



transit, and others. The filter removes solid impurities, down to below 1 micron in size, and liquid and gaseous contaminants, while replenishing necessary base additives. The system allows engines to run cleaner longer.

### Puradyn Filter Technologies, Boynton Beach, Fla.

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# MARKETPLACE

## BearCat armored tactical vehicle

Lenco Industries' BearCat G3 armored tactical vehicle is a four-door variant, that offers five entry and egress points on the vehicle. This feature enhances tactical response and rescue



capabilities in tight urban settings and active shooter scenarios where protected access to downed personnel is critical. The BearCat G3 features Lenco's Hydraulic RAM and a host of low profile lighting and communications equipment.

### Lenco Industries, Pittsfield, Mass.

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## Socket welding PREP tool

Asahi/America's new Peel, Remove, Edge and Plane (PREP) tool offers three-in-one convenience to quickly prepare a pipe before socket welding by removing the oxidation that occurs on polyolefin thermoplastics. Using the tool, the outside layer of the pipe is removed, the edge of the pipe is beveled



to ensure easy insertion into the socket fitting, and the face of the pipe is planed to straighten uneven cuts. The PREP tool is in accordance with DVS and ASTM Type B socket standards and is available in six sizes (1/2 inch through 2 inches).

### Asahi/America, Malden, Mass.

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## High-power professional chain saw

Echo's CS-620P rear handle chain saws feature digital ignition systems that automatically adjusts engine timing for optimum performance, a heavy-duty aluminum handle with rubber grip to reduce vibration in the hands, a tool-less air filter cover



for ease of service, and full chisel cutters. The CS-620P has 13 percent more power than the CS-600P, and includes a larger surface area for greater engine protection. The air filter separates for easy cleaning, and its built-in spit-back plate prevents absorption of fuel on filter material.

### Echo, Northbrook, Ill.

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## Temporary power cord

This 50-amp temporary power cord helps users bring back power as soon as possible in the event of an outage. The cord offers a straight-blade to a locking connector. The locking feature is enabled



by turning a collar. Once locked, the cord won't detach from a second cable or power distribution unit until the collar is twisted to its original position. It is available in four lengths: 15, 25, 36 and 50 feet.

### Conntek, Milwaukee, Wis.

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## IT security training suite

The anti-phishing training suite enables security officers to assess vulnerabilities via simulated phishing attacks. It provides in-depth education to change user behavior. The package gives corporate



security officers the ability to auto-enroll employees in follow-up training after they fall for a simulated attack. All training solutions utilize learning science principles to engage the user, deliver knowledge and ensure employees retain information taught in the 10-minute training sessions.

### Wombat Security Technologies, Pittsburgh, Pa.

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## Collapsible utility box

The collapsible utility box (C.U.B.) is available in both standard and custom sizes. It can be used and reused by shippers and producers of any product. It is ISPM-15-compliant, environmentally



C.U.B.

FCA

friendly and can nearly eliminate an organization's spend on product setup. The C.U.B. requires no tools, clips, fasteners or banding to assemble, and can be set up and taken down in seconds.

### FCA Packaging, Moline, Ill.

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## Universal scanner

The MACH12 production-level microfilm scanner relies on U.S. National Archives and Records Administration and Library of Congress preservation specifications as the gold standard. The MACH12 hosts a 12-bit camera with an output



range of 8-bit to 12-bit file output. It helps clarify small fonts and highly reduced images. The machine allows for high OCR accuracy. It is a useful tool for archivists and records managers.

### The Crowley Company, Frederick, Md.

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# GOVERNMENT NEWS

## Federal agency headquarters gets energy-saving lighting

by Government Product News staff

Cree, Inc., has outfitted the National Aeronautics and Space Administration (NASA) headquarters, a leased facility in Washington, D.C., with CR Series LED troffers. The LED installation is part of a renovation of the 600,000 square-foot building. More than 1,300 of the lighting fixtures have been installed.

Piedmont Office Realty Trust, owners of the NASA headquarters building, expects the new fixtures to deliver energy savings of 52 percent over the previously installed T8 fluorescent fixtures. An additional 5,200 Cree CR22 troffers are planned to complete the lighting upgrade.

"We originally considered replacing the existing T8 fluorescent tubes with T5 fluorescents, but after testing Cree's CR22 LED troffer, we knew it was the best solution for this installation," said Tony Roberts, senior chief engineer supporting Piedmont Office Realty Trust.

The new fixtures are designed to last for more than 50,000 hours, twice the lifetime of comparable linear fluorescents, according to the company. Installation of the Cree linear luminaires enabled a reduction in fixture count by 10 percent, as well as reduced maintenance and operational costs for the NASA headquarters. The new lighting system also supports the objective

to achieve LEED Silver certification for the facility.

The CR22 troffers feature integrated Lutron EcoSystem dimming technology and a Lutron Quantum lighting control system. The controls provide the flexibility needed to suit the



lighting to the occupant. The system can also extend the LED's lifetime.

Cree's product families include LED fixtures and bulbs, blue and green LED chips, high-brightness LEDs, lighting-class power LEDs, power-switching devices and RF devices. The company offers mercury-free LED lighting, lighting-class LEDs and semiconductor products for power and radio-frequency (RF) applications. The Cree website is <http://www.cree.com/>.

## New York county continues commitment to alternative fuels

by Government Product News staff

Monroe County, N.Y., has been a leader in using alternative fuels in county fleets since 1978. Fleet managers use ethanol blends, natural gas, biodiesel and propane autogas across the county's nearly 800-vehicle fleet. A federal grant prompted the county to add propane autogas Ford work trucks and E-series vans in 2008.

### A Green-Green Solution

The county estimates that it saves 50 percent on fuel costs with propane autogas when compared with gasoline, and the vehicles emit 60 percent fewer carbon monoxide emissions and 25 percent fewer greenhouse gas emissions. Melvin Rose, fleet manager at Monroe County, hopes to set an example for other municipalities looking to reduce fuel spend and dependency on foreign oil.

"When you go with an alternative fuel, there's always a cost involved," Rose says. "But with propane autogas, you get a cleaner and greener fleet, and get lower cost per mile. It just makes sense."

### Putting the Vehicles to the Test

The county uses its propane-autogas-fueled fleet on a variety of high-mileage, high-demand operations. The county's converted Ford F-350 pickup truck, two Ford F-250 trucks, and E-350 van put on as many as 15,000 miles a year. They pull heavy trailers and equipment, respond to heating and air conditioning calls and plow snow in the winter. One of the propane-autogas-fueled vehicles is used for field checks at the airport 24 hours a day, 365 days a year.

## How the FAA can test real-time disruptions at drone test sites

by Roei Ganzarski

The FAA will have its hands full as it begins rigorous testing of unmanned drones at six recently announced testing sites. These sites are faced with managing the dense system of drones among themselves as well as other aircraft in the flying environment. This setup will require extensive logistical planning and coordination between agencies.

The billion-dollar future of the drone industry relies on flying expensive "test subjects" around the sky to best prepare for safe integration into U.S. airspace.



This large task needs to have a structured, and yet rapidly adoptable and modifiable plan, to best utilize the time and resources involved in testing. When

managed testing is over, the need for a plan grows exponentially.

An "air space grid" is one way to manage this mandated drone testing. For safety, control and efficiency in the flight zone, researchers could create a grid in the sky — an intricate four-dimensional mesh of available and optional flight paths — for drones to fly through and test real-world scenarios. Researchers can then apply real-time dynamic optimization for drones to utilize the grid in a safe and efficient manner.

Additionally, test sites will need to survey the capabilities of drones in the real-world environment. Unpredictable disruptions like extreme weather impacts, unexpected aircraft in the grid and malfunctions must be addressed as these changes to the operating environment can create chaos in the sky. When disruptions arise, real-time adjustments will need to be made by unmanned aircraft, just like manned aircraft.

Leveraging Big Data that is already available to optimize operations in real time during testing and beyond is an effective way to avoid collisions and manage a constantly changing environment. This arrangement can also ensure that the drones are utilized to the best of their capabilities. Optimizing data can make responding to and adjusting drone usage in the real world possible. In addition, it gives the FAA a jump-start on a complex regulatory and operating program.

Roei Ganzarski is president and COO of Seattle-based BoldIQ.

Prior to joining BoldIQ, Ganzarski served as chief customer officer of Boeing's Flight Services division. He currently sits on the advisory boards of Zealyst and WTIA, and chairs the global business advisory board at the University of Washington Foster School of Business.

BoldIQ's software platforms enable real-time, optimal and actionable solutions for resource utilization, operations management, and disruption recovery, in complex business environments. The website of BoldIQ is <http://boldiq.com/>.



Melvin Rose, fleet manager for Monroe County, reports that the county's propane autogas refueling infrastructure was easy and quick to install.

"We don't treat the vehicle with any special handling because it's fueled with propane autogas," Rose explains. "I want these vehicles

to see severe treatment and really test them. You have to truly run these vehicles hard to get your data and see if this is going to be a proven fuel."

### Easy as Ready, Set, Go

The county has experienced limited downtime with the propane autogas vehicles and has since purchased and converted a total of 16 E-350 Econoline vans and Ford F-250 pickup trucks through another grant.

Compared with other alternative fuels in the county fleet, Rose reports that propane autogas has been the simplest and easiest to implement. For the price of installing just one compressed natural gas (CNG) station, a fleet manager can install up to 15 propane autogas refueling stations.

"[Implementing] the infrastructure with propane autogas was simpler and more cost effective," said Rose. "It's amazing how inexpensive it is to get up and running with propane autogas."

To learn more about propane autogas, visit the Propane Education & Research Council site. The website is at <http://www.autogasusa.org/>.



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# ▶ PARTING SHOTS

## Pothole patcher

The SP Series Spray Injector Pothole Patcher product family provides government agencies and contractors a cost-effective solution to the challenge of maximizing fleet usage. The equipment features a manually controlled boom that

allows agencies to use conventional or cab-forward fleet chassis, such as snowplow vehicles, to deploy the integrated system. The unit's design enables the boom operator to be positioned in front of the chassis for increased safety.

The industry-exclusive dual chamber (60/40) aggregate hopper allows the distribution of two different gradations of aggregate for efficient repair of deeper potholes.



### Bergkamp, Salina, Kan.

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# GPN

Government Product News

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#### Penton®

6190 POWERS FERRY ROAD, SUITE 320  
ATLANTA, GA 30339  
PHONE: 770-618-0112 FAX: 913-514-3887

**Bob MacArthur**  
Senior Vice President

**Gregg Herring**  
Group Publisher

**Bill Wolpin**  
Associate Publisher/Editorial Director  
[bill.wolpin@penton.com](mailto:bill.wolpin@penton.com); 770-618-0112

#### Business Staff

**Kim Blaski**, Production Manager  
**Sonja Trent**, Audience Marketing Manager

#### Advertising Sales

**David Gibson**  
Eastern Region Sales  
[dave.gibson@penton.com](mailto:dave.gibson@penton.com); 216-931-9469  
Fax: 913-514-6538

NY, NC, NJ, OH, MA, CT, Washington  
DC, VA, MD, VT, DE, ME, NH, RI,  
GA, NC, SC Canada (Eastern)

**Andy Vansciver**  
West/Midwest Region Sales  
[andy.vansciver@penton.com](mailto:andy.vansciver@penton.com); 805-469-7504  
IL, WI, PA, MN, WV, AK, AL, FL, MS, TN

**Ron Corey**  
Midwest Region Sales  
[ronald.corey@penton.com](mailto:ronald.corey@penton.com); 248-608-0994  
Fax: 913-514-6478  
MI, MO, IA, KY, IN, ND, SD, AR, LA, OK, TX

**Joanne Romanek**  
Sales Administrator  
[joanne.romanek@penton.com](mailto:joanne.romanek@penton.com); 913-981-6132

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## Explosion-proof air curtains

HL-Series air curtains have explosion-proof motors and spark-resistant fans, making them ideal for use in municipal utilities, ammunition depots, fleet garages



and commissaries, as well as in any storage building housing chemicals. The air curtains prevent doorway energy losses, restrict the infiltration or exfiltration of contaminants and fumes, and keep flying insects out. The equipment offers more cabinet lengths and motor selections than any other HL air curtain available, and can protect doorways from 6- to 20-feet high.

### Berner International, New Castle, Pa.

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## Pipe shredders

HOS Heavy-Duty Pipe Shredders efficiently reduce large, thick-walled plastic pipes to chips approximately 2.4- to 3.9-inches square. The shredders are available in five sizes, can process up to 3,400 pounds per hour and can handle pipes as large as 9.8 feet in diameter. A high-torque hydraulic ram holds the pipe horizontally against a cutting plate that slices off chips that are conveyed to a cutting mill for further size reduction. The grater-like design



slows blade wear and reduces energy and maintenance costs while producing little noise. The machines make even abrasive materials suitable candidates for shredding.

### Herbold Meckesheim USA, Smithfield, R.I.

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## Mechanical earth drill

MDL Mechanical Earth Drills offer safe and productive one-man hole digging with a 360-rpm operating speed. The compact design allows for access to areas unreachable by skid-steer-mounted augers, while producing cleaner holes at faster speeds. The small footprint can be used on delicate surfaces, like golf course greens and lawns, and the steel torque tube prevents dangerous kickback. The equipment is ideal for fence and sign installation,



landscaping, and parks and recreation departments. Four models are available with a choice of Briggs and Stratton or Honda engines at 5.5 or 8 horsepower.

### Little Beaver, Livingston, Texas

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## LED recessed lighting

Finiré fixtures come standard with dimming drivers, solving the ongoing compatibility issue between LED modules and their controls. The fixtures include an industry-best 95+ Color Rendering Index and compatibility with Lutron controls, while delivering 1,000 lumens from a 6.4-inch-high airtight housing. The compact housing is possible due to a more efficient heat sink and cooler LED modules. The unit can provide spot lighting or a 20- to 50-degree spread for flexible field-changeable



lighting for any application. All fixtures provide flicker-free dimming from 100- to 1-percent power.

### Lutron, Coopersburg, Pa.

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## ESD-safe wire cutter

Model 9200ASF Micro-Shear flush cutter is ESD-safe and has a tapered head for reaching into tight spaces on PCBs. It includes a lead retainer to prevent flying leads, and is equipped with static-dissipative, ergonomic hand grips. The precision cutter is



made from highly alloyed steel and uses bypass shear action to produce clean, square cuts without spikes.

The cutter is designed for both assembly and repair applications, and conforms to ANSI/ESD.S20.20 and DOD-HDBK-263 specifications.

### Xuron, Saco, Maine

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## Real estate management setup

Yardi Voyager for Government provides a comprehensive set of financial, accounting and management tools for government users. The system automates all real estate processes with role-based dashboards; workflows; property, tenant and lease details; critical date notifications and analytics.



The platform also combines financial, department and fund accounting with budgets, forecasts, construction and maintenance to present a holistic view for internal and external stakeholders.

### Yardi Systems, Santa Barbara, Calif.

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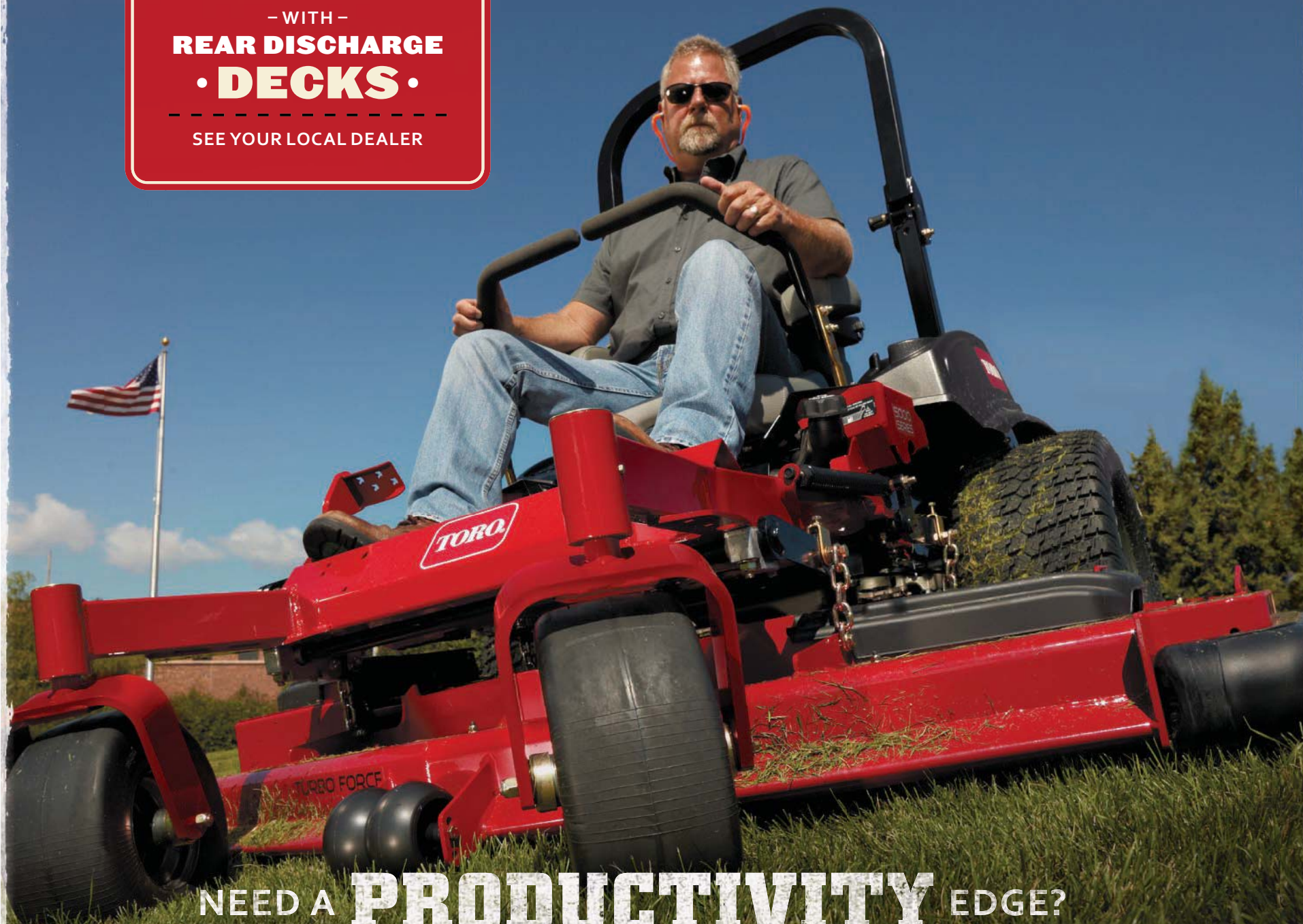
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Circle 8

## TWO-POST LIFTS

7,000 through 30,000 lb. capacity two-post lifts. Shown: Model TP-16



## HUNTER Engineering Company

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Circle 12

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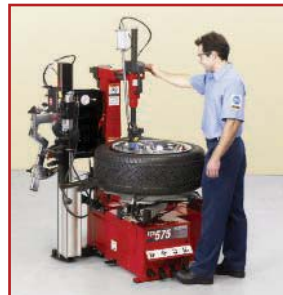
### WHEEL BALANCERS



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Balancers with ForceMatch® capability for passenger cars to heavy-duty trucks. Wheel lift models available.

### TIRE CHANGERS



Circle 14

Tabletop, leverless, Euro-style, heavy-duty truck and heavy equipment models to fit every service need.

### BRAKE LATHES



Circle 15

On-vehicle or bench lathes for up to medium-duty trucks. Industry-leading ServoDrive™, anti-chatter technology, computerized compensation and reverse-drive features.

## TR SERIES RAMP STYLE LIFTS

19,000 through 120,000 lb. capacity models give complete under vehicle access for trucks & buses. Shown: Model TR-75



Circle 9

## MOBILE LIFTS

Mohawk MP-series electric /hydraulic mobile lifts available in 4, 6, or 8 post configurations. Shown: Model MP-18



Circle 10



## PARALLELOGRAM LIFTS

36,000 through 100,000 lb. lifting capacity with track lengths from 26 to 48 ft. long. Shown: Model 75-35-S



Circle 11



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