

Leica ScanStation P50

The Leica ScanStation P50 delivers high-quality three-dimensional (3-D) data and high-dynamic range (HDR) imaging at a fast scan rate of 1 million points/s at ranges of more than 1 km (0.6 mile). This rugged and versatile laser scanner has unsurpassed range and angular accuracy paired with low-range noise and survey-grade dual-axis compensation. It can be used to scan mine pits, long bridges, dams, and skyscrapers. In addition, users can scan tall and wide infrastructure or dangerous sites from a remote and safe position.

—Leica Geosystems AG,
www.leica-geosystems.com



Mortar Net Solutions Custom Cut Drip Edges

Mortar Net Solutions™ custom cut metal drip edges are cut specifically for masonry cavity wall projects and provide a continuous drip edge around complicated details. The edges are shop-cut and arrive at the jobsite precut to fit specific detail profiles. Installers bend them around the details' inside and outside corners in one continuous section. The drip edges are specially cut to prevent kinking and create smooth inside and outside corners with no gaps. Available in stainless steel, cold-rolled copper, and Kynar®-coated galvanized steel, the edges are supplied in pieces up to 10 ft (3 m) in length. Each length may be cut to fit up to 20 corners in angles between 22 and 320 degrees.

—Mortar Net Solutions, <http://mortarnet.com>

Geotab and Welltrax

Welltrax by Vertrax, transportation management for bulk transportation of gravel, sand, and other bulk commodities, is available on the Geotab Marketplace. This fleet management solution increases efficiencies through customized pick-up and drop-off forms, real-time load management (building and dispatching loads), and asset tracking (monitoring a driver's progress with an assigned load). Full-featured integration into the Geotab Drive mobile app allows the dispatcher to see progress at the driver level while Welltrax highlights any potential hours of service violations before they occur.

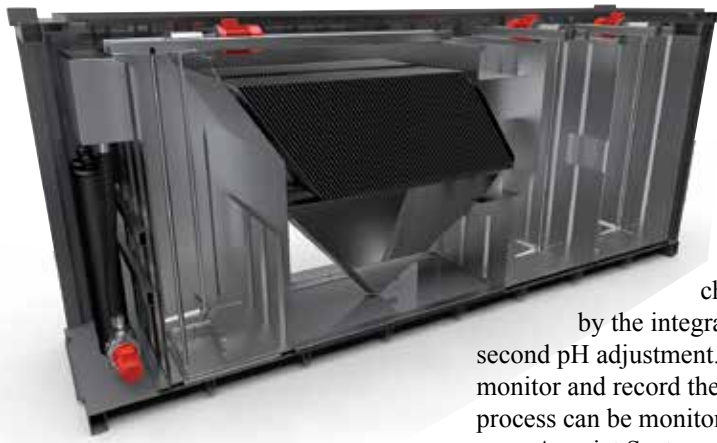
—Geotab, www.geotab.com
—Welltrax, www.vertrax.com

Aquajet EcoClear

Aquajet Systems AB's EcoClear® treats water expelled from an Aqua Cutter at a flow rate of about 5283 gal. (20 m³) per hour. After passing through treatment chambers, the water is conditioned to a pH of 6 to 9 and a turbidity to 20 to 25 mg particles/L. A flocculating agent is added at the inlet chamber to help clump the particles in the water. The water then flows into a second chamber that introduces carbon dioxide to neutralize the pH. In the next chamber, the floc settles into a storage hopper and is removed

by the integrated pump. The water continues to another chamber for a second pH adjustment. Optical turbidity sensors and pH probes continuously monitor and record the water quality to ensure only clean water is discharged. The process can be monitored and controlled online with the RECO control system.

—Aquajet Systems AB, www.aquajet.se





Blastcrete MX-20MT Mixer/Pump

Blastcrete Equipment Company's MX-20MT mixer/pump provides twice the output of the company's MX-10 mixer/pump but has nearly the same compact footprint. The MX-20MT features a 1 tonne (1.1 ton) mixer with a high-speed hydraulic agitator that keeps materials blended and in suspension as the resulting mixture flows to the 4 in. (102 mm) swing-tube piston pump. The pump operates with up to 15 MPa (2200 psi) pumping pressure for consistent delivery of up to 20 tonnes (22 tons) of material per hour. Customers can load the hopper with as much as 1100 kg (2500 lb) of material. The machine is mounted to a single-chassis trailer for fast and easy transportation, setup, and cleaning.

—Blastcrete Equipment Company, www.blastcrete.com

Cat S41 and S60 Rugged Phones

Cat phones are designed for use on construction sites. The phones are drop tested onto concrete from up to 1.8 m (6 ft) and have Corning® Gorilla® Glass screens equipped with technology that works even when the user is wearing gloves or has a wet finger. The phones' scratch-resistant and ultra-bright screens allow readability in direct sunlight, and their high-quality audio systems can be heard in noisy environments. Cat phones are made to operate in extreme cold and hot temperatures, ranging from -25 to 55°C (-13 to 131°F), depending on the device. The smartphones are IP68 certified, ensuring high protection against water. The S60 features a Lockdown Switch that enables the device to survive submersion to depths of up to 5 m (16 ft) for 60 minutes. The Cat S41's Battery Share can power other devices and accessories. The Cat S60 is equipped with a FLIR™ camera, and it can measure temperatures from -20 to 120°C (-4 to 248°F) at distances up to 30 m (100 ft).

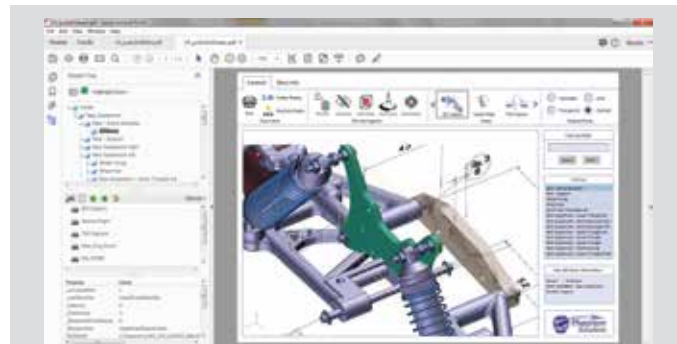
—Caterpillar Inc., www.cat.com

Gear Keeper Super Coil Tool Tethers

Gear Keeper's ergonomically constructed Super Coil™ tool tethers are manufactured with a low-force polyurethane elastic core coupled with strong webbing. The tether can be extended to 109 in. (2770 mm) and will gently retract to 42 in. (1070 mm). Designed for tools weighing up to 25 lb (11 kg), Gear Keeper's manufacturing process minimizes "extension" arm fatigue but also minimizes entanglement issues when climbing or working in confined areas. Super Coil tethers include a lanyard cord that is sewn lengthwise into the webbing to avoid damaging the cord, ensuring longer durability and strength.



—Hammerhead Industries, www.gearkeeper.com



Theorem's Publish 3D

Theorem Solutions released its updated Publish 3D suite of products, which offer 3D PDF publishing for users that design with 3DEXPERIENCE, CATIA V5, Creo, or NX, or who want to extend the use of their JT data to create interactive 3D PDF documentation. The latest release enables data to be output in HTML5. The Publish 3D suite is powered by Adobe's native 3D PDF publishing technology toolkit, which is also used in Adobe Acrobat and Adobe Reader. Users can work directly within a CAD design session or in standalone mode. The 3D PDF publisher supports the creation of documentation into the 3D PDF format, combining 3D design data representations with full product manufacturing information. Passwords can be set on the documents so that only certain people can access the data. The use of 3D PDF allows anybody with access to Adobe Reader to consume, view, and mark up 3D data.

—Theorem Solutions, www.theorem.com

Web Notes

Supervisors' Safety Development Program

The National Safety Council Supervisors' Safety Development Program is an adaptive e-learning program that comprises 16 modules in a self-service format. The modules are titled: Safety Management, Communication, Safety & Health Training, Employee Involvement, Safety & Health Inspections, Incident Investigation, Industrial Hygiene, Personal Protective Equipment, Ergonomics, Hazard Communication, Regulatory Issues, Machine Safeguarding, Hand Tool & Portable Power Tools, Materials Handling & Storage, Electrical Safety, and Fire Safety. The program's adaptive engine measures how much a student knows at various points in the training, and it assesses the student's confidence in his or her answers. From there, the program generates an individualized learning path that encourages competency and saves time.

—National Safety Council, www.nsc.org

Book Notes

PCI Design Handbook: Precast and Prestressed Concrete, Eighth Edition

The PCI Design Handbook: Precast and Prestressed Concrete, eighth edition, includes updated or new design procedures, numerical examples, and design aids. This edition also includes information on dapped-end bearing design, beam ledge design, and the impacts of ACI 318-14. New appendixes are also included, covering disproportionate collapse, blast design, and diaphragm design for seismic effects.

—Precast/Prestressed Concrete Institute, www.pci.org



Products & Service Literature & Videos

CP Tech Center Resources on Internal Curing of Concrete

The National Concrete Pavement Technology Center (CP Tech Center) at Iowa State University published new resources on internal curing (IC) for concrete pavements. Funding for the work came from the Federal Highway Administration, the Iowa Highway Research Board, and the Iowa Department of Transportation. The documents can be downloaded using the following links:

- “Guide Specifications for Internally Curing Concrete,” www.intrans.iastate.edu/research/documents/research-reports/IC_guide_spec_w_cvr.pdf;
- “Impacts of Internal Curing on the Performance of Concrete Materials in the Laboratory and the Field,” www.intrans.iastate.edu/research/documents/research-reports/impacts_of_IC_on_contraction_joint_spacing_w_cvr.pdf; and
- “Lifecycle Cost Analysis of Internally Cured Jointed Plain Concrete Pavement,” www.intrans.iastate.edu/research/documents/research-reports/lifecycle_cost_analysis_of_IC_JPCP_w_cvr.pdf.

—CP Tech Center, www.cptechcenter.org