

Products & Practice

KEEN Utility Reno

KEEN Utility's Reno is a lightweight work boot steeped in outdoor tradition but designed for the demands of the modern jobsite. This versatile boot features KEEN.BELLOWS FLEX technology, an ergonomically engineered system designed to offer multidirectional flexion, making bending, squatting, kneeling, and knee-down work easier. The Reno also features a KEEN.ReGEN midsole that returns 50% more energy, a KEEN.KonnectFit heel capture system to lock the heel down for sure-footed stability, and an ankle-height engineered mesh upper and KEEN.DRY waterproof, breathable membrane to provide dependable indoor and outdoor performance. In addition, the Reno offers asymmetrical carbon-fiber toes and an oil-and-slip-resistant rubber outsole to provide dependable footing. Built for the industrial athlete, the Reno is available for both men and women in several colorways and collar heights.

—KEEN Utility, www.keenfootwear.com



Concrete Calculator with SI Unit Support

ConcreteNetwork.com, a provider of concrete information and resources, announced the relaunch of its popular concrete calculator with the added ability to calculate in SI units. The calculator provides an easy-to-use tool for contractors and homeowners to quickly and accurately determine the amount of concrete needed for any project, now in both U.S. customary and SI units.

The free concrete calculator is based on the latest industry standards and guidelines.

The concrete calculator is available 24/7 and is accessible from any device with internet access. It is easy to use and requires no special software or technical knowledge. Simply enter the required information, and the calculator will provide an instant estimate of the amount of concrete needed for your project, in either cubic yards, cubic meters, or the number of bags.

—ConcreteNetwork.com, www.concretenetwork.com

Honda EU3200i

Honda Power Sports & Products launched Honda EU3200i, the newest generator in the Honda Super Quiet EU Series lineup. The high-output Honda EU3200i delivers more power than the previous iteration, and it comes in a compact, space-saving, portable package. The Honda EU3200i offers a range of conveniences: quick and easy two-step starting, remote smartphone monitoring and control, exceptional fuel efficiency, long run times, and simplified maintenance. The Honda EU3200i combines the best features of Honda generators within a compact package.

—Honda, www.honda.com



All-Titanium Framing Square

Martinez Tool Co. launched its redesigned 16 x 24 in. (406 x 610 mm) All-Titanium Framing Square. The new titanium framing square incorporates grade five titanium, intricate scribe markings at 1/8 in. (3 mm) increments, deep laser engraved measurement markings, precision-etched stair gauge settings for scribe marks, and an engraved conversion table with fractional inches, decimal inches, and mm measurements. These large titanium framing squares come with and without scribe marks. They are built to withstand the demands of the construction professional and meet the measurement needs of the manufacturing industry.

—Martinez Tool Co., www.martineztools.com



Products & Practice

Frumecar RealScale

The Frumecar RealScale is a control tool incorporated in Frumecar's concrete plants. The tool detects failures in load cells and alerts the plant operator to avoid incorrect dosages during concrete production, helping to prevent inconsistent mixture proportions. RealScale consists of Frumecar software that works in coordination with Siemens hardware, continuously monitoring the system from the K2 plant automation system, ensuring in real time that the batch weights are correct.

—Frumecar, www.frumecar.com



IronOrbit Gold INFINITY Workspaces

IronOrbit Gold INFINITY Workspaces use cloud-based NVIDIA-powered graphics processing unit (GPU) technology, making it an option for architecture, engineering, and construction (AEC) professionals using graphics-intensive applications. Cloud-hosted applications, including Windows 365 apps, compute-intensive design software programs, and project management solutions, are accessed via virtual desktops using tablets and other mobile devices. Cloud services and hosted desktop solutions are provided through a global footprint of private data centers distributed among 20 regions worldwide to minimize latency. AEC teams can experience high levels of efficiency throughout their design and project management processes, from any location and at any time. IronOrbit's GPU-Accelerated workspaces are always available and backed by 24/7/365 U.S.-based support. Systems are scalable and modular, allowing teams to quickly add or subtract users as needed. And users' software solutions and project datasets are securely stored in the cloud, accessible only to authorized users.

—IronOrbit, www.ironorbit.com

Slabsure Foundation Monitor

Slabsure foundation monitors are attached to foundations to capture and record vertical movements. The sensors are spaced 10 ft (3 m) apart, and the data is sent over a global cellular network to provide owners an instant status update with a private login. When a foundation has moved beyond the norm, the Slabsure app will post a yellow flag. Slabsure is designed to help grow the revenue of foundation repair and service companies with a differentiating technology.

—Slabsure, www.slabsure.com



Upcoming Ci Themes

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Web Notes

PCA Microsite Showcases Crucial Early Progress in Realizing Carbon Neutrality

Through its Roadmap to Carbon Neutrality, members of the Portland Cement Association (PCA)—which represents the majority of U.S. cement producers—have committed to greater sustainability and are developing methods to reduce emissions while continuing to deliver outstanding products. These efforts are being tracked on **CementProgress.com**, a new microsite highlighting the industry’s advancements.

From powering kilns using pistachios to sending streams of captured carbon through algae bioreactors, U.S. cement manufacturers are finding innovative ways to reduce the release of carbon dioxide and continue to push the envelope on production efficiency. Often cited as one of the hardest but most important sectors to decarbonize, CementProgress.com showcases how the cement industry is making its carbon neutrality ambitions a reality.

PCA’s Roadmap to Carbon Neutrality offers a pathway to cut emissions across the entire cement-concrete-construction value chain. The cement sector innovations and advancements shown in CementProgress.com offer proof of concept that the Roadmap is effective and galvanizes a coordinated, collaborative response across the entire value chain.

—Portland Cement Association, www.cement.org

Brokk Launches My Brokk, a New Online Service Platform

Brokk, a manufacturer of remote-controlled demolition robots, announced My Brokk, a comprehensive online support platform that offers multiple services in a single resource. The My Brokk portal offers a library of manuals and other technical documents along with a Webshop for ordering parts and attachments. Users also have access to Brokk Connect, Brokk’s robot and fleet management system. Using My Brokk, Brokk customers can access essential services any time of day from any device or location.



Through My Brokk, Brokk owners have online access to equipment manuals, technical data, CE markings, and diagrams. The information is available through My Brokk’s Documents module, allowing a customer to find and download accurate, up-to-date materials. The documentation is available for all current Brokk models and attachments, as well as older models.

—Brokk, www.brokk.com

Products & Service Literature & Videos

Fire Protection Handbook (21st Edition) by The National Fire Protection Association

The *Fire Protection Handbook* is a comprehensive reference guide of fire and life safety prevention and protection information for students and professionals across a wide range of industries worldwide.

Through 21 editions and its 126 years of impact on safety, the National Fire Protection Association (NFPA) has regularly updated the Handbook’s contents according to industry trends, the latest training methods, case studies, and code requirements at the time of publication. The new edition reflects the latest fire protection and fire safety information, research and data, emerging technologies, and safety practices, and forms the required body of knowledge for candidates pursuing the NFPA Certified Fire Protection Specialist (CFPS) exam, widely recognized as the gold standard in certification for fire protection professionals to demonstrate their proficiency in fire safety, protection, prevention, and suppression technologies.

—National Fire Protection Association, www.nfpa.org

Product Showcase

Repair Materials & Tools

Rhino Repair Products

Rhino Carbon Fiber™ carbon fiber-reinforced polymer (CFRP) can be used in a variety of residential and commercial applications for concrete crack repair and structural strengthening. It's lightweight, easy to install, strong, and noncorrosive. It can be easily painted over or covered with a finishing product for aesthetic appeal.

Rhino additionally offers polyurethane foam and epoxy resin for injecting cracks. Wet or dry cracks can be filled with polyurethane foam that expands to 15 times its initial volume, while dry cracks can be filled with epoxy resin that cures stronger than concrete. Cracks can be injected if they are between 1/16 and 1/8 in. (1.5 and 3 mm) wide. Larger cracks must be sealed with high-strength anchoring epoxy paste before being strengthened with CFRP.

—Rhino Carbon Fiber, www.rhinocarbonfiber.com



MasterEmaco OneMix

Master Builders Solutions' customizable, environmentally friendly concrete repair system is designed to increase versatility, efficiency, and ease of use on jobsites—without requiring separate, dedicated products to serve each need.

The MasterEmaco® OneMix™ Concrete Repair System consists of one bag of universal base material that can be used as horizontal, vertical, and overhead repair mortar by adjusting the water content in the batch. Alternatively, the base material can be combined with various proportions of six specialized Power Paks™ to create up to 120 different repair products.

The MasterEmaco OneMix system is simple and intuitive to apply, and the small Power Paks containers enable enhanced quality assurance, reduce jobsite complexity, and minimize storage requirements.

—Master Builders Solutions, www.master-builders-solutions.com



BridgeDECK Systems

BridgeDECK® Systems is a bio-based dampproofing product, specifically designed for Department of Transportation applications on bridges. BridgeDECK Waterproofing Agent employs a sodium silicate formula that is enzymatically modified to chemically bond with concrete. The formula penetrates into the concrete and reacts with the calcium and water contained within to form a calcium silicate gel complex that fills the cracks, pores, and capillaries, creating a long-term barrier to liquid water infiltration yet allowing water vapor transmission. BridgeDECK Systems can be applied either by highway maintenance crews or waterproofing contractors to quickly preserve structures and return to service.

—Alchemco, www.alchemco.com



PROFACTOR 18V SDS-max Rotary Hammer

Bosch Power Tools introduced the PROFACTOR 18V SDS-max® 1 to 5/8 in. (25 to 16 mm) Rotary Hammer (GBH18V-40C). Engineered to break concrete, the rotary hammer offers superior performance for tough concrete work. Powered by the CORE18V 8 Ah or 12 Ah batteries, this hammer outperforms its corded counterpart, the Bosch 11264EVS. With features like kickback control and an anti-vibration system, the hammer also offers workers confidence and improved comfort.

—Bosch, www.bosch.us



Aquajet Trio

Aquajet offers a dynamic trio of hydrodemolition machines that can be used for road and bridge repair applications: the Aqua Cutter 710V hydrodemolition robot, Ecosilence 3.0 high-pressure pump system, and EcoClear water treatment system. Together, the machines provide contractors with the safety and productivity of robotic hydrodemolition with the added benefit of on-site, on-demand wastewater treatment—all in a compact footprint that meets strict environmental regulations while providing maximum versatility for congested jobsites.

Powered by the Ecosilence 3.0 Power Pack, the 710V easily removes loose, deteriorated concrete or removes sound concrete to a pre-determined depth. Aquajet's Ecosilence 3.0 consists of a 20 ft (6 m) container that houses the engine and pump, offering reduced noise and a cost-effective equipment transportation option, as well as secure storage for the robot and accessories when not in operation. With the EcoClear, contractors can leverage cutting-edge technology to meet even the strictest environmental standards. The system, contained in a compact, 20 ft container, lets contractors treat and reuse water when needed or safely release it back into the environment.

—Aquajet, www.aquajet.se



Titan Structural Reinforcement

Emecole Metro announced the launch of Titan Structural Reinforcement, a carbon fiber strengthening system for bowed and cracked concrete walls.

Cost-effective and installer-friendly, Titan Structural Reinforcement Carbon Fiber is made from thousands of parallel fiber strands tightly woven into a fiber strap. It comes packaged in precut rolls that easily separate into individual carbon fiber straps sized at 8 ft (2.4 m) long and 6 in. (152 mm) wide. When saturated with high-performance epoxies, Titan Structural Reinforcement Carbon Fiber permanently bonds to concrete to provide a stretch-resistant top-to-bottom repair that will not allow movement to the wall or cracks.

Whether already experienced with structural repairs or looking to grow your business by expanding service capabilities, Titan Structural Reinforcement Carbon Fiber makes for a viable addition to any basement waterproofing, home remodeling, or building construction business.

—Emecole Metro LLC, www.emecole.com



MCI-2040

Cortec® Corporation's MCI-2040 High Performance Vertical/Overhead Repair Mortar is a component of Cortec's High Performance Repair System (HPRS®). MCI-2040 helps concrete repairs last longer by inhibiting corrosion and reducing the risk of the ring-anode effect. This single-component, fast-setting, high-strength, cement-based repair mortar is enhanced with migrating corrosion inhibitors (MCIs). MCI-2040 offers corrosion protection to reinforcing metals both in the patch and in the surrounding areas. It penetrates the substrate and evens out corrosion potentials between patched areas and nearby concrete, thereby slowing the ring-anode/halo effect. Once applied and hardened, MCI-2040 provides a high level of adhesion and durability, as well as resistance to water and carbonation attacks. This increases the quality and extends the service life of the repair and surrounding structure.

—Cortec Corporation, www.cortecmci.com



Product Showcase

RCT Chloride System

This test system is used to precisely and quickly measure the chloride content in concrete. This on-site testing system provides the same accuracy as laboratory testing. Results can be used for evaluation-estimation of concrete service life, for establishing the required depth of removal of a chloride ion contaminated surface layer, for diagnosing a structure for corrosion activity, and for monitoring the chloride ion content during the removal of chlorides.

A powder sample of hardened concrete is obtained by drilling or grinding the cover concrete in the structure. The sample is mixed with a specific amount of extraction liquid and agitated for 5 minutes. The extraction liquid is designed to remove measurement-disturbing materials, such as sulfide ions, and to extract the chloride ions in the sample. A calibrated electrode is submerged into the solution to determine the amount of chloride ion, which is expressed as percentage of concrete mass.

—Germann Instruments, www.germanninstruments.com



TE 70-ATC/AVR

Hilti North America, a provider of tools, technology, software, and services to the commercial construction industry, expanded its rotary and combination hammer tool portfolio with the next generation TE 70-ATC/AVR. The new and improved tool will help commercial contractors and tradespeople drill up to 40% faster in reinforced concrete and demolish more concrete.

Understanding the importance of worker safety on a construction jobsite, the SDS-Max combination hammer includes Hilti's exclusive active torque control (ATC) technology, which stops the tool body from spinning uncontrollably if the drill bit jams. The tool is also equipped with Hilti's active vibration reduction (AVR) technology, with counterweights that oscillate to counteract vibration plus a decoupled handle that limits the vibration that reaches the operator's hands.

—Hilti, www.hilti.com



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