

Sprint is First U.S. Wireless Carrier for Cat® S48c Smartphone

Bullitt Mobile Ltd. has launched the Cat® S48c rugged smartphone, and Sprint will be the first U.S. carrier to support the device. The Cat S48c is designed and built with durability at its core. It is capable of withstanding drops, dust, vibration, and even extreme temperatures; and it comes with a screen protection guarantee. The phone can be submerged in up to 4 ft (1.2 m) of water for 35 minutes, while its 13 MP camera can take underwater pictures. The Cat S48c has a dedicated, programmable key located on the side of the phone that pairs with Sprint Direct Connect Plus™ for push-to-talk communications. The phone's 4000 mAh battery provides up to 30 hours 3G talk time. Its 5 in. (127 mm) full-high-definition touchscreen is protected with Corning® Gorilla® Glass 5 and can be used with gloves or wet hands. The Cat S48c memory is expandable to 128GB via a microSD™ card.

—Bullitt Mobile Ltd., www.catphones.com



BatchTron Control Systems

The BatchTron series of batch control automation systems can run a plant at the highest possible speed. Durable programmable logic controllers and touch screens help prevent costly downtime. BatchTron control systems are adaptable to all types of batch-based or continuous processes where solid and liquid ingredients need to be batched and mixed in a timed sequence. Concrete is the main application. Handling up to six aggregates, three cements, two waters, six admixtures, and two to three scales in “standard” plant configurations, the BatchTron I is capable of controlling most concrete batching plants or small central mix plants for precast, block, and paver production with delivery to a single station. BatchTron II and III feature larger color screens. Other Scale-Tron manufactured products include the SiloWeigh vessel inventory system, the CraneWeigh load measurement system for precast plants, Moisture Sensors for sand bins and mixers, and the High-Pressure Mixer Washout system for cleaning central mix plants.

—Scale-Tron, <https://scaletron.com>

Simpson Strong-Tie Large-Diameter Stainless-Steel Screw Anchors

Designed for severely corrosive interior or exterior environments, the Simpson Strong-Tie stainless-steel Titen HD® heavy-duty screw anchors (THDSS) deliver advanced performance for bridge, marine, and water treatment plant construction and retrofit applications. THDSS in 5/8 and 3/4 in. (16 and 19 mm) diameters are suitable for civil construction where corrosive elements can deteriorate standard carbon-steel screw anchors. The anchors made from Type 316 stainless steel and can be installed with an impact wrench or a hand tool. Titen HD anchors are code listed in IAPMO UES ER-493 (concrete) and ICC-ES ESR-1056 (masonry) for a wide variety of applications.

—Simpson Strong-Tie, www.strongtie.com



Products & Practice

Portable Inspection Device from Hoskin Scientific

The Camβ (Cam Beta), by Vision Engineering, is a portable, rechargeable, digital magnification system that can be used to capture images in the workshop, laboratory, production plant, or field. With a high-resolution color display and simple controls, users can quickly document inspected items. Features include magnification up to 20×, LED illumination, and ability to store up to 20,000 images.

—Hoskin Scientific,
www.hoskin.ca

Bosch GWS18V-45C 18V EC Brushless Angle Grinder

The Bosch GWS18V-45C is a 4-1/2 in. (114 mm) angle grinder that features the convenience of cordless grinder operation with advanced user control via a Bluetooth® connection with a smartphone. With just a few taps in the Bosch Toolbox App, the user can easily configure the grinder and save the settings for future tasks. The app also allows the user to review maintenance and performance notifications. The Bosch-exclusive motor design offers maximum efficiency and power.

—Robert Bosch Tool Corporation,
www.boschtools.com



FORTA® Fiber Delivery Units

The FORTA® Corporation's family of products now includes automated fiber delivery systems to accurately dispense and distribute fibers. The FORTA Voyager, a bulk fiber dispenser, is distinguished by its proprietary loss-in-weight system for precise fiber dispensing throughout batch runs. The Voyager comes in two sizes—both are suitable for stationary use, and the smaller one can be used in mobile situations. The controlled flow of the machine essentially eliminates waste and spillage, allows precise dispensing and inventory tracking, and provides uniform fiber distribution throughout an application. The system accommodates a broad range of concrete reinforcement fiber types and can operate at a wide range of feed rates. An easy-to-read display allows for real-time tracking of fiber delivery. The FORTA® Rover - Volumetric Mobile Fiber Dispenser is a fiber-dispensing solution specifically designed to be mounted directly on volumetric mixer trucks. The dispenser is available in single- or double-bobbin units. The motor speed can be easily regulated to achieve specified fiber feed rates and dosages.

—FORTA Corporation, www.FORTA-ferro.com

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Web Notes

Free Pavement LCA Web App Upgraded

Athena Sustainable Materials Institute announced that the free Athena Pavement LCA Web App has been updated to further simplify life cycle assessment (LCA). Version 3.1 of the Pavement LCA App includes several improvements. A life cycle cost analysis (LCCA) module has been added, so users can assess both the environmental and the cost burdens of different paving options. The latest version of the app includes an embedded-steel reinforcement mass estimator for portland cement concrete (PCC) roadways, so users no longer need to complete the calculation in another application. Aggregate profiles (natural, crushed, coarse, and fine) have been reworked to better handle project-specific transportation mode and distance specifications. Roller-compacted concrete pavement has been added to the options, and ready mixed concrete plant process data has been updated based on the NRMCA 2016 industry average LCA for concrete. The LCCA module uses a model developed by Mehdi Akbarian, a Postdoctoral Associate at the Concrete Sustainability Hub at MIT and a member of the U.S. Federal Highway Administration's Sustainable Pavement Technical Working Group. The software update was made possible with funding from the Cement Association of Canada and Athena Institute members.

—The Athena Institute, www.athenasmi.org

Book Notes

Publication Covers History of Association, Industry

In 1784, President George Washington set out on a journey that would ultimately lead to the Interstate highway system, according to *A Concrete Legacy: The Past, Present, and Future of the American Concrete Pavement Association*. This 150-page, limited-edition coffee table publication details the past, present, and future of the American Concrete Pavement Association (ACPA) and the concrete pavement industry. Beginning with a prologue of events that occurred between 1784 and 1956, and which affected the evolution of both the association and the industry, the publication includes dozens of photographs, fast facts, and vignettes that complement the main story. Readers will travel on a decade-by-decade journey of the association and the people and companies responsible for progress and accomplishments along the way. ACPA's *Legacy* publication was produced to commemorate the association's 50th anniversary; it is available for \$10 to ACPA members and \$45 to nonmembers.

—American Concrete Pavement Association, www.acpa.org/bookstore



Products & Service Literature & Videos

Benefits of Precast Concrete for Data Center Construction Explained in Tech Brief

AltusGroup, a North American network of 19 precast concrete manufacturers, issued a technical brief outlining the benefits of using precast concrete in data center construction. Available as a PDF on the AltusGroup website, the two-page brief explains how using CarbonCast high-performance insulated wall panels in data center construction saves time during construction and improves resiliency and energy efficiency in these buildings. The technical brief details how precast insulated wall panels protect against weather and fire and can limit vibrations from sound.

—AltusGroup, <https://altusprecast.com>