Bulldog Xtreme Max Rotary Hammer

Bosch’s RH228VC Bulldog Xtreme Max Rotary Hammer delivers a high level of speed and power without sacrificing vibration control. It features a long piston and impact bolt to increase the hammer’s efficiency, which allows it to strike harder and drill faster. The longer piston design and the use of internal counter-balance technology reduce the amount of vibration created by the hammer. The RH228VC offers variable speed operation and three operating modes: hammer, drill (up to 1-1/8 in. [29 mm] holes), and hammer/drill.

—Bosch Tools
www.boschtools.com

Xi Plus

Superior Walls launched the new Xi Plus™ line of insulated precast concrete wall systems. Custom-made for the exact needs of each project, Xi Plus panels feature the necessary strength and insulation for the creation of dry, energy-efficient foundations. Features include 5000 psi (34 MPa) concrete reinforced with reinforcing bars and polypropylene fibers, insulated access holes in each standard stud, and a 4 in. (100 mm) insulated footing beam to allow for the placing of a floor slab. The panels help create more energy-efficient buildings and, when set by certified Superior Walls installers, can save time at the job site.

—Superior Walls
www.superiorwalls.com

Pozzolith 700N

Pozzolith® 700N, from BASF, is a Type-A water-reducing admixture for sustainable concrete construction. It is specially formulated to provide a faster setting time in concrete mixtures containing supplementary cementitious materials, which normally slow concrete setting times. This will allow contractors to produce concrete with sustainable materials in the same amount of time as conventional concrete.

—BASF
www.basf-admixtures.com

Hidratium

CEMEX launched its second ready mixed concrete brand, Hidratium. It is designed to be self-curing through the use of proprietary admixtures and distinctive mixture design principles. Hidratium’s features include replacement of external curing, elimination of plastic shrinkage and cracking, reduction of water evaporation, the production of dust-free surfaces, and increased durability of structures. The concrete was developed by CEMEX in Switzerland and is available across the globe.

—CEMEX
www.cemex.com
Kretus Concrete Coatings

The Kretus line of concrete coatings has a product for every step of the coating process. Crack repair and patching can be done with Kretus Easy Patch, a two-part, epoxy-based patching material that spreads to fill cracks and holes. Epoxy Fast Set dries in less than 6 hours and leaves a high-gloss top coat, while Top Shelf Epoxy is 100% solids and gives 20 to 30 minutes of working time. For decorative concrete, Kretus Metallics is a powder that creates a marbled effect when mixed with clear epoxy and Lava Flow combines two colors in a self-leveling technique. Kretus products are available exclusively through Quest Building Products.

—Quest Building Products
www.questbuilding.com

VARIOKIT

A new application for Peri’s VARIOKIT engineering construction kit was used for the first time to build a bridge near Tarnów, Poland. The goal of the project was to expand the application range of the kit using as few additional system components as possible. The almost 2000 ft (600 m) long bridge was supported by 12 pairs of piers, and a casting solution was needed for the 700 ft (210 m) stretch over the Dunajec River. Using four cantilevered units based on VARIOKIT, the contractor was able to bring fresh concrete loads into the structure while moving the framework from section to section. The bridge was cast in 16 ft (5 m) wide segments. A moving procedure was developed to ease the process of advancing to the next section, and the resulting equipment gave a high degree of flexibility for forming the bridge cross sections. The system is also compatible with the PERI UP modular scaffold, to ensure worker safety, and all components are reusable.

—PERI
www.peri.de

Hyundai Skid Steer Loaders

Hyundai offers two skid steer loaders that provide flexibility and efficiency. The HSL850-7A is ideal for job sites where space is tight and a large volume of material needs to be moved. It has a maximum dump height of 7.75 ft (2.4 m) and comes with a 74.6 in. (1.9 m) wide, 0.48 yd³ (0.37 m³) bucket. The smaller HSL650-7A is lighter and easier to maneuver in tight spaces. Its dump height is 7.25 ft (2.2 m) and it has a 0.4 yd³ (0.3 m³) bucket that is 64 in. (1.6 m) wide. Both machines feature a self-leveling control system, offer easy engine access, have a centralized fuse box, and include a number of safety features. The buckets can be replaced with specialized attachments, including a backhoe, hydraulic breaker, sweeper, and trencher, many of which are powered by the loader’s hydraulic system.

—Hyundai Construction Equipment
www.hceamericas.com

Web Notes

CTS Expands Software Reviews

CTS Guides, a publisher of construction software reviews, ratings, and evaluation tools, has added previews to its Web site. Each preview provides a product snapshot that includes pros and cons and product highlights. Visitors can also access detailed product reviews by downloading CTS’ free Construction Software Selection Kit. The kit includes side-by-side performance ratings for over 1000 features; product comparisons for pricing, support costs, and training options; and free software selection tools. Contractors can access the previews and download the kit at www.ctsguides.com/construction-accounting-software.asp.

—CTS Guides
www.ctsguides.com
Book Notes

Life-Cycle Cost Analysis: A Tool for Better Pavement Investment and Engineering Decisions
by the American Concrete Pavement Association

The American Concrete Pavement Association (ACPA) released its “Life-Cycle Cost Analysis: A Tool for Better Pavement Investment and Engineering Decisions.” This publication begins by discussing life-cycle cost analysis (LCCA) in general terms and then providing detailed steps for conducting a single-project LCCA. Real-world examples with detailed analyses are provided for LCCAs of road, highway, and airport pavements. This book acts as a guide for planning and procurement personnel in federal, state, county, and municipal agencies, as well as for contractors, consultants, and others who have an interest in enhancing investment and engineering practices and processes. Other topics covered include sustainability, pavement type selection, material specifications, and total ownership cost. The guide includes high-quality photographs, detailed charts, and tables. It can be purchased online at www.acpa.org/bookstore.

American Concrete Pavement Association; Web site: www.acpa.org
price: $25 for ACPA members, $100 for nonmembers; 128 pp.

Products & Service Literature & Videos

fib Bulletins 63 and 64

The International Federation for Structural Concrete (fib) released two new documents in its series of bulletins.

fib Bulletin 63, “Design of precast concrete structures against accidental actions,” summarizes present knowledge on the effects of accidents, such as explosions. Structural failure in the event of such an accident is usually due to progressive collapse caused by the failure of a critical structural member at the perimeter of a building already lacking adequate continuity and ductility to prevent the spread of damage. As it is a relatively rare event, it is difficult and economically prohibitive to design buildings to withstand such abuse; however, this bulletin presents guidance for the proper design of precast structures that have stronger resistance to such accidental overloads.

fib Bulletin 64, “Effect of zinc on prestressing steel,” provides a summary and evaluation of the relative parameters on the corrosion behavior of high-strength wires, strands, and bars when in contact with zinc and without the presence of fresh cementitious grout or concrete. It was produced in response to concerns related to the risk of hydrogen-induced stress corrosion on galvanized prestressing steels after they come in contact with cementitious grout, which research has indicated may occur.

To purchase either of these bulletins, visit www.fib-international.org/publications.