

Products & Practice

BCMI Corp. Material Pro and Material Now

BCMI Corp. announced its Material Pro and Material Now business apps, offering an end-to-end collaboration platform for concrete producers and contractors. Material Pro connects all aspects of the producer's business, with shared access to real-time information for operations, sales, dispatch, and accounting teams. Analytics dashboards convert data from plants, trucks, customer activity, and sales into actionable, on-demand information. The full suite of business tools includes cloud-based concrete dispatch, quoting, sales reports, invoicing, and mixture management to complete the "quote-to-cash" cycle within a single system. Material Now provides contractors with the same valuable information, tailored to their own teams and projects. With the companion app to Material Pro, producers can share critical updates with project teams simultaneously. Contractors and inspectors can track the status of every load, including performance data on crews and concrete delivery.

—BCMI Corp., www.bcmicorp.com



Brokk 200

The Brokk 200 comes equipped with Brokk's signature SmartConcept™ technology for increased efficiency. SmartConcept includes the extra power of SmartPower™, the added reliability of SmartDesign™, and the enhanced ergonomics and productivity of SmartRemote™. The machine operates tools with requirements typical of one weight class above. When paired with the Brokk BHB 305 breaker, the unit's hitting power is increased by 40%. The machine delivers 450 ft-lb (610 J) with each blow of the 650 lb (2.9 kN) hydraulic breaker. In addition, the Brokk 200 offers 15% longer vertical and horizontal reach in a compact footprint similar to the Brokk 170. The extra chassis length and machine weight ensure proper balance, even when wielding heavy attachments such as breakers, drum cutters, grapples, and concrete crushers.

—Brokk, www.brokk.com



Pyramex Passive Pro Series Base Level PPM1 Earmuff

Pyramex® unveiled the Passive Pro Series Base Level PPM1 Earmuff. The new earmuff is designed for operation in excessive noise environments, combining ANSI-rated hearing protection with all-day wearing comfort. The Passive Pro Base Level earmuff features a noise reduction rating of 23 dB with sound-absorbing internal foam, providing significant hearing protection from potentially harmful noises. In addition, the earmuff's dielectric construction allows for use in various industrial environments, including those that present potential electrical risks. The earmuff features soft, easy-to-clean ear cushions along with a low-profile design with height adjustment to ensure a comfortable fit. The earmuff's vented headband adds an extra layer of comfort and convenience. Its adjustable headband also allows for easy transport with the ability to quickly attach to any bag, backpack, or belt loop. The Passive Pro Base Level earmuff is available with the option of custom imprinting, allowing companies to customize the earmuffs with their own logo and branding.

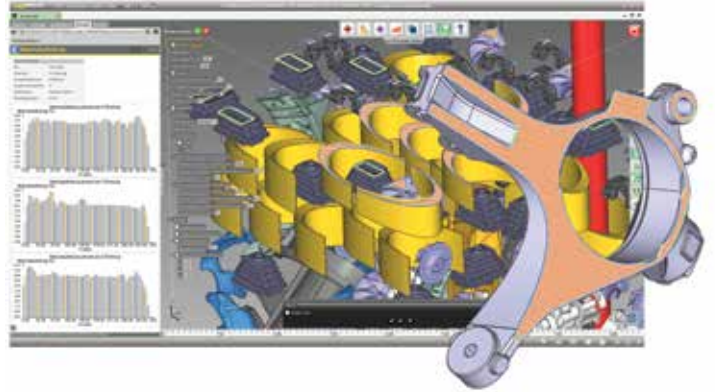
—Pyramex, www.pyramex.com



Products & Practice

CoreTechnologie 4D_Additive Software

CoreTechnologie extended its three-dimensional (3-D) printing software 4D_Additive with a scalable vector graphics (SVG) image export. The new feature is based on accurate 3-D and computer-aided design (CAD) models. Until now, the preparation of 3-D models was limited to stereolithography (STL) models only due to the limitations of existing software tools. With the new function, vector graphics can be exported. The 4D_Additive software offers the possibility to generate exact cutting curves of the material layers as spline curves instead of creating paths from many thousands of straight lines. The previously common generation of pixel files is replaced by vector graphics with the new software version. The latest version of the 4D_Additive slicer module also creates vector graphic files to represent the geometry in detail regardless of the size of the part. The 4D_Additive build processor can generate exact slicing curves for printing processes such as selective laser sintering (SLS) and selective laser melting (SLM). By using exact CAD models for slicing and SVG files with exact image resolution, the information on the individual material layers is sent to the printer with very high precision and without loss of quality.



—CoreTechnologie, www.coretechnologie.com

DICA EcoMax Crane Pads

DICA EcoMax Crane Pads combine alternating solid composite “timbers” and steel I-beams connected with through-bolts for maximum load distribution. This product has stiffness, strength, and performance properties similar to DICA’s FiberMax Crane Pads or steel pads but is less expensive than either of those options. EcoMax is ideal for distributing concentrated loads from equipment with outriggers, such as mobile cranes, concrete pump trucks, and self-erecting tower cranes. While EcoMax is heavier than FiberMax Crane Pads, it is lighter than solid steel mats. EcoMax Crane Pads are available in four sizes ranging from 20 to 40 ft² (1.9 to 3.7 m²) with maximum rated capacities of 175,000 to 325,000 lb (79,380 to 147,420 kg), respectively. EcoMax Crane Pads are nonabsorbent, easy to clean, and resistant to rot and decay.

—DICA, <https://dicausa.com>

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Ergodyne Skullerz ANSI Type 2

Ergodyne launched ANSI Type 2 safety helmets and a new generation of bump caps. Skullerz® ANSI Type 2 safety helmets provide comprehensive protection, offering safeguards to the top, front, side, and rear of the head to meet the stringent ANSI/ISEA Z89.1-2014 (R2019) Type 2 requirements without compromising on the breathable design. Four new Type 2 safety helmets joined the Skullerz line, including models with adjustable venting and rechargeable three-mode LED headlamps. Along with these, the Skullerz 8943F(x) Universal Bump Cap Insert forms the backbone of Ergodyne's latest bump cap offering. With a flexible design and a hinged feature that allows hair to escape out the back, the 8943F(x) accommodates a variety of head sizes and hairstyles. The new bump cap insert design is the result of intensive collaboration with ramp workers from a major passenger airline and can be found in four other new solutions.

—Ergodyne, www.ergodyne.com

Products & Service Literature & Videos

Marcum's 2023 National Construction Survey by Marcum LLP

Marcum released its 2023 National Construction Survey. Among this year's key findings, companies were found to be struggling with rising inflation and interest rates, with 50% expecting project delays or cancellations. Over half anticipate difficulty in passing expenses on to customers. Respondents in the survey also pointed to a significant decline in the ease of obtaining financing, down to 4% from 19% last year. The survey also indicated increased difficulty in obtaining bonding. Despite the challenges, the survey reveals that the construction industry is showing impressive resilience. Just 32% of respondents expected a lower backlog this year, and those expecting a higher backlog were at 41% this year, just a 7% drop from the previous year. Additionally, supply chains have improved, and material costs are stabilizing, with some sectors reporting declines. Sustained demand for skilled labor indicates underlying economic robustness.

—Marcum LLP, www.marcumllp.com

Engineering Business Sentiment 2023 Q3 by ACEC Research Institute

The ACEC Research Institute released its Engineering Business Sentiment report findings for the third quarter of 2023. New data showed engineering executives share a more positive outlook on the U.S. economy now and into the future. At the same time, firm leaders listed concerns about inflation and workforce shortages as their biggest issues. As firms continue to turn down work, they noted a lack of qualified workers as the single largest barrier to growing their company. This survey offers a look at current and future conditions in engineering and the larger economy from the viewpoint of 570 executives across the engineering and design services industry. It measures sentiment by a "Net Rating" system, with zero being neutral. The higher or lower the number, the stronger the sentiment (positive or negative). Among respondents, the current sentiment of the U.S. economy was up 14 points from last quarter, coming in at a +32 reading, while industry and individual firm sentiment remained extremely optimistic. Seventy percent of respondents predict there will be an increase in hiring over the next 12 months at their firms, resulting in a Net Rating of +66. On average, one out of 10 positions are currently unfilled.

—ACEC Research Institute, www.acecresearchinstitute.org

Product Showcase

Technologies for Enhancing Durability

Sakrete Cold Weather Concrete Mix

Sakrete Cold Weather Concrete Mix can set in 1 hour at 0°F (-18°C). This product helps eliminate the expense and hassle of insulated blankets or portable heaters for winter weather placements. Cold Weather Concrete Mix is a highly engineered blend of aggregates, cement, and proprietary admixtures designed to quickly develop a strength of 8000 psi (55 MPa). It's ideal for applications at temperatures as low as 0°F, and it features exceptional freezing-and-thawing resistance for projects over 2 in. (50 mm) in depth. At 0°F, a batch with a 3 in. (76 mm) slump has an initial setting time of 10 to 30 minutes and a final setting time of 30 to 60 minutes. The product is supplied in 50 lb (22.7 kg) bags, with 64 bags per pallet. One bag can cover 1 yd² (0.8 m²) of a 4 in. (102 mm) depth placement.

—Sakrete, www.sakrete.com



Dutch Boy Paints Concrete and Masonry Floor Coatings

Dutch Boy® Paints released a lineup of concrete and masonry floor coatings. Durable water and solvent-based formulas help seal and protect concrete and masonry surfaces, such as floors, pavers, walkways, and pool decks. The lineup is available in a wide range of colors and long-lasting finishes, and it includes sealers and stains. Dutch Boy Paints' water-based Paver Sealer adds a subtle sheen without altering the underlying surface color. The clear concrete waterproof coating keeps moisture out by quickly penetrating and filling gaps within porous concrete surfaces, providing protection from the elements without altering appearances. It also provides a barrier on bare concrete and masonry, repelling water year-round and protecting against winter's freezing-and-thawing cycles and deicers. Available in a 35-color palette and one ready-to-use color, concrete stain products can also be tinted to match any color scheme or style while also protecting against wear and tear that comes with constant use and prolonged exposure to the elements. Dutch Boy Paints' concrete and masonry floor coatings protect from stains, scuffs, fading, cracking, and peeling, and they resist degradation from ultraviolet rays.

—Dutch Boy Paints, www.dutchboy.com

Cortec MCI PTC Emitters

Cortec's PTC Emitters are breathable pouches containing migrating corrosion inhibitor (MCI®) powder. They can be placed in void spaces where corrosion protection is needed. The MCIs vaporize through the pores of the pouch, diffuse throughout the space, and finally form a protective molecular layer on surrounding metal surfaces. Distribution of the MCI vapors in large spaces can be enhanced by blowing dry air through the pouches if needed. PTC Emitters were initially designed to mitigate corrosion on suspension bridge cables. Dehumidification systems are sometimes used to force dry air through these cables to reduce moisture and stave off corrosion. PTC Emitters can be easily placed in chambers added to the dehumidification piping for the purpose of blowing MCI vapors throughout the intricacies of the suspension cable strands. PTC Emitters can also be adapted to many other construction/structural applications where metal needs corrosion protection inside a void space, including tubular structures, pipes, and vessels; segmental concrete bridge tendons/cables; and reinforcement inside box girder segments.

—Cortec Corporation, www.cortecvci.com

