

Products & Practice

IronBOT

Advanced Construction Robotics (ACR) launched IronBOT®. IronBOT augments construction crews by lifting, carrying, and placing up to 5000 lb (2270 kg) bundles of reinforcing bar in a transverse or longitudinal orientation without the need for heavy lifting from crew members. When IronBOT is combined with TyBOT®, the company's reinforcing bar-tying robot, this BOT Bundle can provide schedule savings during reinforcing bar installation.

IronBOT completed its pilot project at the Port St. Lucie West Boulevard Bridge in Port St. Lucie, FL, USA, and cut the completion time from an estimated 14 days to 7 days. During the pilot, IronBOT placed 147,032 lb (66,700 kg) of reinforcing bar while TyBOT completed 58,068 ties over 6.5 production shifts.

—Advanced Construction Robotics, Inc., www.constructionrobots.com



Pelican 8QT Cooler Lunchbox

Pelican Products, Inc., a provider of rugged protective cases and coolers, released the Pelican™ 8QT Personal Cooler. This lunchbox cooler offers all-day cold retention for a day on the job. The integrated ice pack is removable and reusable. The cold air from the ice pack circulates through the inner tray and the main compartment. The inner tray keeps food cold and dry. The main compartment holds up to eight canned drinks or larger items. The cooler is made with polyurethane walls and has a freezer-grade, 360-degree gasket seal to ensure items stay cold.

Inside the cooler's lid is a dry storage area for keys, phones, or wallets, and on top of the lid are integrated cup holders. The durable cooler also features an exclusive Press & Pull™ latch for easy opening and closing and a collapsible handle for easy transport.

—Pelican Products, Inc., www.pelican.com

Telehandler Simulator Training Pack

CM Labs Simulations, vendor for simulation-based training in the construction and ports industries, has released its Telehandler Simulator Training Pack. The simulation-based operator training can accurately replicate machine stability and engine behavior. The Training Pack also helps organizations address safety, sustainability, and equipment maintenance.

The Training Pack's progressive learning exercises gradually build skill and confidence. Trainees work on skills, such as controls familiarization, trailer loading and unloading, lifting from ground and heights, live attachment change, and shuttle operations. Performance metrics tracked during training exercises include safety violations, such as collisions, tipping or flipping, loads dropped, machine stability, and fuel efficiency.

—CM Labs Simulations Inc., www.cm-labs.com



Products & Practice

SlatTrax

DICA announced the acquisition of SlatTrax, ground protection and temporary access road for a variety of markets, such as general construction, utilities, public works departments, grounds care, and hardscape contractors. SlatTrax can be deployed mechanically or manually. Both options allow users to deploy and retrieve the roadway quickly. It provides temporary worksite access, minimizes damage to lawns, and gives crews a stable work surface. Durable and easy to handle, SlatTrax is for companies that are working with light- and medium-duty equipment in a wide variety of industries.

—DICA, www.dicausa.com



A5 Concrete Expansion Anchor and Swivel Anchor

Height safety specialist Guardian announced two new anchors to its comprehensive anchor lineup. Designed to reduce complexity and enhance ease of use, the A5 Concrete Expansion Anchor is a “lollipop” style concrete anchor that features a pinch-free, ergonomic thumb rest, clear protective cable wrap for easy inspection, and is rated to 5000 lb (2270 kg). The A5 Concrete Expansion Anchor can be easily installed and easily removed for quick relocation.

The Swivel Anchor is a 10,000 lb (4540 kg), 360-degree swiveling anchor designed for concrete or metal substrates. The main Swivel Anchor component is reusable and is compatible with any attachment method, reducing the number of required parts to cover a wider range of applications.

—Guardian, www.guardianfall.com



ProFlex 360 Hard Shell Hinged Knee Pads

The Ergodyne ProFlex 360 Hard Shell Hinged Knee Pads couple ergonomic hinged design with a heavy-duty hard shell and soft nonmarring cap for use on all surfaces. They offer a lightweight, tough, and comfortable design that moves the way the workers move so that they stay in place and never get in the way.

The free-moving hinge design enables smooth and full 180-degree extension of the pad when straightening the knee. Thick, closed-cell foam padding provides supportive all-day comfort, while the extra-large rubber cap maximizes surface area to increase stability and minimize risk of scratching or marking flooring.

—Ergodyne, www.ergodyne.com

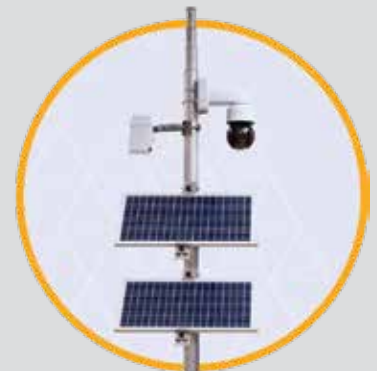


PTZ600 Solar and AC-Powered Cameras

Sensera Systems, Inc., supplier of compact solar site cameras, released its PTZ600 Solar and AC-Powered camera models. Sensera PTZ600 solar-powered smart panoramic jobsite cameras offer Sensera’s advanced features while enabling customers additional flexibility to round out their jobsite solution.

Sensera’s PTZ600 camera is designed for remote site monitoring and is used to document construction progress and safety issues and manage productivity and logistics on jobsites. Ideal for large-scale sites requiring a wide coverage area and fine detail, this camera provides three new capabilities: multi-location time-lapse generation, automated panoramas, and live video streaming with real-time pan/tilt/zoom.

—Sensera Systems, Inc., www.senserasytems.com



Products & Service Literature & Videos

Tips for Diamond Grinding Bridge Decks: Avoid These Common Mistakes Before Grinding the Bridge Surface by The International Grooving & Grinding Association

The International Grooving & Grinding Association (IGGA), a nonprofit trade association that serves as a technical resource in the development and marketing of optimized pavement surfaces and pavement preservation, released a tip sheet, *Tips for Diamond Grinding Bridge Decks: Avoid These Common Mistakes Before Grinding the Bridge Surface*. The document is an educational resource for contractors that explains how to avoid damage to bridge joints during construction.

Road owners specify diamond grinding to improve ride quality, friction, and drainage capabilities of new bridge deck surfaces. Because diamond grinding involves removing a thin layer of concrete from the road surface and diamond grinding machines have long wheelbases and need to transition slowly into grade changes, the IGGA offers the tip sheet as guidance for accommodating the grinding process.

—The International Grooving & Grinding Association, www.igga.net



Web Notes

Avanti International Launches New Website

Avanti International launched its new and improved website, avantigrout.com.

The redesign better incorporates the markets that its injection grout products serve, and it simplifies the look and feel to focus on product knowledge and technical data. The primary goal was to create a user-friendly design with a valuable collection of industry resources; including animations, project case studies, white papers, and product specifications.

—Avanti International, www.avantigrout.com

Formwork for Concrete, 8th Edition

The American Concrete Institute's iconic *Formwork for Concrete Manual*, 8th Edition, includes the current standards and practices, removes outdated or irrelevant material, adds content on new developments in formwork technology and practice, and updates the look and layout of the document. New design examples and chapter problems have been included to make the document easier to use as a teaching tool, while still maintaining its status as a reference for practicing engineers.



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Product Showcase

Coatings & Sealers

Ghostshield Iso-Tek 8501

Iso-Tek™ 8501 is a nanotechnology-based deep penetrating concrete sealer. Iso-Tek 8501's gel-like consistency increases the time of contact and allows for increased penetration depths. Iso-Tek 8501 dries clear; will not change (or darken) concrete; and, due to its hydrophobic properties, will reduce ingress of water, chloride ions, and sulfates.

—Ghostshield, www.ghostshield.com



Tenon Ultimate Barrier

Bluestone Products® introduced Tenon® Ultimate Barrier, a nonyellowing, fast-drying, acrylic-silicone blended concrete sealer. Tenon Ultimate Barrier is designed for curing, dustproofing, and weatherproofing of freshly placed or existing concrete. The product reacts within the molecular pore structure of concrete while also providing a coalescing monolithic film at the surface. Tenon Ultimate Barrier provides curing of the substrate; improves resistance to abrasion, deicers, and mild acids; and limits staining due to oils, soot, and fumes.

—Bluestone Products, www.tenonsolutions.com



Krytol T1

Kryton's Krytol T1 is a surface-applied crystalline slurry treatment that chemically reacts with water and unhydrated cement particles. This reaction forms insoluble, needle-shaped crystals that interlock and fill the concrete's microcracks and capillary pores, blocking pathways for water ingress.

A single application creates a watertight structure that can last for the life of a concrete element, even when subjected to high hydrostatic pressure. Krytol T1 can be applied to new or existing concrete, installed from the positive or negative side of hydrostatic pressure, and is certified by the National Sanitation Foundation as safe for use on potable water projects.

Krytol T1's features allow project teams to reduce the risk of water ingress, expedite their waterproofing or leak repair work with a simple and versatile surface application, and maximize the service life of a concrete structure.

—Kryton, www.kryton.com



U-SEAL Concrete Sealer

Fishstone U-SEAL™ sealer is a high-performance, two-component hybrid urethane/acrylic sealer formulated for the decorative concrete industry. Fishstone U-SEAL sealer is chemically resistant, highly durable, and cures hard within 24 hours of application with a full cure in 7 days. Fishstone U-SEAL sealer is food-safe and ultraviolet (UV) stable, while offering enhancement of the substrate. The product has a 2-hour pot life after mixing and is easy to apply.

—Fishstone, www.concretecountertopsupply.com



Dural 335

Euclid Chemical's Dural 335 is a 100% solids, moisture-insensitive, ultra-low-viscosity, two-component epoxy penetrating crack sealer for concrete bridge decks, roadways, parking decks and ramps, and runways. Dural 335 is free of solvents and has a very low odor. It protects treated concrete surfaces from salts, chemicals, and water absorption while providing a skid-resistant finish. With a fast turnaround time, Dural 335 has excellent penetration into existing cracks, prolonging the life of concrete infrastructure.

—The Euclid Chemical Company, www.euclidchemical.com



SPARTACOTE High-Yield System with Lux Additive

LATICRETE, a manufacturer of construction solutions for the building industry, has launched the SPARTACOTE® High-Yield System with patent-pending Lux Additive, a resinous coating system developed to increase photosynthetic active radiation (PAR) reflectance of floor and walls by up to 56%, which effectively increases the amount of light available for photosynthesis. The SPARTACOTE High-Yield System with Lux Additive is designed as a complete grow room and greenhouse-specific high-performance coating system. The product's reflective technology successfully lowers energy consumption by helping to offset the cost of artificial lighting and provides more complete exposure in the space to increase plant yield.

—LATICRETE, www.laticrete.com



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