# Products & Practice

#### JLG EC600AJ Boom Lift

The JLG EC600AJ boom lift has an unrestricted platform capacity of 550 lb (249 kg) and a restricted capacity of 750 lb (340 kg). The design provides up-and-over capability with 27 ft 1 in. (8 m) of up-and-over height, allowing machine operators to navigate architectural features and obstacles while maintaining positioning control. For example, this model's articulated design allows for multiple positioning configurations. It also has a 130-degree jib articulation range (+70, -60 degrees) and 400-degree non-continuous swing, enabling operators to position the platform in confined spaces or around obstacles. This flexibility, combined with a platform height of 60 ft (18 m) and horizontal outreach of 36 ft (11 m), makes the EC600AJ boom lift viable for applications like facility maintenance, construction, and renovation projects. The EC600AJ boom lift is powered by two 10.7 kWh lithium-ion batteries and has four-wheel-drive AC drive motors for terrain capability. Featuring both two-wheel (2WS) and four-wheel (4WS) steering system options, this machine offers 40% gradeability with a 5-degree tilt cut-out for challenging terrain. Additional features of the EC600AJ include:

- Tight turning radius of 4 ft 11 in. (1.5 m) in 4WS mode;
- Non-marking, non-directional rough terrain foam-filled tires as standard; and
- Advanced control system.

With improved transportability over previous models through a shorter stowed length and compact design, contractors can fit two EC600AJ units onto one trailer, reducing transportation costs and logistics complexity. This model has also been redesigned with an internal power track and hybrid hood design, adding durability while maintaining access to key components for servicing.

-JLG Industries, Inc., www.jlg.com

#### Nichiha ConcreteBoard

ConcreteBoard is a cladding option that delivers the look of placed concrete without the time or cost of traditional masonry. It has fiber cement durability and built-in moisture management. It installs horizontally using Nichiha's Ultimate Clip System. Each 17-7/8 in. (454 mm) by 71-9/16 in. (1818 mm) panel is 5/8 in. (16 mm) thick and features four varied-height boards arranged in staggered rows to create dimensional depth and visual complexity. Built for commercial applications, ConcreteBoard resists fire, wind, pests, and rot without requiring sealing, staining, or special upkeep. In addition, an integrated rainscreen system allows for year-round installation and promotes air and moisture drainage behind the panel. ConcreteBoard joins Nichiha's Concrete Series, which reimagines the look of concrete through a range of fiber cement panels. IndustrialBlock has a rugged finish, EmpireBlock has a dimpled texture for an industrial aesthetic, and Corbosa provides the saturated look of wet concrete.

—Nichiha Corporation, www.nichiha.com

#### **COR-MAP II**

COR-MAP II® is a half-cell potential (HCP) system for locating areas of reinforcing bar corrosion with a digital mapping feature. It measures the bonding strength between two layers of existing materials and determines the adhesion strength of shotcrete, epoxies, paint, asphalt, and other repair materials or coatings. COR-MAP II includes ten 2 in. (51 mm) discs. The electrode is designed for use on horizontal, vertical, and inverted positions. Ruggedized electronics allow for rapid analysis of data in the field or office. Temperature and humidity sensors facilitate the inclusion of environmental conditions in data analysis.

-James Instruments Inc., www.ndtjames.com



### Products & Practice

#### **Albion DDT**

The Albion DDT, or delamination detection tool, detects invisible delamination, voids, and hollows below the surface of concrete, tile, and natural stones. It is used for nondestructive inspections of concrete slabs, parking garages, bridge decks, beams, tiles, balconies, and tunnels. Changes in the sound of the sprocket teeth tapping the surface reveal the hidden defects. It reduces the need to climb up and down ladders with a hammer and helps prevent wrist strain from repetitively tapping with a hammer. The tool is also useful for nondestructive sealant adhesion testing. The body of the DDT tool is a solid aluminum extrusion, threaded to accept a standard painter's extension pole or broom handle. There is also a slot with a set screw for a marking crayon or paint pen. The wheels are hardened steel, mounted on precision shoulder bolt axles, spring-loaded for smooth turning and auditory feedback.



—Albion Engineering Company, https://albioneng.com

#### FallTech FT-R+

The FallTech FT-R+™ is a Class 2, leading-edge self-retracting lifeline (SRL) that can be repaired directly on site. The FT-R+ uses a SpeedLine™ system that simplifies and expedites SRL repairs. This design allows damaged lifelines to be replaced in minutes, allowing workers to resume operation with minimal downtime. At the core of this system is LineLoc™, a locking mechanism that disengages a damaged cable and secures a replacement in seconds. The FT-R+ builds upon the foundation set by the American National Standards Institute (ANSI) Class 2-rated FT-R™ SRL. The FT-R+ contains the same features as FT-R, such as support for workers up to 420 lb (191 kg) and multiple anchorage options, including above, at, or up to 5 ft (1.5 m) below a worker's D-ring. With a compact design, energy absorption, and smooth movement, the FT-R+ delivers safety and performance.



—FallTech®, www.falltech.com

#### **SKEW JIG Systems**

The SKEW JIG System is a universal, lightweight, and flexible modular framework system for daily use in reinforcement manufacturing. The system can be adapted to accommodate the shapes and dimensions of concrete elements required over the course of a construction project.

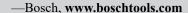
SKEW offers a variety of JIG Systems suitable for assembling mesh and panels. The table setups and bench setups can be equipped with grips arranged in perpendicular patterns. SKEW provides colored markers for placing the correct reinforcement at the designated location. The reinforcement cages will be fixed in form, maintaining the proper dimensions. SKEW provides a range of solutions for reinforcement gripping, accommodating various spacings and diameter ranges. In addition, grips designed specifically for double bars or splice areas are available.

-SKEW Accessories, https://skew.nl



#### **Bosch 12V Max Connected Handheld Inspection Cameras**

The Bosch 12V Max Connected 5 ft (1.5 m) Handheld Inspection Camera features a high-resolution 4 in. (102 mm) display that captures color images with storage for up to 30 pictures. The device features marked buttons and a menu. The Bosch 12V Max 11 ft (3 m) Handheld Inspection Camera comes with a high-resolution 5 in. (127 mm) display that captures color images and video with storage for up to 30 files. It is video compatible, allowing users to capture and store images and video for further analysis. Rubber housing combined with IP67 (camera cable) and IP54 (tool) rating offers protection on the job for both cameras.





#### Combi-Shears HCS8

The handheld, hydraulic Combi-Shears HCS8 are equipped with cutter and gripper technology and are suitable for coring buildings, as well as for a variety of other applications. The device can be handled by one person. Combi-Shears HCS8 are vibration-free and produce little dust and noise. The HCS8 basic model is available with four types of inserts:

- Concrete Jaw, HCS8 J—dismantles concrete walls up to 150 mm (6 in.) thickness, depending on the concrete's compressive strength. Useful for demolition of thin partition walls, façade panels, or in the renovation of prefabricated buildings;
- Brick Jaw, HCS8 B—breaks through walls up to 320 mm (13 in.) thickness. Replaces the conventional sledgehammer;
- Sickle Blade, HCS8 S—cuts pipes, round materials, disconnected power cables, and profiles made of sheet metal or wood. Designed to hold the material to be cut and to prevent slippage; and
- Shear and Expander, HCS8 C—designed to expand and separate material. Radiators can be pushed from the wall, door frames can be broken out, and split concrete pieces can be separated. Along with steel reinforcements up to 16 mm (5/8 in.), it cuts a variety of construction materials.
  - -Brokk Inc., www.brokk.com

### Add to the AC Knowledge Base



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For further information, contact Lacey Stachel, Editor-in-Chief, at lacey.stachel@concrete.org.

## Showcase\_

### **Technologies for Enhancing Durability**

#### **Sher-Bar TEC**

Sher-Bar<sup>™</sup> textured epoxy coating (TEC) reinforcing bar coating technology offers increased bond strength, damage tolerance, and corrosion resistance for both horizontal and vertical concrete projects, improving asset longevity and reducing environmental impacts associated with construction and maintenance. The textured finish enhances concrete adhesion, contributing to structural stability. The bonding strength supports high-impact applications such as bridge decks and vertical structures. By helping concrete securely anchor to reinforcing bars, Sher-Bar TEC reduces long-term repair needs, supporting cost-effective infrastructure. It incorporates upcycled materials and provides durability for high-impact structures such as bridges, highways, commercial buildings, and industrial foundations. It is



advantageous for vertical builds in seismic zones, where the strong bond between reinforcing bars and concrete is critical for structural stability. In addition, Sher-Bar TEC coated reinforcing bars minimize congestion in reinforcing bar cages by requiring less overlap than uncoated bars, facilitating faster installation and streamlined construction processes. The rebranded Sher-Bar line includes two additional products: Sher-Bar™ Green, which follows ASTM A775/A775M, "Standard Specification for Epoxy-Coated Steel Reinforcing Bars," for reinforcing bars requiring flexibility and featuring no cracking during the fabrication process; and Sher-Bar™ Purple, which follows ASTM A934/A934M, "Standard Specification for Epoxy-Coated Prefabricated Steel Reinforcing Bars," for prefabricated applications requiring chemical resistance and corrosion protection.

—The Sherwin-Williams Company, www.sherwin-williams.com

#### **Dynamon Easy 75**

Dynamon Easy 75 is a normal-setting, multi-range, water-reducing admixture for concrete. By varying the dosage rate, it can be used as a normal or mid-range admixture. It improves the quality of concrete by decreasing the watercementitious materials ratio (w/cm). Dynamon Easy 75 is designed for concrete that requires power troweling and is a solution for slabs, but it can also be used for any application where enhanced concrete aesthetic performance is required. It offers increased workability and finishability without prolonging set times, lower permeability and enhanced durability to freezing-and-thawing cycles, increased compressive and flexural strength, and improved pumpability. Dynamon Easy 75 meets ASTM C494/C494M, "Standard Specification for Chemical Admixtures for Concrete," Types A (water-reducing admixtures) and F



(water-reducing, high range, and retarding admixtures), as well as CSA A23.1, "Concrete Materials and Methods of Concrete Construction," standards.

—MAPEI Corporation, www.mapei.com

#### **CRISTALLUM**

CRISTALLUM is a premium-grade, water-based concrete curing compound designed for interior and exterior use on vertical and horizontal surfaces where visual appearance is important during the curing process. CRISTALLUM forms a clear film that optimizes water retention to help create a harder, denser finished concrete surface while preserving the concrete's visual aesthetic during the curing period. It offers improved resistance to cracking, abrasion, and chemical attack. It enhances both compressive and tensile strength while minimizing common surface defects such as thermal cracking, hairline checking, dusting, and shrinkage. CRISTALLUM can be used for a range of applications, including exposed floors, architectural concrete, decorative surfaces, and polished installations. After dissipation or proper removal, surfaces treated with CRISTALLUM are ready to accept paints, resilient tile, flooring



adhesives, and other coatings. It applies with standard commercial spray equipment and meets volatile organic compounds (VOC) compliance regulations, offering contractors an environmentally responsible curing solution.

-W.R. Meadows, Inc., www.wrmeadows.com

#### **RHINO Carbon Fiber CFRP Reinforcement Systems**

RHINO Carbon Fiber® carbon fiber-reinforced polymer (CFRP) solutions are engineered for structural rehabilitation and strengthening of critical infrastructure. Designed for applications like parking structures, bridges, and seismic building reinforcement, these systems restore deteriorated buildings and extend service life with high-performance carbon-fiber technology. Compliant with ACI PRC-440.1, "Guide for the Design and Construction of Structural Concrete Reinforced with Fiber-Reinforced Polymer (FRP) Bars," RHINO Carbon Fiber products meet industry codes for externally bonded FRP systems. The commercial portfolio includes strengthening solutions for walls, slabs, beams, and columns, providing engineers and contractors with options for rehabilitation challenges. By combining code compliance with CFRP performance,



RHINO Carbon Fiber contributes to stronger and longer-lasting repairs across commercial and infrastructure projects.

—RHINO Carbon Fiber, www.rhinocarbonfiber.com

