

# Products & Practice

## DICA Slot Lock Cribbing Blocks

DICA's Slot Lock cribbing blocks are part of the ProStack® cribbing product line. They stack and lock together, giving users the ability to safely gain needed cribbing height in unlevel conditions. When used together, the combination of a DICA SafetyTech® base pad and two ProStack blocks has a 100,000 lbf (445 kN) working load limit and a maximum allowable pressure of 500 psi (3.45 MPa). Slot Lock flanges interlock with a DICA SafetyTech base pad and with each subsequent block layer when positioned in alternating directions. Each layer increases cribbing height by 5 in. (127 mm), and the surface allows room for outrigger feet measuring up to 18 x 18 in. (460 x 460 mm). Each ProStack Slot Lock block weighs less than 30 lb (13.6 kg) and features molded hand grips, making it easy for one person to carry and position blocks. TuffGrip® handles can be added as an option to facilitate carrying two blocks at once. DICA's Hi-Viz orange TuffGrip handles are waterproof and resistant to UV light, hydraulic fluids, and road chemicals.

—DICA, [www.dicausa.com](http://www.dicausa.com)



## Bosch Freak

The 18V Bosch Freak (GDX18V-1800C) is half impact driver, half impact wrench, delivering 1800 lbf·in. (203 N·m) of maximum torque driven by a maintenance-free brushless motor. This tool includes a 1/4 in. quick-change hex-shank holder to secure bits and a 1/2 in. square drive impact wrench for sockets, eliminating the hassle of using hex-shank adapters. The Bosch Performance Control System allows users to adjust tool speed/torque with the push of a button to match the tool to the application. The control system also protects the tool and battery from overheating and overload conditions. The Freak features a soft slim-grip handle and nonslip housing for secure handling, as well as an LED light system. It also has Bluetooth® connectivity, which allows the tool to connect to the free Bosch Toolbox App.



—Bosch Tools, [www.boschtools.com](http://www.boschtools.com)

## Makita 18V LXT Lithium-Ion Cordless Rebar Cutter XCS04

The 18V LXT® Lithium-Ion Cordless Rebar Cutter (XCS04) provides spark-free cutting of reinforcing bars and steel rods. Features of the XCS04 include an adjustable stopper that holds the bar or rod at 90 degrees to the cutting blade, assisting with cutting stability. The cutting head rotates a full 360 degrees for different cutting positions. The tool's brushless motor runs cooler and more efficiently than motors with carbon brushes, ensuring a long service life. Other features include a built-in LED to illuminate the work area and an ergonomic, rubberized pistol-grip handle to minimize worker fatigue. The XCS04 has a maximum cutting capacity of up to No. 5 (5/8 in.) reinforcing bars and cuts a No. 5 reinforcing bar in 2.8 seconds. Users can get up to 233 cuts of No. 5 reinforcing bars with the XCS04Z and one 18V LXT 5.0 Ah battery.

—Makita U.S.A., Inc., [www.makitatools.com](http://www.makitatools.com)

## Cortec MCI-2020 Gel

MCI®-2020 Gel features Cortec's Migrating Corrosion Inhibitor™ (MCI) and is designed to work when proper surface preparation for mitigating corrosion of embedded reinforcing bars cannot be achieved. MCI-2020 Gel is an injectable corrosion inhibitor that provides a dose of corrosion protection to the depth of reinforcement. Once inside the concrete, the inhibitor can move laterally through the concrete along the embedded reinforcement via liquid and vapor diffusion. MCI molecules deposit across metal surfaces, forming a molecular layer that acts as a barrier to corrosive elements such as chlorides and carbonation. MCI-2020 Gel is considered a mixed inhibitor that protects against corrosion at both the anodic and cathodic areas of a corrosion cell. It does not contain secondary amines or nitrites, which together can form carcinogenic nitrosamines. MCI-2020 Gel is also nonflammable and noncombustible.

—Cortec Corporation, [www.cortecvci.com](http://www.cortecvci.com)



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## Aquajet Systems Aqua Centralizer

The Aqua Centralizer can clean and remove concrete, paint, rust, and coatings along sections of tunnels and pipes. It works in conjunction with Aquajet's Aqua Cutter Hydrodemolition robots and Aqua Power Packs, which provide pressure up to 40,000 psi (276 MPa). The Aqua Centralizer includes a 360-degree ring and robotic power head with a 25-degree adjustable lance angle and variable stroke oscillation. The power head offers automatic indexing along the spine rail, and it can be reversed to remove concrete on the outside of pillars and pipes. The modified Aqua Spine that makes up the base of the Aqua Centralizer can span up to 19.7 ft (6 m) between a pair of triple support wheels. Supports feature adjustable caster wheels that are designed for 4.9 to 9.8 ft (1.5 to 3 m) diameter tunnels. For additional reach, the ring and circular power head can be mounted in front of the support wheels.

—Aquajet Systems AB, [www.aquajet.se](http://www.aquajet.se)



  
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## PROJiTECH OnStation 2.0

OnStation 2.0 is a mobile productivity app for roadway workers that provides instant jobsite location, access to plans and design, and a team communication tool that livestreams job-related conversations. With everyone on the project having access to the same project app, OnStation 2.0 enables users to locate and flag an issue and collaborate for a quick resolution. The OnStation platform records the location, users who are engaged, notes, and photos and videos related to the issue. This sortable information is organized by project and can be exported for analysis and long-term record keeping.

—PROJiTECH, [www.onstationapp.com](http://www.onstationapp.com)

## Farwest DCPro Cathodic Protection Power Supply

The DCPro is an advanced cathodic protection power supply that operates at 80 to 90% efficiency and eliminates the need to manually adjust power output for cathodic protection systems; output voltage adjusts automatically in 0.1 amp increments. This rectifier features solid-state switch-mode operation and maintains constant current despite fluctuations in AC power. The DCPro features GFI protection, standard AC and DC surge protection, and over-temperature protection, and it is Electrical Testing Laboratories (ETL) certified. The display, with both analog and digital readouts, is readable even in direct sunlight.

—Farwest Corrosion Control Company,  
[www.farwestcorrosion.com](http://www.farwestcorrosion.com)

## Book Notes

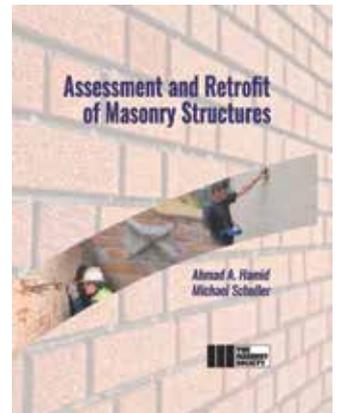
### **Assessment and Retrofit of Masonry Structures**

by Ahmad A. Hamid and Michael Schuller

This practical guide provides background, reference material, and guidance to design professionals, building owners, and contractors on evaluating, testing, and repairing masonry. Construction characteristics of masonry structures, typical material properties, and analytical approaches are included for historic, transitional, and modern masonry construction typologies. The focus of the book is on structural stabilization, strengthening, and retrofit, with maintenance and serviceability items (such as water penetration and cleaning) addressed as subtopics. This book incorporates discussion on the evaluation and retrofit process, site investigation and analysis, retrofit, monitoring, and maintenance. It also includes case studies that highlight technical issues and illustrate the process of developing a rational methodology for different types of masonry assessment and retrofit projects.

*\$180; 462 pp.; ISBN 978-1-929081-60-8*

—*The Masonry Society*, [www.masonrysociety.org](http://www.masonrysociety.org)



## Web Notes

### **CM Labs Wheel Loader Simulator Training Pack**

CM Labs Simulations offers a new Wheel Loader Simulator Training Pack that includes advanced earthmoving techniques as well as guided learning features. The training pack immerses users in a challenging environment that encourages them to change tools depending on the task they need to accomplish. Users learn about bucket/ground interactions and the proper use of the wheel loader's quick coupler, avoiding accidental release of the bucket during operations. During exercises, the training pack offers feedback on crucial metrics such as distance from objects, traction, and terrain height. It also tracks metrics such as height, slope, and standard deviation, and these are rolled up into a single score that updates in real time. This feedback allows users to make the adjustments needed to advance their learning and develop positive habits that will carry over onto real equipment.

—CM Labs Simulations, [www.cm-labs.com](http://www.cm-labs.com)