

## iGX700/iGXV700 and iGX800/iGXV800 V-Twin Engines

Four new Honda V-twin engines, the iGX700/iGXV700 and iGX800/iGXV800, offer commercial construction customers versatile power in compact packages. Available in both horizontal and vertical shaft configurations, these engines feature integrated electronic self-tuning regulator governors, allowing them to adjust power when the load changes. Design features include an integrated cylinder and cylinder head, a hemispherical combustion chamber, forged steel connecting rods, and a 9.3:1 compression ratio. The integrated cylinder and head eliminate the need for a head gasket; and the advanced combustion chamber design is complemented by electronic fuel injection and digital capacitive ignition with variable timing, resulting in excellent fuel efficiency and enhanced operation.

—Honda, [www.engines.honda.com](http://www.engines.honda.com)



## Structural Engineering Library

Structural Engineering Library (SEL) from ENERCALC is an easy-to-use collection of analysis, design, and load-generation apps ideal for all low- and mid-rise engineering projects. The user defines a component type using a simple, fill-in-the-blank form that is linked with the pertinent codes, rules, properties, and formulas. Each app provides immediate recalculations for every change and what-if scenario. Result summaries, sketches, and diagrams refresh instantly for review. Meanwhile, ENERCALC's Central Project Manager collects all calculations in one location. Users can create divisions to group calculations and add PDF, DOC, XLS, and scanned documents. SEL apps are available through a monthly subscription or a perpetual license.

—ENERCALC, [www.enercalc.com](http://www.enercalc.com)

## V-Series Harnesses

MSA Safety's V-Series line of equipment comprises three harnesses designed to provide fall protection. The V-FORM, which is the base model, includes a patent-pending racing-style buckle, athletic cut, and pull-down adjustment, enhancing comfort and enabling wearers to focus on the job at hand. In addition to the standard features, the V-FIT mid-range model includes shoulder pads that conform to worker movement and patented leg straps that distribute webbing comfortably across the legs. The V-FLEX is MSA's premium model and, in addition to the features that the others offer, has vented pads for cooling and a patent-pending hip juncture that rotates with the worker to provide mobility while reducing drag.

—MSA Safety Incorporated, [www.msasafety.com](http://www.msasafety.com)



## Single Clean

Single Clean™ from Professional Products Direct is a water-based, synthetic muriatic acid that can be used to remove efflorescence and clean cementitious substrates. Its chemical structure mimics muriatic acid in function but minimizes the harmful by-products and side effects of its use. Single Clean removes rust discoloration and efflorescence from brick, concrete, stucco, pavers, and other porous stone-based materials without changing the color, texture, or integrity of the original material. It is a zero-VOC, low-odor, nonflammable cleaner that comes in 1 or 5 gal. (3.8 or 19 L) units containing either a concentrate or a ready-to-use product.

—Professional Products Direct, [www.professionalproductsdirect.com](http://www.professionalproductsdirect.com)

# Products & Practice

## KINSHOFER Multi-Quick Processors

KINSHOFER's Multi-Quick Processors (MQPs) offer multiple jaw options, including ones for primary demolition of heavy concrete structures, concrete decks, and a mixture of concrete and steel. With the company's DemaLink™ system, jaws can be changed out in less than 10 minutes. Only one pin must be manually removed from the attachment; the other two pins are removed hydraulically from the cab. In addition, the cylinders in the MQPs use four chambers instead of two—what KINSHOFER has dubbed their DemaPower™ cylinder technology. This improves the power-to-weight ratio, allowing the MQPs to exert up to 25% more power from a smaller attachment. The MQPs are suitable for 18 to 65 ton (16 to 59 tonne) carriers.

—KINSHOFER, [www.kinshofer.com](http://www.kinshofer.com)



## CHAMELEON Pigment-Dosing Machines

The CHAMELEON®-G, CHAMELEON®-GT, and CHAMELEON® Bagging System from the Davis Colors™ division of Venator are PC-operated, automatic pigment-dosing machines used to produce colored ready mixed concrete. All three machines work in combination with Venator's GRANUFIN® pigment technology—a range of spray-dried microgranules optimized for stability and dispersibility. The CHAMELEON-G and CHAMELEON-GT are delivered in secure, weatherproof containers that enable easy outdoor use. Compact and standing at around 9 ft (2.7 m) high, each machine is easily accessible, which makes loading and refilling safer to manage. The machines function without the use of air-operated actuators or valves, reducing the number of machine parts that must be maintained.

—Davis Colors, [www.daviscolors.com](http://www.daviscolors.com)



## Super Lance 3000

The Super Lance 3000, which integrates with Aquajet's Aqua Cutter hydrodemolition robots, is used to direct high-pressure water at a surface. Applications include removal of deteriorated concrete or removal of concrete to a predetermined depth without risk of microfracturing or damage to underlying reinforcing bar. The Super Lance 3000 can be used for any pressure up to 43,500 psi (3000 bar), reducing the need to switch lances. Standardized ends allow components to attach in any direction, and uniform threads and seals minimize the need for adaptors. The lance is equipped with Aquajet's unique ceramic nozzle, which is specifically designed for hydrodemolition applications and will last 300 to 350 hours, depending on the water quality. Standard on current Aqua Cutter robots, the Super Lance 3000 can also be retrofitted to older models.

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



## SupersList Project Tracking Software

SupersList™ Project Tracking Software tracks progress on construction projects. Because it is available on mobile devices, users can access and update data whether in the office or on a jobsite. The software works in real time, so updates to project plans, including photographs from the field, become immediately available to the whole project management team. Users can also create a two-week look-ahead and send one-click e-mail alerts. SupersList features seamless integration with Microsoft Project, so changes made to project plans may be synchronized between the two.

—SupersList, [www.superslist.com](http://www.superslist.com)

## Products & Service Literature & Videos

### ***EFFC/DFI Guide to Support Fluids for Deep Foundations, Edition 1*** by Deep Foundations Institute and the European Federation of Foundation Contractors

This guide, published jointly by Deep Foundations Institute (DFI) and the European Federation of Foundation Contractors (EFFC), is the work of a 47-strong task group comprising contractors, suppliers, consultants, and leading academics. It discusses support-fluid practice and aims to improve existing design, testing, and practices for deep foundation elements: bored piles (drilled shafts), barrettes (LBs), and diaphragm wall panels. It is available for free download at [www.dfi.org](http://www.dfi.org) or [www.effc.org](http://www.effc.org).

—Deep Foundations Institute, [www.dfi.org](http://www.dfi.org); European Federation of Foundation Contractors, [www.effc.org](http://www.effc.org)

## Web Notes

### **PCA Podcast Series: Hard Facts**

The Portland Cement Association (PCA) launched a podcast series titled “Hard Facts” that examines how to pay for the nation’s transportation infrastructure. Money-saving options are explored through interviews with members of Congress, the administration, and industry. Early episodes feature interviews with PCA President and CEO Michael Ireland, MIT Concrete Sustainability Hub Executive Director Jeremy Gregory, and Delaware Senator Tom Carper. More on the podcast can be found at [www.cement.org/newsroom/hard-facts-podcast](http://www.cement.org/newsroom/hard-facts-podcast).

—Portland Cement Association, [www.cement.org](http://www.cement.org)

## Book Notes

### ***Cathodic Protection for Reinforced Concrete Structures*** by Paul M. Chess

This book—written for specialist contractors, consultants, and owners of corrosion-damaged structures—examines the corrosion process in reinforced concrete and international experience with cathodic protection (CP). It discusses the differences in the application of CP with the stark dichotomy in its success and failure, as well as ways in which its performance can be improved in future installations.

**\$70; 100 pp.; ISBN: 9781138477278**

—CRC Press, [www.crcpress.com](http://www.crcpress.com)