

MARCH 2021

# concrete openings

THE OFFICIAL MAGAZINE OF  CSDA™



## CSDA Contractor Scans for Post-Tensioned Cables in Paradise

Use Code **A26**  
to Save on Registration



[WWW.CONCRETEOPENINGS.COM](http://WWW.CONCRETEOPENINGS.COM)

# CUSTOMIZE IT



## CORING DONE YOUR WAY

Don't let your bits tell you what hole to drill, let your application tell you what bits to get! Diamond Products offers hundreds of options for customizing your core drilling. More than ten quality grades to choose from and eight different segment styles allows you to create the right combination for your unique job.

There are even more options for customizing your core rig. Dozens of motor, extra-length masts, bases and accessories give you **thousands** of different ways to create your own drilling system.



Diamond Products Ltd.  
333 Prospect St.  
Elyria, OH 44035 U.S.A.  
800-321-5336  
diamondproducts.com



**MATTHEW FINNIGAN**  
*CSDA President*



It has been said that we live in interesting times. I can assure you that my term as President of CSDA has been an interesting time – especially being faced with a pandemic that severely curtailed our ability to meet in person—including the unfortunate cancellation of two annual conventions, in-person trainings as well as in-person Board and committee meetings. Despite all of this, CSDA has moved forward in remarkable fashion, and I am delighted with the work done by so many members during the past two years. I am especially excited about the release of our new online “Cutting Edge” training program and the successful shift to online meetings that have enabled us to keep moving forward despite not being able to meet in person. Of course, our terrific staff deserves much recognition for coordinating this process and keeping us moving forward and rising beyond the times. Thank you for the part you have played in this. And last, but not least, I want to express appreciation to our manufacturers who support the industry so well day in and day out. You all make what we contractors do possible, and on behalf of all of us, I thank you.

As we hopefully soon move beyond the restrictions we have lived under during the past year-plus, we have much to anticipate. We will soon resume our 101 and 201 training classes, as well as our GPR and polishing classes. We will again have meetings in various locales around the country that will also include the ability to participate online. We look forward to resuming our annual convention, and to continuing to lead the cutting, coring, imaging and polishing trades with world class practices, training and professionalism. In brief, CSDA has much to offer, and we look forward to moving forward together in pursuit of our goals.

In closing, I hope this finds you and those close to you healthy and safe, and I look forward to the time when we again gather as the CSDA family. It has been a privilege to serve as your President and I thank you for the honor. The journey has been a true joy, notwithstanding the unique challenges we’ve encountered. And now is the time to recognize our new President, Mike Orzechowski of Diteq. Mike has loyally served CSDA for many, many years and I am certain he will continue to move CSDA forward. Stay tuned, for the best is yet to come!

Cheers.



Husqvarna®

# LEVEL UP WITH THE NEW PRIME™ SYSTEM



Whether you're an experienced concrete cutter or a newcomer to the game, you'll appreciate the reliable power and versatility provided by the all-new PRIME™ equipment from Husqvarna.

It combines the simplicity, user-friendliness and low weight of electrical systems with the advantages of hydraulic systems. All of which adds up to you getting more done in a day at work.

The new generation of PRIME™ equipment, built around the all-new, intelligent and extremely sturdy Husqvarna PP 70 power pack, has all of Husqvarna's knowledge and experience built in. To learn more contact your local Husqvarna representative.

**800.288.5040**

  
**PRIME™**

Powerful.  
Revolutionary.  
Intelligent.  
Modular.  
Electric.

[husqvarnacp.com](http://husqvarnacp.com)

[hpcustomer.service@husqvarnagroup.com](mailto:hpcustomer.service@husqvarnagroup.com) Phone: 800-288-5040

Copyright © 2021 Husqvarna AB (publ.). All rights reserved. Husqvarna is a registered trademark of Husqvarna AB (publ.).



## CSDA OFFICERS

President, Matthew Finnigan  
National Concrete Cutting Inc.  
matthewf@nationalconcretecuttinginc.com

Vice President, Mike Orzechowski  
DITEQ Corporation  
mikeo@diteq.com

Secretary/Treasurer, Kellie Kimball  
Holes, Incorporated  
kellie@holesinc.com

Past President, Jack Sondergard  
Central Concrete Cutting, Inc.  
jacksondergard@sprynet.com

Executive Director, Erin O'Brien  
Concrete Sawing & Drilling Association  
erin@csda.org

## CSDA BOARD OF DIRECTORS (Terms expiring 2021)

Ty Conner  
Austin Enterprise  
tconner@austin-enterprise.com

Mark DeSchepper  
Echo GPR Services  
mark@echogpr.com

Jami Harmon  
GSSI  
harmonj@geophysical.com

Bruce Ferrell  
PROSOCO  
bruce.ferrell@prosoco.com

Greg Lipscomb  
Diamond Products  
glipscomb@diamondproducts.com

## CSDA BOARD OF DIRECTORS (Terms expiring 2022)

Bill Fisher  
National Research Company  
bfisher@nationalresearchcompany.com

Donna Harris  
Concrete Renovation  
donna.cri@sbcglobal.net

Jeff Keeling  
Brokk, Inc.  
jeff.keeling@brokkinc.com

Ryan McBride  
Polished Concrete Consultants  
mcbride.ryan@me.com

David Perkins  
Hilti, Inc.  
david.perkins@hilti.com

Kevin Warnecke  
ICS, Blount Inc.  
kevin.warnecke@blount.com

## CONCRETE CASES



**Renovating a Historic Bridge While Keeping Citizens Online**



**CSDA Contractor Scans for Post-Tensioned Cables in Paradise**



**Two CSDA Contractors Work Together to Fill the Void**

## CONCRETE OPENINGS MAGAZINE

Official Magazine of the Concrete  
Sawing & Drilling Association  
Volume 30, Issue 1  
ISSN: 1093-6483

*Concrete Openings* magazine is published by O'Brien International, Inc., four times each calendar year in March, June, September and December. Editorial contributions are welcomed and advertisements are encouraged. Please contact the Concrete Sawing & Drilling Association  
646 2nd Ave S  
St. Petersburg, FL 33701  
Tel: 727-577-5004  
Fax: 727-577-5012  
WWW.CSDA.ORG

Magazines, newspapers and private individuals are welcome to reproduce, in whole or part, articles published herein provided that acknowledgements are made in the following manner: "Reprinted courtesy of the Concrete Sawing & Drilling Association, *Concrete Openings* magazine, Issue Date."  
No alterations should be made in the text of any article.

### PUBLISHER

O'Brien International

### EDITOR

Erin O'Brien

### CONCRETE CASE CONTRIBUTORS

Mark DeSchepper  
Ryan Hammer  
Landon Leuders  
Richard Semidey

### EDITORIAL REVIEW COMMITTEE

Tim Beckman  
Pat Stepanski  
Doug Walker

The information and recommendations in this magazine are provided for use by fully qualified, professional personnel. The Concrete Sawing & Drilling Association and the publisher disclaim any responsibility as to their use by readers and shall not be liable for damages arising out of the use of the foregoing information.

All bylined articles published in this magazine represent solely the individual opinions of the writers and not necessarily those of the Concrete Sawing & Drilling Association.



## CONTENTS

- 10 Covid Resources**  
The Covid-19 Vaccine At Work: Legal Considerations
- 12 Employment Central**  
How Temporary Construction Labor  
Can Benefit Your Business
- 18 Core Health**  
Exposing Inflammation and Saving Your Brain!
- 20 Safety Counts**  
Your Reputation is at Stake: Responding to an OSHA Press  
Release or Catastrophic Incident
- 30 The Business of Business**  
How to Fight Against Spam and Robocalls
- 32 Tech Talk**  
Care and Maintenance of Hydraulic Hand Tools  
Used in Wet Locations
- 34 Industry Bits**
- 40 Certification**
- 42 Membership**
- 44 Calendar**
- 48 Director's Dialogue**





## Your Trusted Partner in GPR Concrete Imaging

GSSI's industry-leading GPR systems for concrete inspection have been field-proven for more than three decades. Combined with our best-in-class training and technical support, the StructureScan™ Mini XT is the perfect solution to safely and efficiently scan concrete surfaces.



[www.geophysical.com](http://www.geophysical.com) • [sales@geophysical.com](mailto:sales@geophysical.com)



# Renovating a Historic Bridge While Keeping Citizens Online



**B**uilt in 1912, the historic Eighth Street Bridge in Sioux Falls, South Dakota is a concrete deck bridge that commuters, pedestrians, cyclists and joggers alike use to cross over the Big Sioux River. The beautiful 243-foot long triple-arch concrete deck bridge was added to the National Register of Historic Places in 1993 and has not seen renovation since the 1970s. In March of 2020, Sioux Falls began a planned reconstruction of the unique soil-filled bridge that was planned to take about a year and a half. General Contractor Journey Construction was awarded the rebuilding of the bridge in the 1970s and again in 2020. When Journey Construction realized that they would need access to the entire bridge, including the areas holding the high-speed cable, they reached out to internet, phone and cable company CenturyLink.

CenturyLink quickly realized this job was going to require out-of-the-box ideas if they planned to renovate this bridge and keep the entire South Dakota city online during the construction. CenturyLink reached out to Midwest consulting firm Terra Technologies, Inc., based out of Denver, Colorado, to find a way that work could progress in a manner that would not interrupt any communications to Sioux Falls. Local to Sioux Falls, CSDA member Northwest Concrete Cutting and Crane Service was contacted by Terra Technologies, Inc. in February 2020 regarding some simple flat sawing along the historic Eighth Street Bridge. Their goal was to erect a temporary cable suspension bridge in order to raise the existing fiberoptics and communication lines that ran 8-feet beneath the pavement so Journey Construction would have working room to complete the remainder of the project and the citizens of Sioux Falls would not have any interrupted communication.



As the project progressed, Terra Technologies realized that they needed more than just concrete cutting. They reached out looking for contacts for other aspects of the project, including certified welding services, crane services as well as additional concrete cutting. It was at this time that Northwest Concrete Cutting and Crane Service became a turnkey subcontractor for Terra Technologies and a key figure in all aspects of the Eighth Street Bridge project.

Northwest was responsible for the initial slab sawing to prepare for the demolition and removal of the existing pavement that ran across the bridge. The pavement had to be cut and completely removed to prepare for the proper installation of new concrete. Each slab measured 30 feet long by 15 feet and 8 inches thick. Two slabs were removed, totaling 90 feet of total cutting and 45,000 pounds of concrete. After the existing pavement was removed, Northwest then formed and poured the two suspension tower footings that were 14 feet by 14 feet and 30 inches thick.

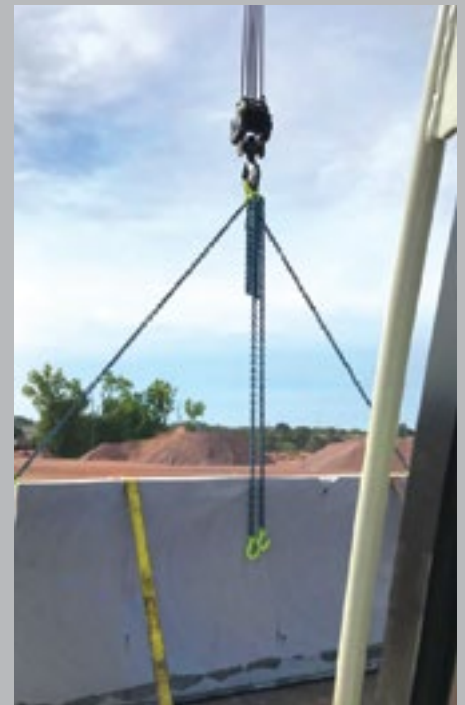
Once the tower footings were completed, Northwest had to pour the “deadman” weights for the suspension bridge. These weights were located at opposing ends of the bridge and were



7 feet thick by 27 feet long and a total of 14 feet wide. Each individual weight weighed about 400,000 pounds and all of these structures were temporary, needing to be removed once the backfill for the bridge was completed. The preparation alone was already turning out to be quite the undertaking.

After all the footings and deadman weights were poured, Terra Technologies ran into a new issue. The towers that suspended the cables on each side of the bridge were supposed to come completely assembled and ready for erection, but to everyone's surprise and dismay, they did not. Once again, Northwest Concrete Cutting and Crane Service had the experience, workforce and tools to help solve these new challenges.

Northwest supplied four certified welders who assembled two 35-foot tall by 10-foot wide towers made of hollow structural section (HSS) steel. After the towers were assembled, they then became in charge of the delivery and erection of the towers. Northwest Concrete Cutting and Crane Service supplied semitrucks and trailers, a 90T mobile hydraulic crane, certified riggers/signalmen and certified welders to haul and erect each tower. After the towers had been erected, it was business-as-usual for Terra Technologies' responsibilities on the project. As soon as the cables were suspended, Journey Construction could continue working on the underground and structure work that needed to be completed.



As exciting as it was to finalize all the groundwork for this project, completion meant that it was time to bring everything back down from the suspension bridge — communication lines had to come down, as well as the suspension bridge, towers, tower footings and the massive 400,000 pound deadman weights. Northwest once again brought their 110T mobile crane onsite, as well as certified riggers and signalmen to help dismantle and load the towers onto Terra Technologies' semitrucks and trailers. As a safety precaution, Terra Technologies was adamant about not allowing more than 60,000-pounds on the bridge deck in any one area.

After the towers were disassembled, Northwest was responsible for removing each of the 400,000-pound deadman weights. Hydraulic hammers could not be used because of the sensitivity of the fiber optic cables and the condition of the bridge itself. After some major planning, it was decided to lay 2-inch PVC pipe every 2-foot 8-inches on the bottom of the anchors to create 40,000 pound pieces once cut with the wire saw. Imbed lifting points were designed so that once cuts were made, they could be lifted from the top of the deadman. A Diamond Products WS25 Hydraulic Wire Saw and a Husqvarna CS10 High Cycle Wire Saw were used to cut the two deadman weights into twenty equal sections, upon which the sections were loaded onto a 110T mobile hydraulic crane and disposed of at the recycler where the pieces were unloaded with a 55T mobile crane.

Standard PPE was used during this bridge renovation, including steel toe boots, high-visibility clothing, gloves, hearing protection, safety glasses and hard hats. Landon Lueders of Northwest Concrete Cutting and Crane service said about this job, "As a company, I am proud of the fact that we are able to be of such value to our customers. The original inquiry started as a simple flat sawing project and then grew into something much more. It is a testament to our ability to service customers from start to finish, from concrete sawing and demolition to pouring footings, foundations, certified welding, crane service, steel erection and trucking. At Northwest, we are truly the definition of team players. Everyone is working towards the same goal of finishing a safe, on budget and on schedule project that not only we can be proud of, but our city can be proud of as well."

Lueders says he believes Northwest was chosen for their impressive track record with other projects, as well as their extensive list of services they offer. For this restoration, forward thinking and planning increased the productivity and allowed the team to finish within budget. Having placed the PVC pipe and pick points before the deadman were poured prevented the need for any core drilling to run the wire saw through, which saved the project time and money. Northwest had the right equipment, manpower and expertise to help bring the historic Eighth Street Bridge project to fruition while also keeping the citizens of Sioux Falls connected.

REVIEW AND COMMENT ON THIS ARTICLE AT:  
[WWW.CONCRETEOPENINGS.COM](http://WWW.CONCRETEOPENINGS.COM)

## COMPANY PROFILE

Northwest Concrete Cutting & Crane Service is a family owned and operated business based out of Sioux Falls, South Dakota. They service a 400-mile radius of the Sioux Falls market, but will travel anywhere in the country if their customers need their experience and expertise. They have been in business for 31 years and currently employ roughly 40 people. They have 15 full-service concrete cutting service trucks, three mobile hydraulic cranes ranging from a 55-ton all the way up to a 300-ton, semi-trucks and trailers, dump trucks, high cycle wire saws and medium to heavy excavating equipment. Their broad range of services include, but are not limited to: concrete cutting/sawing, concrete coring, concrete grinding, shot blasting, wire sawing, wall sawing, flat sawing, engineered demolition, selective demolition, concrete pouring, pre-cast erection, steel erection, certified welding, crane service, rigging service, trucking and select general contracting jobs. Northwest Concrete Cutting & Crane Service is here to help everyone achieve the same goal of a safe and successful project. They have been a CSDA member since 2015.

## RESOURCES

### General Contractor

Terra Technologies, Inc.

### Concrete Cutting & Scanning Contractor

Northwest Concrete Cutting and Crane Service  
Landon Lueders

**Email:** LandonL@NorthwestConcreteCut.com

**Tel:** 605-334-4700

### Methods Used

Slab Sawing, Wire Sawing



# The Covid-19 Vaccine At Work: Legal Considerations

By: Jill R. Cohen, Esq.



Over the past 12 months, COVID-19 has changed so much about how the world operates. During that time, people and businesses have worked to adapt to the “new normal”: wearing masks, social distancing, installing plexi-glass and other barriers, sanitizing hands and surfaces and more. Researchers and scientists have raced to develop a vaccine that promises to provide some protection. Finally, as 2020 finally came to a close, the first doses of the COVID-19 vaccines started to roll out to the American public.

With the vaccine increasingly available, and a promised 300 million doses available in the United States by this summer, we all now must adapt to a new, new normal—a world in which there is a vaccine available to mitigate the worst risks of this pandemic.

The development of the vaccine, however, is not a panacea and does not ensure that the population all gets vaccinated. Many are unable, ambivalent, or reluctant to get vaccinated, for a variety of reasons that are beyond the scope of this article. Given this, many employers are grappling with the question of how to address the COVID-19 vaccine at work. Should employers require that employees get vaccinated, and can they do so? Should they just incentivize employees to get it? Or strongly encourage it? Or none of the above? What factors and legal issues should be considered? Do employers have an obligation to their workforce, customers or third parties to ensure their workplace is as safe from COVID-19 as possible? These are questions on the minds of nearly all employers as we plunge into 2021.

As an initial matter, there is some precedent for these questions. Employers have addressed similar questions with regard to the flu vaccine over the years, and in particular during the swine flu seasons of 2009, and another record flu year of 2018. The Equal Employment Opportunity Commission (EEOC) has long addressed these issues of mandatory vaccines, throughout its various guidances. The EEOC has held that employers generally may require employees to receive vaccinations as a required term and condition of employment. This is not a blanket allowance, and is subject to certain exceptions for employee disabilities and religious objections to vaccines, and also subject to any applicable state or local laws, or industry requirements. For instance, the Americans with Disabilities Act (ADA) and Title VII of the Civil Rights Act

of 1964 (Title VII) provide the main source of requirements that an employer accommodate an employee's disability or sincerely held religious beliefs, respectively, which prevent the employee from being vaccinated.

One industry requirement that often comes into play in the construction arena is found in any applicable Collective Bargaining Agreement (CBA). Any employer seeking to impose a mandatory vaccine upon its construction workers must ensure there is no prohibition on such in any governing CBA. As CBA become subject to renegotiation and renewal, mandatory vaccines may well become a hot topic subject to negotiation.

Another factor that employers in the construction industry would do well to consider is the National Labor Relations Act (NLRA). Indeed, the NLRA most likely requires employers to bargain over any vaccine programs affecting unionized workers. Moreover, the NLRA prevents employers from infringing upon "protected concerted activity." In theory, organizing to oppose a mandatory vaccine program could include such concerted

activity. Thus, construction industry employers should be mindful of the requirements and limitations imposed by the NLRA when considering a vaccination policy.

Workers compensation laws also come into play when considering the potential for mandatory vaccine programs. Some states' workers compensation laws, such as New Jersey, have legislated a rebuttable presumption that an employee who contracts COVID-19, did so while at work. This enables employees to obtain workers' compensation benefits for having contracted COVID-19, unless the employer successfully rebuts the presumption and demonstrates that the employee likely contracted it somewhere other than work. Likewise, if an employee has an adverse reaction to the vaccine, and the vaccine was mandated by the employer, this scenario too could give rise to a workers' compensation claim.

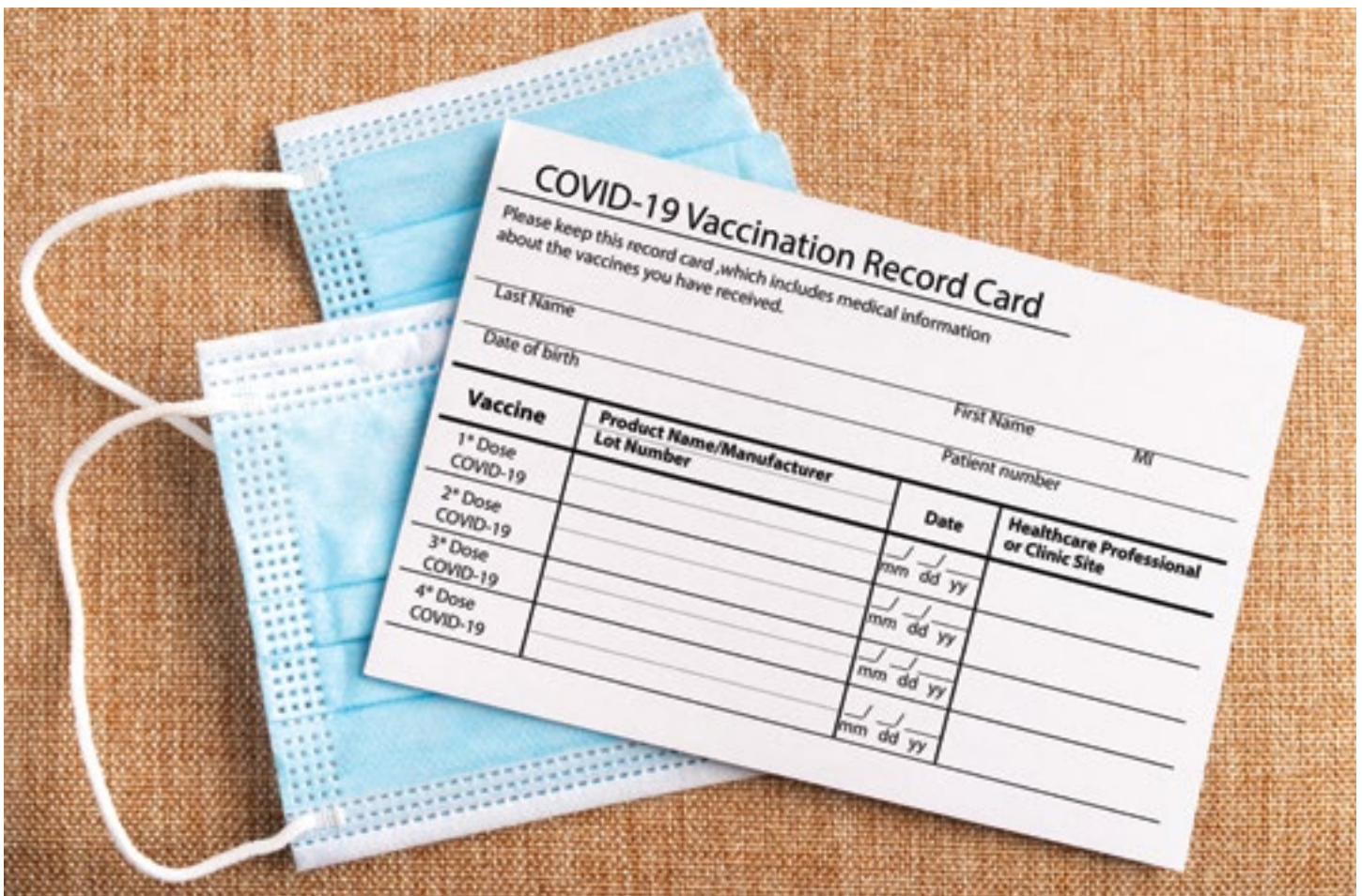
The Occupational Safety and Health Act (OSH Act) is another law that may come into play for construction employers when

considering a vaccine COVID-19 program for workplaces. Under the OSH Act, employers can be liable for failure to provide a safe workplace. Prior guidance from OSHA regarding the flu vaccine suggests that it would support a mandatory vaccine program at work, in order to ensure a safe workplace, however subject to certain limitations.

The above list of factors to consider is illustrative but not necessarily inclusive. If employers are inclined to mandate or even incentivize vaccines for their employees, they should work closely with their legal team to ensure that the program complies with applicable laws and regulations.

---

*Jill Cohen is a member of the law firm Eckert Seamans Cherin & Mellott, LLC's Princeton, NJ office and divides her practice between complex commercial litigation and employment litigation. The opinions expressed in this article are for informational purposes only and do not constitute legal advice.*





## How Temporary Construction Labor Can Benefit Your Business

By Jenay Sellers, GigSmart

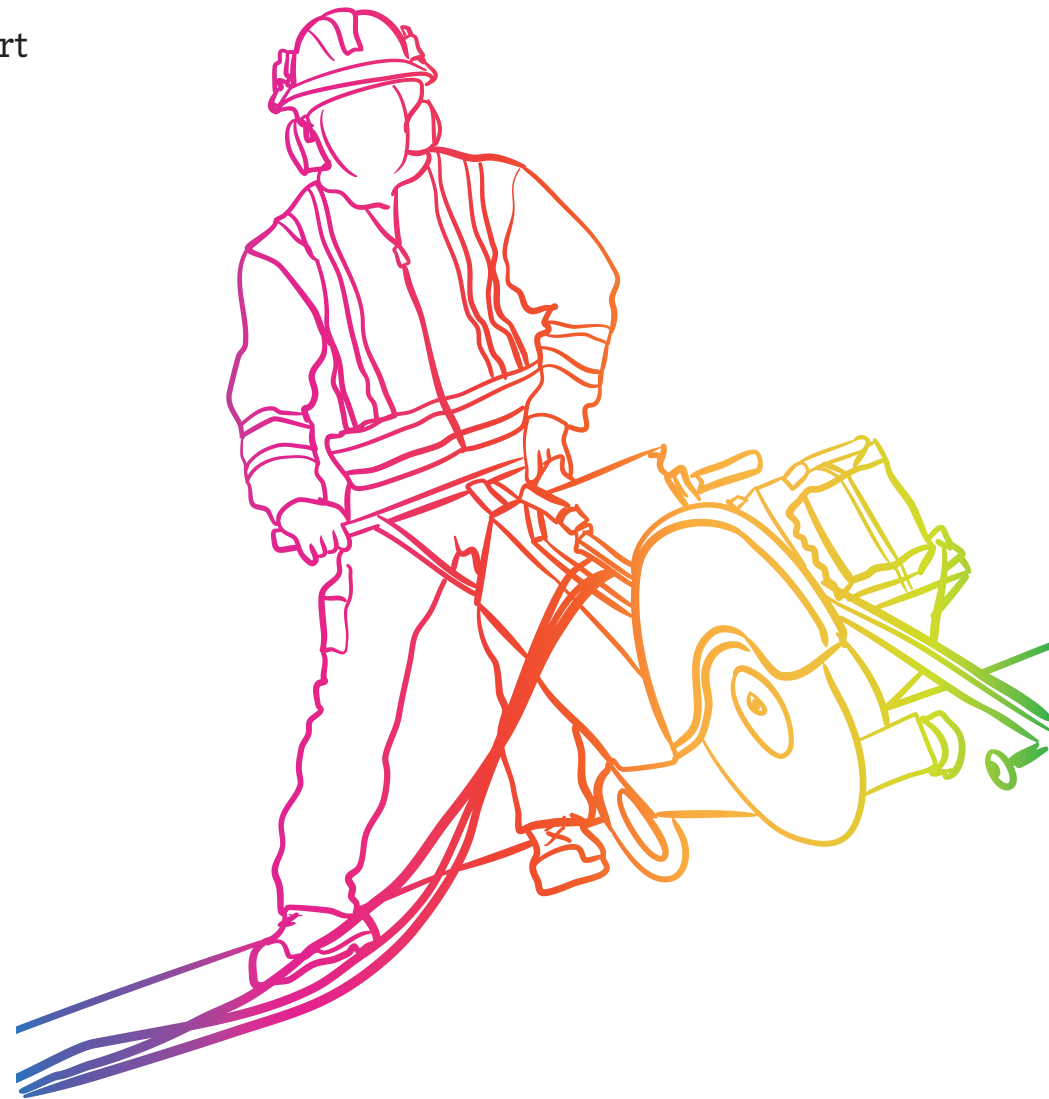
**W**hile it's vital to have full-time employees, fluctuations in demand for your construction services can make temporary labor a necessity. Not only can supplementing your workforce with temporary workers give you access to potential talent with skills you may not have access to otherwise, but it will help you save money during your slower times. Using temporary workers gives you the control to hire as many additional workers for your crew as needed, especially when business is booming. Let's dive into the ways supplementing your staff with temporary construction workers can significantly benefit your business.

### KEEP YOUR FULL-TIME EMPLOYEES HAPPY

Temporary construction workers provide permanent crew members the support they need to be successful while preventing them from being overworked. According to the ADP Workforce Vitality Index report, the construction industry has a national average turnover rate of 58.4%. The top reason employees quit? Forbes says it's from being overworked. Save yourself time, money and a lot of stress by supporting your full-time staff via the addition of temporary workers.

### QUICKLY SCALE CONSTRUCTION CREWS BASED ON YOUR PROJECT NEEDS

Hire workers based on the demands of each project. Rather than having too many full-time employees on standby, hire temporary workers to help with larger projects or projects that have tight timelines. If you aren't already, include temporary workers as a line item on your project bids. As you're providing estimates for work, or evaluating a potential commercial or residential construction project, consider not only the type



of work that needs to be done, but who you have on staff to complete it.

By supplementing your crew with flexible labor, you can easily offer more 'hands on deck' to get projects done to completion on time (or even ahead of schedule). Temporary labor makes it easy to scale your workforce, without the unfortunate downside of having to dismiss or let go full-time crew members once projects are complete. By using an agile crew, you can save money, meet deadlines and satisfy your clients.

### ACCESS WORKERS WITH SPECIALIZED SKILLS

Since every project is different, you may run into instances when you don't have a crew member with the specialized expertise needed for the job. Using temporary labor gives you a way to leverage specialized workers for short-term work. In addition, you may gain other potential advantages by sourcing temporary workers with specialized training or certain equipment. Instead of sourcing the

expertise or tools required to complete the job, save yourself some overhead by requiring what's needed as a prerequisite for your next temporary hire.

Consider all of the aspects of a potential construction project. Oftentimes various crews are needed for very specific phases or tasks. Break your bid up into its individual components and identify the portions where temporary labor can be utilized. Combined with your timeline and budget, you'll be able to utilize a fluid mix of full-time crew members and independent contractors to reduce overhead while giving you a highly skilled crew, specialized in delivering the particular services that are needed to complete your project.

#### "TRIAL RUN" SPECIFIC EMPLOYEES

Have you ever made the unfortunate decision to hire someone who was not a good fit? This can be expensive and resource intensive. Hire with 100% confidence by using temporary labor as an additional way to easily vet candidates. Think of it as one more step in your full-time interview process.

You can reduce your risk by "trying" individuals to confirm they actually have

the skills you require and are capable of completing the job. By testing the waters with a larger selection of temporary crew members, we're hopeful you'll have a few superstars you may want to retain — on a repeat basis or even permanently.

#### FIND QUALITY, VETTED HOURLY CONSTRUCTION WORKERS

Many construction firms say they continue to struggle with labor shortages, especially for skilled laborers, according to a new workforce survey from the Associated General Contractors of America and Autodesk.

Robert, owner of High End Construction said, "One of our biggest challenges was finding vetted, background checked workers on short notice. I struggled with the inability to communicate with temporary workers, the inconsistency of Craigslist and the incompatibility and high price points of posting on job boards."

There are many resources you can access to find a pool of pre-qualified, vetted, motivated, and reliable workers at a moment's notice. After experiencing challenges with

other staffing options, High End Construction turned to GigSmart Get Workers to locate skilled temporary workers on a regular basis. With full functionality from a mobile device, Robert finds, hires, and pays workers – all without having to leave the job site.

Through GigSmart's Get Workers app, workers are rated and reviewed, allowing you to select the best workers for the job. The best part is all eligible workers hired through the GigSmart platform are insured, which means potential accidents that might happen on-site won't affect your business' insurance policy or raise your premiums.

#### About GigSmart

*GigSmart is a staffing company focused on providing modern solutions to meet the needs of a rapidly evolving economy. GigSmart's apps, Get Workers and Get Gigs, connect businesses and residential users looking for labor with local workers. The apps are available in all 50 states serving industries including construction, manufacturing, food service, delivery services, transportation, retail, customer service, and professional services.*



"The Vacuworx equipment has helped us on a lot of different jobs...Our guys like the new equipment, it has saved some backs and really sped things up."

— Bennett Jones,  
Advanced Concrete Sawing

## AHEAD OF THE GAME

Our customers say it best. They put our systems to the test where it counts, on the job. They know what is important, and Vacuworx delivers every day. From the most reliable lifting systems to the best service and support in the industry.

FASTER. SAFER. SMARTER. That's the Vacuworx Advantage.

918-259-3050 | [VACUWORX.COM](http://VACUWORX.COM)

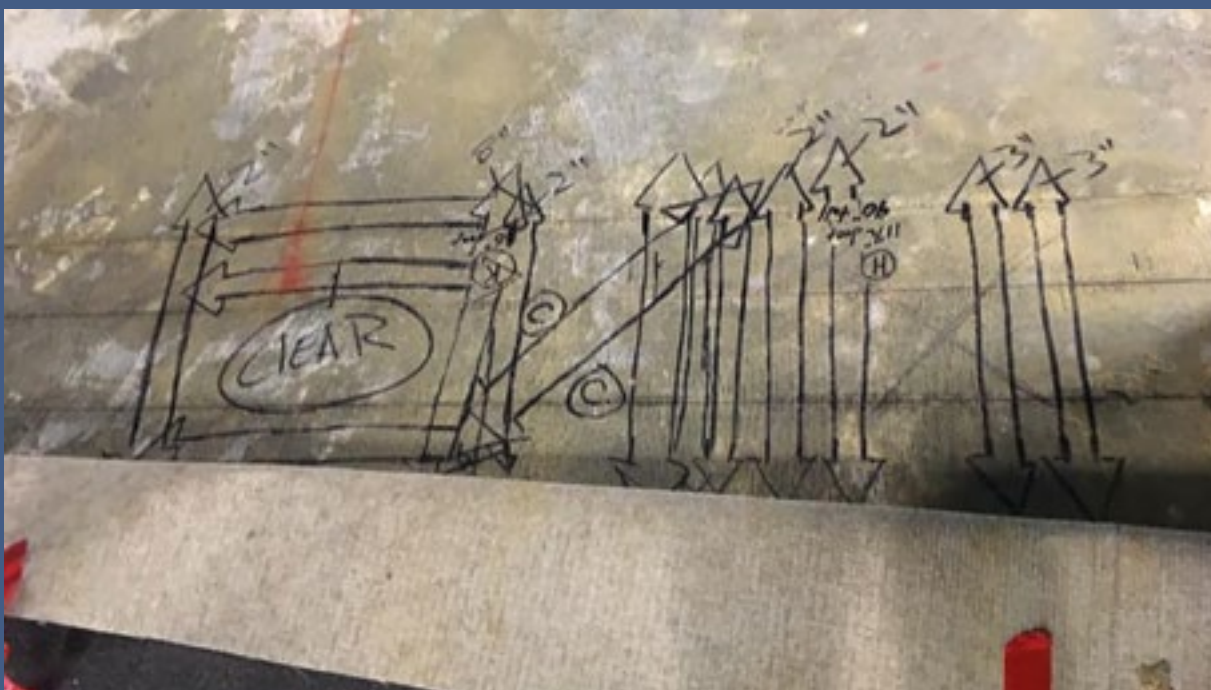
# VACUWORX®



# CSDA Contractor Scans for Post-Tensioned Cables in Paradise



Imagine there are two armored tanks driving in opposite directions with a cable tethered between them. One could only imagine the possible damage and injury that could come from cutting a cable with that much tension on it. Post-tensioned concrete traditionally has steel cables or rod tendons running through the concrete. These cables are meant to hold the compressed concrete to offset the potential stress the concrete may face during construction and use. The cables are installed into ducts after the concrete has been placed and cured. One side of the cable will be anchored, and contractors will apply tension from the other end. This allows the structure to support much larger loads than pre-tensioned structures. It's no surprise that these cables are under an enormous amount of pressure. When renovation occurs on these structures, it is a contractor's utmost concern to avoid an unintentional cut of one of these cables. Accidentally cutting a cable can result in it whipping around and not only destroying the integrity of the building, but also killing anyone in its path.





Right Way Drilling and Scanning LLC, located in Tamarac, Florida, was contacted by General Contractor Miguel Davila to use Ground Penetrating Radar (GPR) to scan an area that was going to later be cut in order to run an electrical line for a floor box for the Paraiso Bay condominiums. They were specifically looking for post-tensioned cables so that Davila would not have to worry about the inevitable expensive repairs or possible bodily injury to operators if a post-tensioned cable was inadvertently cut. As the older and less popular option of using X-ray to scan concrete requires access to both sides of the slab and does not determine the depth of any features inside of the slab, GPR scanning was the best choice as it only requires access to one side of the slab and quickly determines the depth of any features inside of the concrete. Richard Semidey, owner and operator of Right Way Drilling and Scanning was happy to get this job done, and even more pleased that it was taking him to Midtown in beautiful Miami, Florida.

Using a Hilti PS 1000, Semidey scanned the concrete to locate the post-tension cables in order to see how deep they were embedded in the concrete slab. Once he was sure of the depth, he marked the Husqvarna Quick Cut saw blade that was being used to cut a small trench for the electrical line. The trench was a 15-foot line measuring 2-feet wide by 2-feet deep with a single core drill hole at the end to contain the power box. The same process was used to core drill a single 5-inch hole with a Diamond Products Weka DK52. Semidey was sure to wear a face shield, respirator and all proper PPE during the concrete cutting and drilling. He also needed to use portable water supplies as there was no available water source at the job site.

Semidey was proud to get the job completed on time and within budget. He alone performed the GPR scan, the trench cut and the core drilling for this project. He went on to say, "I am very satisfied with how everything turned out. We are known for taking pride in our work and always finding a solution."

CSDA contractors are known for their quality, professionalism and, in this case especially, service offerings. One contractor was able to complete the GPR scanning, sawing and drilling, saving the GC time and money. Right Way Drilling and Scanning was the Right Choice for this job!



## COMPANY PROFILE

Right Way Drilling and Scanning LLC is located in Tamarac, Florida and been operating since early 2019. They currently have three trucks and four employees and offer concrete sawing and drilling, GPR scanning and utility locating. They have been a CSDA member since 2020.

## RESOURCES

### General Contractor

Miguel Davila

### Concrete Cutting & Scanning Contractor

Right Way Drilling and Scanning LLC

Richard Semidey

**Email:** Richard@RightWayCutting.com

**Tel:** 954-383-8611

**Instagram:** @RightWayCutting

### Methods Used

GPR Scanning, Hand Sawing, Core Drilling

REVIEW AND COMMENT ON THIS ARTICLE AT:  
[WWW.CONCRETEOPENINGS.COM](http://WWW.CONCRETEOPENINGS.COM)



# Exposing Inflammation and Saving Your Brain!

By Erin O'Brien

Last week, one of our members texted me asking, "How long do I need to sit in an ice bath so my knee isn't swollen?" Which is kind of a loaded question and brings up a lot of other questions, such as: 1) Why is your knee swollen? 2) What else are you doing to manage the inflammation? 3) What is your diet like?

So, we ended up having a long conversation about inflammation, both acute (short-term) and chronic (long-term) and what other lifestyle factors affect inflammation. This guy is pretty healthy and was doing an excellent job with his diet, so we concluded there were a few minor tweaks he could make, but otherwise was going to have to accept the fact that 40+ year-old knees are

not the same as 20-year old knees. Getting old sucks, right?



The conversation led me to seek out more research on diet and inflammation in an effort to find other ways to naturally reduce inflammation

– which led to some really interesting new studies about how potentially dangerous chronic inflammation can be.

Let's start with what inflammation is – two types, as described above, acute and chronic. Acute is when you sprain your ankle and it swells up, or you get a mosquito bite that



turns red and itches. Normal human reaction, typically nothing to worry about, as it is part of the healing process. Chronic inflammation can be an entirely different story – prolonged inflammation in the body from injury, illness or other internal factors can be more worrisome than we thought. It's the internal factors that we can't directly see or notice the immediate side effects of that are the most dangerous. These are things like disease (hypertension, heart disease, diabetes), stress, lack of sleep, poor diet, excessive consumption of alcohol, smoking, excess weight and inflammatory arthritis. Over time, these inflammation-causing behaviors and stressors gradually tax our bodies to the point of exhaustion, when we can no longer effectively fight off the inflammation

and everything starts to shut down. The longer this goes on, the worse the effects are and the harder they are to reverse.

Here's the real scary part – a new study led by researchers at Johns Hopkins University suggests that prolonged chronic inflammation can lead to early-onset Alzheimer's and brain shrinkage, which would decrease your mental agility and memory. Those subjects who experienced elevated inflammation earlier in life developed these effects by middle-age.

Not looking forward to the prospect of reduced brain capacity and functioning in a few years? Great, there are things you can do to reverse the effects of chronic inflammation – starting with removing the initial risk factors.

Are you a smoker? Eat a diet high in salt, sugar or fat? Drinking more than a few drinks per week? Stop. Do you exercise? Drink enough water? Get enough sleep? Try to keep your daily stress level manageable? Now's the time to start!

Now, let's look at your diet. There are some easy changes you can make that will help reduce your chronic inflammation. First is reducing your consumption of inflammatory foods like refined flour, dairy, vegetable oil, saturated fat, fried foods, processed meats, sugar and artificial sweeteners/additives. Then, you should be adding in foods that are better for you. Below is a list of eight delicious foods you should be eating frequently that will help offset chronic inflammation.

#### 1. Salmon

Rich in omega-3 fatty acids, this fish is a powerhouse when it comes to helping the body produce anti-inflammatory compounds and keeping existing inflammation at bay. Sauté it with olive oil, canola oil or flaxseed oil for an extra boost of omega-3s.

#### 2. Avocado

This creamy superfruit is high in antioxidants and unsaturated fats to fight inflammation fast. You can add avocado to almost anything (salsas, dressings, salads, eggs, toast) or it's beautiful on its own, especially with some Everything Bagel seasoning.

#### 3. Turmeric

Native to India and Southeast Asia, this cousin of ginger is a brightly-hued spice that will add a punch of extra flavor and color to your next dish. It also contains a compound called curcumin which relieves symptoms of inflammation-related issues. I love this on



roasted cauliflower and in my scrambled eggs. Turmeric is also fat-soluble, so it would be easily digested and better utilized in your body paired with the previous foods listed!

#### 4. Broccoli

Speaking of cauliflower, cruciferous veggies like broccoli, Brussels sprouts, kale, cabbage and cauliflower are packed with anti-inflammatory phytochemicals, which also help reduce your risk of cancer. Steaming is easy but can be boring, so sauté in olive oil, roast in the oven or make a delicious chopped salad.



Fun fact – I hate broccoli. My parents made me eat it as a kid and I've tried it a hundred different ways, and just can't like it, no matter how much cheese you add. So instead, I

go for the cauliflower, sprouts, kale or literally anything else.

#### 5. Mushrooms

Especially Shitake, Oyster and Enoki, these fungi lower inflammatory markers and improve immune health. The possibilities are endless. Try a local Asian or Italian market to find some new varieties.

#### 6. Tomatoes

Packed with lycopene, a chemical compound shown to reduce and suppress inflammation, tomatoes are an easy bet for getting a healthy dose of anti-inflammatory foods. Another reason to eat pasta with marinara sauce? Yes, please.

#### 7. Spinach

Yesterday, I met some friends for dinner at a local dim sum place and we tried a dish called Sauteed Water Spinach with Garlic and it's one of the most delicious things I've had in a while. Water Spinach is definitely not available in your local grocery store, but worth a special

trip to find it. Pick some up along with your new mushrooms at the Asian market. Spinach is packed with an amazing mix of antioxidants that simultaneously reduce inflammation and give your immune system a boost. For best results, eat it raw (salads, in wraps or on sandwiches) but if you must cook it, I highly recommend the sauté in garlic preparation.

#### 8. Cherries and Berries

My favorite part of summer was always the fresh, juicy cherries and berries we'd get from the local farms. Living in Florida, we get some of the freshest strawberries around. These are a perfect snack on a hot day, or anytime really. These guys lower levels of a key blood protein used to measure inflammation, offering relief from inflammatory ailments. Berries are easy to add to salads, and cherries and pork (chops, tenderloin, etc.) are a magical combination.

If after reading this article, you went out and made a spinach salad with sauteed salmon, cherries, avocado, tomatoes and broccoli, my work here is done! If you didn't, there's still hope. Small steps will help make lifestyle changes easier. Do you normally have regular lettuce on your burger? Try spinach instead. Swap out that chicken breast for salmon tomorrow night (and season it with turmeric). Make guacamole and throw in some extra tomatoes. Take a long walk tonight to get your heart rate up and your stress levels down.

Also – I'm having a glass of wine tonight. That's still okay. Cheers and good luck!



*Erin O'Brien, MS, ATC is a Certified Athletic Trainer and VP/COO for O'Brien International, the association management company that manages the Concrete Sawing & Drilling Association, and Executive Director of CSDA. O'Brien received her Bachelor of Science degree in Athletic Training from Ohio University and her Master of Science degree in Applied Physiology and Kinesiology from the University of Florida. She is also a Certified Level 2 CrossFit Instructor and member of CrossFit9 in St. Petersburg, FL. She is a regular contributor to Concrete Openings magazine. She can be reached at erin@csda.org or 727-577-5002.*



## Your Reputation is at Stake: Responding to an OSHA Press Release or Catastrophic Incident

By: Mark A. Lies, II and Adam R. Young

### 1. OSHA ISSUES PRESS RELEASES TO PUBLICIZE ITS CITATIONS AND PENALTIES

Following a high profile accident, fatality or catastrophe, federal OSHA will often conduct an inspection. Within the next six months, OSHA may choose to issue citations. Unbeknownst to many employers, OSHA regularly publishes news releases, often accompanied with factual allegations about an employer’s failure to abide by safety rules. See <https://www.osha.gov/news/newsreleases/enforcement>. OSHA alleges penalty amounts and severe characterizations of any citations issued. OSHA press releases were a favored tool of the agency during the Obama administration: Dr. David Michaels favored press releases as a “shaming” technique that he believed could magnify the effect of safety enforcement in the industry. While the number of press releases declined during the Trump administration, the agency used the tactic aggressively during the COVID-19 pandemic to publicize the agency’s COVID enforcement efforts. We anticipate that under the Biden administration OSHA may utilize the press release tactic with greater frequency.

### 2. REPUTATIONAL AND BUSINESS HARM FROM OSHA PRESS RELEASES

OSHA’s press releases—founded on the mere allegations in OSHA citations—can have damaging effects on an employer’s reputation and business relationships. OSHA press releases are often picked up and mentioned in local or national news outlets, magnifying the negative publicity in the region. Employers may face adverse professional rankings from third party safety tracking services and even receive bans from certain customers for bidding on potential contracts or work projects. Worse still, based merely on those allegations, OSHA may place the employer on its Severe Violators Enforcement



Program ([https://www.osha.gov/dep/enforcement/svep\\_white\\_paper.pdf](https://www.osha.gov/dep/enforcement/svep_white_paper.pdf)), further branding the employer as a “severe” violator of the OSHA regulations.

### 3. RESPONDING TO OSHA PRESS RELEASES

Serious incidents stir strong emotions, and employers must be careful, thoughtful, and deliberate in how they respond to OSHA press releases. Media may analyze and comment on the employer’s response (or lack of response) to an OSHA press release. Any comment could have serious repercussions for the employer, and risk worsening the reputational harm. Depending on the industry and the public-facing nature of the company, the employer may consider preparing an affirmative press release and talking points to counter OSHA’s narrative in a professional and respectful manner. Employers may choose not to communicate at all with the media. If you do decide to engage with the media, we recommend preparing appropriate comments rather than stating only “no

comment.” We recommend the following themes and talking points:

- Acknowledge that a serious incident or a major inspection occurred.
- Offer respectful condolences and concern for the health of any injured employees or other individuals.
- State that the Company’s investigation into the accident is ongoing.
- State that the Company has and will continue to work cooperatively with OSHA and any other applicable government agency during their inspections of the worksite.
- Do not criticize OSHA or its personnel.
- Respectfully suggest that the Company disagrees with OSHA’s issuance of any citations, and that the Company will continue to discuss a resolution of the citations. If necessary, also indicate that the Company has contested the citation through the appropriate change.
- Do not speculate as to the cause of the accident, admit fault, offer an apology, or

suggest that the Company violated any OSHA regulations or its own policies.

- Do not blame any employee for the occurrence of the accident. Though the accident in fact may have been the result of unforeseeable employee misconduct, a press release or media comment is not the proper forum to assert that affirmative defense or fault on the part of the employee.
- Do not suggest that any employee involved in the incident is suspected to have been asleep or impaired by drugs or alcohol.
- Maintain employee privacy; do not disclose the name of any individuals involved in the incident.
- Note the Company's longstanding commitment to keeping all employees safe and healthy at the workplace.

With these tips, employers can navigate the stressful process of responding to OSHA press releases and avoid hasty and misguided press releases which create a false impression regarding the employer and its commitment to employee safety and health. See our other article to understand the broader effort to manage post-accident communications, including internal emails, to preserve legal privileges and limit liabilities. Employers should be closely assessing any OSHA citations issued, and consider filing a notice of contest within 15 working days of receipt of the citation if the employer is unable to reach an informal resolution with the agency. For more information relating to defending OSHA citations, responding to OSHA press releases, or any other safety law topic, please contact Mark A. Lies, II at [mlies@seyfarth.com](mailto:mlies@seyfarth.com) or Adam R. Young at [ayoung@seyfarth.com](mailto:ayoung@seyfarth.com).

*Mark A. Lies, II is a Labor and Employment Law attorney and Partner with Seyfarth Shaw LLP, 233 S. Wacker Drive, Suite 8000, Chicago, Illinois 60603; 312-460-5877; [mlies@seyfarth.com](mailto:mlies@seyfarth.com). He specializes in Occupational Safety and Health law and related employment law and personal injury litigation.*

*Adam R. Young is an associate attorney in the Workplace Safety and Environmental Group in the Chicago office of Seyfarth Shaw LLP. Mr. Young focuses his practice in the areas of occupational safety and health, employment law, and associated commercial litigation. Mr. Young can be contacted at [ayoung@seyfarth.com](mailto:ayoung@seyfarth.com) or at 312-460-5538.*

# CONCRETE COATING

## PROBLEMS?

GET AN **EDCO**



**SEC-NG**

Single-Disc Floor Grinder

**TMC-7**

7" Turbo Edge Grinder

**WE GOT YOU!**

THE **EDCO**  
COMPANY STORE

[EDCOstore.com](http://EDCOstore.com) • [info@edcostore.com](mailto:info@edcostore.com)

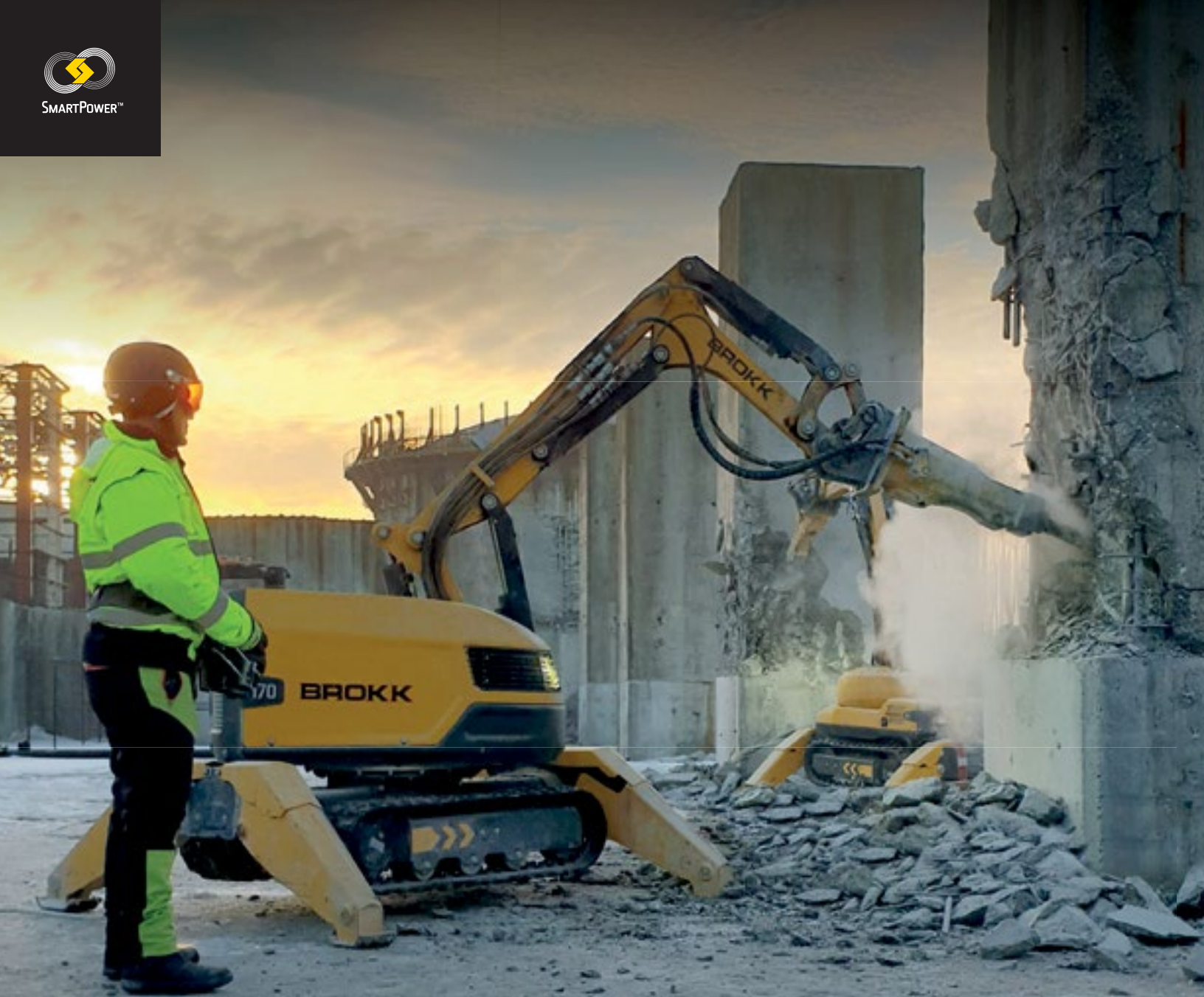


**LISSMAC**

CONSTRUCTION TECHNOLOGY



LISSMAC Corporation  
17 Route 146, Mechanicville, NY  
Phone +1 518 326 9094  
[sales@lissmac-corporation.com](mailto:sales@lissmac-corporation.com)  
[www.lissmac-usa.com](http://www.lissmac-usa.com)



# OUR KIND OF PLAYGROUND

This is the natural habitat for Brokk's compact giants. With the perfect combination of power, operability and accessibility our demolition robots provide efficient solutions to increase profits.



Booth W703





## IACDS President's Insight

I am really sad. It is hard to realize that it had been already two years that I have been with you in Florida. It's been a long time since we were able to talk and to share our experiences. You see that some things change and some don't.

We still have lots in common. For example, we do share the pandemic problem. The perspectives to face that situation in Europe is quite different from country to country, despite we are all members of the European Union. I live in Germany, more precise in Bavaria, and there is a total different approach to the situation compared to Northern states of Germany. Since November, we've lived in a some kind of a lockdown, which means that we are not allowed to meet with more than two people, and since Christmas not more than one other person that is not living in our household. We are not supposed to travel, all restaurants, shops, hotels, leisure facilities and barber shops have been closed since November. For Christmas we were allowed to meet the family for one day and after Christmas the lockdown became even more strict. Now we have to be at home by 9pm and stay in. Schools are closed and we are trying home schooling via the internet. You see Europe is very modern, the only funny thing is, that our infrastructure does not support that modern stuff. Or schools do not have enough resources for supporting students with laptops.

But that is only one side of the medal and let's talk about the other: our businesses. I can tell you, that most of the production industries, including concrete sawing and drilling, are less affected than expected. The business is almost business as usual. Certainly we had to adapt some things like wearing masks, keeping distance and avoiding shaking hands. But we could cope with this situation and were able to find practical solutions. And that is more or less the same all over Europe, apart from the UK, the United Kingdom is always a little bit more special than others.

The UK had a lockdown tougher than ours: in the UK even the construction industries had to close down for some time.

It's now February, and there is some light showing up at the end of the tunnel: the numbers of infections are going down day by day and our authorities are starting to celebrate themselves and their efforts. The rest of us are hoping that we will be able to get back to an normal live soon, at least after Easter holidays. We even might dream of traveling. But it is very likely that this will be able only after most of the population will be vaccinated. And that might the point where we can start of thinking of having another meeting in person. In Europe, the annual conventions that should haven taken place in the first part of the year are all cancelled as well as the annual convention of the IACDS. But in the meantime, we have been busy and released a business report about our industry at the end of last year. That will be our focus for 2021: we use the situation and will be more visible on digital channels. We will provide you with webinars, the first one has just taken place. In the last part of the year, we are going to release a new business report including the effects of the pandemic situation in 2020.

In the meantime I ask you to stay safe.



**MICHAEL FINDEIS**  
IACDS President

**AQUAJET**

**NEED TO GET  
A CONCRETE REPAIR  
PROJECT DONE FAST?**

A Hydrodemolition robot can  
complete the job **25x faster**  
than jackhammers.

**WORLD OF  
CONCRETE**

See us with Brokk  
at booth W703

Distributed by:  
**Brokk Inc. | Monroe, WA | 1-360-794-1277 | info@brokkinc.com | www.brokk.com**

**www.aquajet.se**

# MAXIMUM

## CC5049

Front Pivot Saw



**14" to 42"**

**Blade Capacity with  
17.5" Cutting Depth**

**49HP CAT Turbo Diesel**

- **Certified EPA/CARB Tier 4 Engine**  
Clean, reliable power with Caterpillar's latest engine technology.



World-class product support  
offered through global CAT  
dealer network

- **Advanced Digital 4" Display**

Enhanced rich color graphics for superior visibility in bright light.  
Choose between blade speed, engine speed and engine torque  
views with critical diagnostics.



# PERFORMANCE



- **Adjustable Blade Lowering Speed**  
Dash-mounted for quick, precise adjustment.
- **Large 6 Gallon Fuel Tank**  
Convenient left-side filler along with electronic low fuel indication.
- **Effective Weight Balance**  
Front-to-rear weight distribution for balanced optimum performance.
- **Quick Disconnect Flanges**  
Quickly detach from stuck blade to minimize down time.
- **Simplified Serviceability**  
Easy, open component access for faster routine maintenance.

**And Many More  
Advanced Features**



**CORE  
CUT**

**Diamond Products Limited**  
333 Prospect St., Elyria, OH 44035  
800-321-5336 - [diamondproducts.com](http://diamondproducts.com)



# Two CSDA Contractors Work Together to Fill the Void

**T**wo great contractors are always better than one. When a water main break caused a section of the floor of a building to buckle and crack from the immense pressure, the plumbing leak quickly became the least of the concern. The building owners feared the flooding water was forming a large diameter hole through the adjacent foundation wall and they were left searching for quick answers. General contractors were brought in to assess the suspected large-diameter hole that had formed in the concrete foundation wall on the east side of the building from the pressure coming from the northwest side of the building.

A contractor was hired to fix any structural and underground damage and spent the previous day cleaning up truckloads of sub-grade material that was forced above ground by the enormous water pressure. Upon seeing how much sub-grade material there was, a couple small diameter pilot holes were drilled into the floor to check for voiding. After confirming that voiding that taken place, it was of the utmost importance to discover the exact extent of the voided slab.

CSDA contractor Hard Rock Technologies specializes in Ground Penetrating Radar (GPR) and was called late in the afternoon to begin scanning the building the following day to perform a void detection scan using GPR. GPR is a non-destructive method for locating and visualizing under slab-voiding. Providing the extent of voiding in the



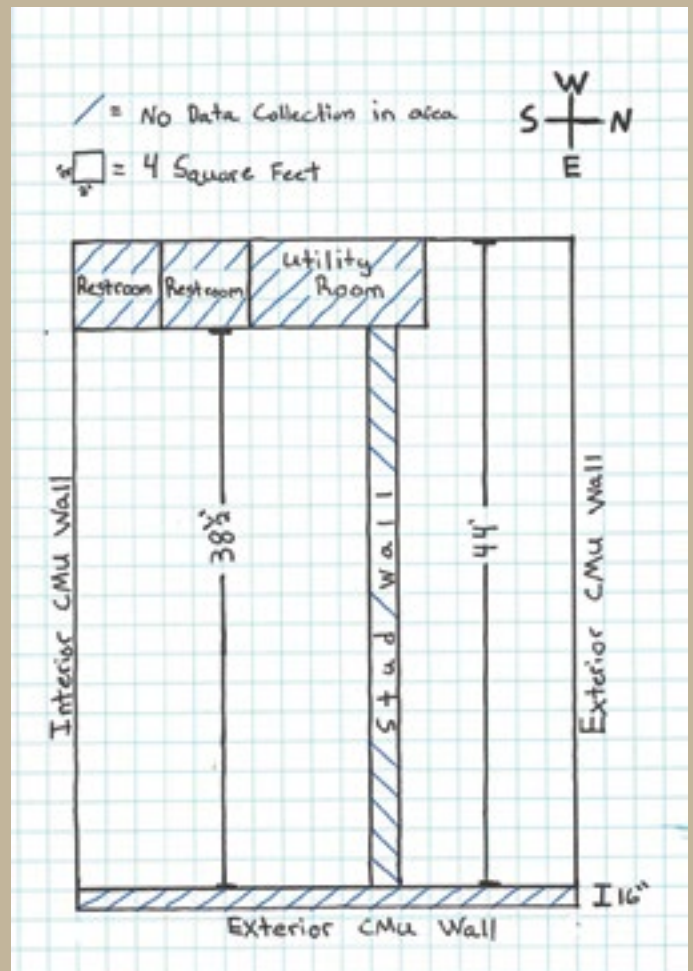
Once all data collection was completed, the technician began taking measurements of fixed objects and distance of passes made from the starting point. These measurements would in turn be used in a sketch of the area(s) and provided to the customer for clarity. The collected data, including pictures and a copy of the sketches, were then sent to fellow CSDA member Echo GPR in Paola, Kansas. Echo GPR was able to run the data through a software program to provide a visual plan view of contrasting GPR signals similar to void signals. This plan view allowed for an easy to interpret visual for the client.

The biggest challenge in completing the job was working around a range of obstacles, starting with the jobsite being an active warehouse under intense stress from clean-up and the damage that had been created. The technician had to work with and around the warehouse staff while they performed a salvage effort of materials. Existing plumbing also presented a major challenge. In the first area, the technician had to crawl under low-hanging plumbing in order to perform multiple necessary passes while at the same time not compromising data collection.

area allows the contractor to develop a plan for repairs and to know what areas require repair and what areas were unphased by the water damage. Multiple forms of destructive methods could have been used; however, the contractor would have been going in blind with no knowledge of the exact areas that needed focus. GPR provides a game-plan of where the work and repairs need to be focused. For the size of the area, the functionality of the GPR equipment utilized was ideal.

Upon arrival onsite, the technician realized that this was still very much a working facility with major clean-up still taking place. Taking place in a still active warehouse, the technician assisted in helping clear the areas of materials where data collection would take place. Once the area was cleared, the Hard Rock Technologies technician strategized the best route and direction to gather the most data possible. The technician began laying out framework which would allow the antenna to the technician began laying out the framework of a grid which would ensure the highest quality results. The technician used a Geophysical Survey Systems Inc. 1600 MHz Antenna attached to a Sir3000 Monitor to scan the affected area. The area was split into three sections due to existing stud and CMU walls. The three areas combined amounted to roughly 2125-square feet of scanned surface.

During data collection, the technician was able to confirm a large amount of voiding in the area. The area labeled "Area 2" in the office had a significant amount of voiding present.



The main safety concern was the northwest corner of the building where the concrete was buckled and cracked. The technician took special care to not get anywhere near this area due to the fear that the slab was already far too comprised. There were also multiple forklifts moving boxes and various office materials in the warehouse at the same time data collection was taking place. The technician had to work with the warehouse staff to make sure that both parties were extremely aware of each other and taking turns in walking/driving through the area. Fortunately, the high-visibility vests aided in this process and kept operators safe.

The results were provided in a report form showing the contractor what areas needed to be addressed and what areas were left untouched by the water damage. The contractor was pleased with the results and knew who to call about a month later when another building was shown to have voiding. Ryan Hammer,

the technician who performed the data collection and provided the customer with the subsequent report, said, "It's rewarding to see a project through from start to finish. A project, like most, where we are a key piece to the puzzle and timely accurate results are essential."

Hammer also went on to say, "Being able to work hand-in-hand with not only a fellow CSDA member, but a good friend, is equally satisfying. The connections made through CSDA lead to benefits for all companies involved; whether it's being able to work together, call each other with interesting or challenging GPR scans or even just get another set of eyes on a raw data slice." Hard Rock Technologies has a long-standing relationship with the contractor that hired them. They are well-known to work hard and provide accurate and reliable results to help on all their projects.

REVIEW AND COMMENT ON THIS ARTICLE AT:  
[WWW.CONCRETEOPENINGS.COM](http://WWW.CONCRETEOPENINGS.COM)





## COMPANY PROFILE

**Hard Rock Technologies** was founded in 2008 and proudly operates in the Chicagoland area. They specialize in ground penetrating radar for both concrete and utility applications, private utility locating and infrared inspection. They are a certified WBE contractor and have four total technicians, all of whom are CSDA Certified GPR imaging technicians. They perform scans on up to 2,000 callouts per year with an accuracy rating of over 99.99%. Hard Rock Technologies has been a member of CSDA since 2011.

Founded by CSDA Past President Rick Norland and CSDA training instructor Mark DeSchepper in 1999 as Construction Solutions and renamed **Echo GPR Services** in 2017, Echo provides ground penetrating radar services to contractors, governmental agencies, engineering firms and private industry. Echo is headquartered in Paola, Kansas.

## RESOURCES

**General Contractor**  
N/A

**CSDA Contractor**  
Hard Rock Technologies  
Contact for Story: Ryan Hammer  
Email: Ryan@HRTScancom  
Tel: 847-409-0554

**CSDA Contractor**  
Echo GPR  
Contact for Story: Mark DeSchepper  
Email: Mark@EchoGPR.com  
Tel: 913-879-2200

**Methods Used**  
GPR Scanning



## How to Fight Against Spam and Robocalls

By: Jeff Bell



It's a familiar cycle you probably go through several times a week, if not several times a day. Your phone rings with an unknown number displayed on the caller ID. *"It's probably a spam call,"* you think. *"I should just ignore it."*

But what if it's not? It could be something important — your new client, your doctor, your child's school. So you pick up against your better judgment, and nine times out of 10, it's a recorded message informing you that you've won a luxury vacation package, you're eligible for a great new insurance rate or you owe the IRS money. You hang up and block the number, but you know another dozen will crop up in its place.

Why do spam calls seem to get worse every year, and what can you do to defend yourself against them?

### THE RELENTLESSNESS OF ROBOCALLS

In 2019, Americans received 58.5 billion robocalls, a 22% increase from the previous year, according to data from call-blocking service YouMail. More than 38 billion robocalls have been placed so far in 2020, which amounts to around 116.3 calls per person.

Robocalls trying to sell you something are illegal, unless you have given your clear written permission to a company to call you about products or services. Unfortunately, many robocalls originate from outside the U.S., and it's often difficult to track down the many different perpetrators. Spammers often use a tactic known as "neighborhood spoofing," where they make their call look like it's coming from your own area code so you are more likely to answer.

Not all robocalls are illegal. Robocalls that don't require your consent, under Federal Trade Commission (FTC) rules, include messages that are purely informational — such as appointment reminders or flight updates — or those from political candidates, charities or some health care providers.

Receiving a barrage of robocalls every day is irritating at best and downright dangerous at worst. This year, bad actors have used robocalls to sow misinformation about the coronavirus pandemic and keep people away from the polls on Election Day.

### WHAT EVER HAPPENED TO THE NATIONAL DO NOT CALL REGISTRY?

The FTC created the National Do Not Call Registry in 2003 to keep consumers from receiving calls from telemarketers. The registry



still allows certain types of calls, including those from political campaigns or charitable organizations, or related to debt collection or surveys. You can permanently enter your phone number in the registry, as well as report unwanted sales calls and robocalls, but it has become less effective over the years.

The Do Not Call Registry prevents sales calls from actual companies, but it can't stop calls from scammers who ignore it. And if you've had a recent transaction with a company, or given them permission to contact you, they can still call unless you tell them to stop.

For example, if you recently bought a new car, you may have unwittingly opted in to receiving calls from the car's streaming radio provider in that big stack of papers you signed — and they'll call you for months afterward asking you to renew or upgrade your service.

#### HOW TO PREVENT UNWANTED CALLS: BIG PICTURE ACTION

Spam calls may feel like a minor annoyance, but they are part of a much larger consumer privacy management problem. As citizens, how do we main and contain control over our privacy in a system that increasingly allows our personal data to be mined and monetized? It's time to say "enough" and push representatives, governing agencies and companies to do more to protect us.

According to data from a 2019 Federal Communications Commission (FCC) report, the number of consumer complaints about robocalls is increasing. In 2018, the FCC received 232,000 complaints about unwanted robocalls and telemarketing calls, a jump from 185,000 in 2017 and 150,000 in 2016.

In March 2020, the FCC adopted new rules that require phone companies to implement caller ID authentication by the end of June 2021 to combat robocall spoofing. With widespread use of the new technical standards, known as STIR/SHAKEN, illegal spoofing should become less effective, allowing phone providers to weed out spoofed caller ID information before calls reach subscribers, and law enforcement to identify spammers more easily.

I believe STIR/SHAKEN is a step in the right direction, but much more can still be done to protect consumers. The FCC only mandated these new rules after Congress passed the TRACED Act, bipartisan legislation aimed at cracking down on robocalls. Soon we will have a new presidency and a new

**DIAMOND VANTAGE®**  
**HYDRAULIC HANDSAW BLADE X1000**  
**fastest and most cost effective hydraulic handsaw blade you can get in the market**

**16"**  
 MAX RPM 3,820

**X1000**  
 (value grade) used for concrete, Medium to Heavy Duty Applications, Fast Cutting

**Vantage**  
 diamondvantage.com  
 800-222-6078

**for more info please scan →**

**diamondvantage.com**

Congress; now is an opportunity to demand that our representatives pass new legislation to reinvigorate consumer protections.

#### HOW TO PREVENT UNWANTED CALLS: INDIVIDUAL ACTION

Your best daily defense against spammers is call blocking. Here are some steps you can take:

##### In general:

- Report unwanted calls on the National Do Not Call Registry.
- Don't answer calls from unfamiliar or international numbers. Don't return missed calls from unknown numbers.
- If you do answer an illegal robocall, hang up without pressing any buttons.
- On cell phones:
- Block spammers as they come in, one by one.
- Download a call-blocking app for your phone, such as Nomorobo, RoboKiller or Hiya.

##### On landlines:

- Check with your provider to see if it offers anti-spam software or can flag incoming spam calls.
- Buy a hardware call blocker if you have a copper line. Most are preprogrammed with a few thousand spam numbers and let you add new numbers.
- If you have a VoIP landline, use an app like Nomorobo that enables a simultaneous ring function. Your phone will ring at your home and the company's screening system to intercept spam calls.

Fighting against spam calls can feel like an endless game of Whac-A-Mole, but with collective and individual action, we can start to root out offenders and get serious about privacy management.

*Jeff Bell is the CEO of LegalShield and IDShield, protecting and empowering people through legal plans and privacy management solutions.*



Tech Talk is a regular feature of *Concrete Openings* magazine, focusing on equipment, maintenance and technical issues of interest to concrete cutting, polishing and imaging contractors. Readers wishing to have a particular subject addressed can call or email CSDA with their suggestions at 727-577-5004 or [editor@concreteopenings.com](mailto:editor@concreteopenings.com).

# Care and Maintenance of Hydraulic Hand Tools Used in Wet Locations

By Jan Byrresen and Mike Orzechowski, PE



**H**ydraulic hand tools are an ideal choice for working in wet locations, tight spaces and extreme conditions, where water frequently gets on or in the tool. These tools can be used in confined working areas and wet places such as trenches, utility service manhole boxes, sewer pipes, crawl spaces, docks, dams or water treatment facilities. Hydraulic hand tools are frequently the first choice for wet location areas over hi-cycle, electric, battery, gasoline or pneumatic options, for many reasons. They are a self-contained closed system which makes them capable of full water submersion for underwater work. Their high power to weight ratio is a perfect feature to maximize working power without compromising maneuverability. The hand tools in the working area are isolated from the

powerpack to eliminate those electric shock hazards and noxious exhaust fumes making them ideal for use in a confined space.

In addition to the tool manufacturer's operation and maintenance recommendations, many operators have hand tool prep and cleaning routines that help prolong the life of the tool in these harsh and wet conditions. Some of these tips and tricks are tool-specific and some are more general. Pre and post service as well as some broad-brush tips and tricks will keep the hand tools running longer and much more efficiently. As always, it is important to follow the hand tool manufacturer's instructions and use this information to ask questions for better clarity or direction if needed.

Hydraulic hand drills are extremely lightweight for the power that they can deliver.

The higher torque at the bit is needed to spin larger diameter bits (up to 14 inches, or 350mm diameter hand held) or extra torque to overcome power losses in water. Most hand drills have a clutch that will slip at a specified torque, releasing the stored energy, and when the clutch re-engages it creates a snapping action we call clutch kickback. Most hand drills are limited to bits under 3 inches in diameter. The hydraulic hand drills avoid this kickback because they do not have a clutch. They use a safety valve, which when overloaded will stop the drilling action while maintaining the load of the maximum torque value. This eliminates the snapping kickback action. The max torque threshold is higher which yields faster drilling speeds and more power to overcome water friction losses.

Hydraulic hand grinders and small 9-inch saws that are used in underwater applications typically have lower rpms and higher torques than terrestrial models to offset the water friction losses and turbulence of the blade. Much like a boat propeller, the blade or cupwheel will churn up the water and rob the tool of power.

Hydraulic hand saws, typically 14- to 24-inches in diameter, run at a constant rpm regardless of load (unlike rpm drop in electric and gasoline models as load changes). The models designated for underwater use are usually geared down to have higher torque and lower rpm to overcome the water friction loads and maintain the power at the blade. It is not hard to do this yourself by changing the blade guard, for example using a 16-inch saw with a 14-inch blade guard. The blade speed will have a slower rpm, so be certain to use a blade that is properly tensioned for that rpm.

Hydraulic dewatering and trash pumps are much more compact for the pumping performance (head pressures and GPM flow rates). They are cooled at the powerpack, therefore they can run dry (not pumping any media) without overheating. Do not hoist the pumps by the hoses, it is important to attach a cable to hoist the pumps.

Hydraulic ring saws perform well underwater because they have less water friction loss than a comparable hand saw with a full blade. Hydraulic concrete chainsaws can be used to cut concrete or ductile iron pipe with the appropriate chain. Some use a marine grade grease to protect the bar tensioning parts.

Breakers and chipping hammers might need to have weep or relief holes strategically added to the nose piece retaining the bit to prevent the bit from creating an incompressible hydraulic lock when submerged underwater. When the breaker or chipping hammer is not used underwater or extreme wet locations, the nose piece should be swapped out with one without the holes or the holes should be covered (even with a piece of industrial tape) to prevent dust and slurry from caking inside the working parts of the tool. When cleaning after use, be certain to flush out the nose piece completely (often overlooked crevasses) and remove the bit. Apply a thin coat of copper anti-seize on the tooling locking mechanism, nose piece threads and bushing (basically the sliding bare metal surfaces and threads).

Some hydraulic hammer drills used in wet locations and/or underwater use stainless

steel and/or non-corrosive parts in the chuck to keep the bit (usually SDS-Max) from rusting in place and locking up the mechanism.

Many standard rock drill models have a built-in air-compressor to clear the dust from holes as it is drilling. For underwater models, it requires a small external air compressor and feeds the airline along with the hydraulic hoses. The small amount of air needed on a hydraulic rock drill is a minimal distraction to the diver compared to the excessive air exhaust of a pneumatic rock drill underwater.

Hydraulic ventilation blowers for circulating air in confined spaces are very compact and portable for the CFM airflows they create with all the benefits of not having electric motor shock hazard in the confined space.

For all the tools, a pre-operation service should be performed to check the operation for the tool to be certain it is working properly. It is difficult and potentially costly to diagnose a non-working hand tool when deployed with only one part of the 'system' away from the powerpack.

Small hydraulic hand tools are very lightweight for the power that they can deliver. Many are outfitted with longer whip hoses so the hydraulic fittings are not adding to the weight of the tool. However, this puts the fittings on the ground (in the mud), therefore be certain to clean the fittings before making or breaking the connections to prevent contamination of the hydraulic fluid. Use flatface quick release couplers to make it easier to clean before connecting.

Hose management is critical in underwater and tight space working conditions. It is common for the hoses to be connected in pairs to keep as one line. A protective additional outer wrapping can be added to places where the hose pair will be exposed to abrasion during operation. Long hydraulic hoses are often required when operating underwater or in tight tunnels because the location of the powerpack might end up further away from the working area. Be certain to check the back pressure allowed for the tool and properly size the hoses (especially the return hose which can, and in these cases, be commonly oversized from the pressure hose as a mixed pair).

Biodegradable hydraulic fluid is sometimes used to prevent petroleum environmental damage from a small hydraulic leak in a pooled water source. Many hydraulic fluids have compatibility considerations with other oils. When changing to bio fluid, be

certain to flush the complete system including the powerpack (including changing the filters), the hoses and the hand tool/whips.

Many hydraulic hand tools have protective covers over the body of the tool. Most of the time the covers are not sealed. Access holes can be added to flush underneath the cover after use. It is advisable to be able to plug the holes if the tool is not dedicated for use underwater because slurry can get through the hole and under the cover. If the hydraulic tool is designated as a wet location/ underwater tool (and not just used underwater or in wet locations occasionally), it might be worth upgrading the hydraulic fittings to non-corrosive stainless steel.

Immediately following the use in wet location and/or underwater, it is good practice to perform a post-operation service. This does not substitute for the routine service and maintenance schedule for the tool. Rinse the tool thoroughly. Submerge tool in a tub of clean water and operate the tool to clear out the water jackets. This includes hooking up the water feed system (even if the tool was used underwater and did not require an external water feed) to flush the ball valve and internal parts of the water jacket.

If the tool was used in salt water or extreme conditions, replace the dirty water from the tub and repeat the submerged operation to fully flush a second time. Spray off the hose and fittings and let air dry before coiling hose on a reel. Spray off the hand tool with WD40 (water displacer). Let the tool air dry, then lubricate per the manufacturer's recommendations (note WD40 is not a lubricant). Grease zerk fittings to flush out contaminated grease. Remove bits and blades from the tool to prevent them from rusting in place.

Hydraulic hand tools are very simple, and with the hydraulic fluid keeping the internal moving parts constantly lubricated, they have relatively low maintenance costs and down time. Typically cutting and coring jobs usually involve slurry and water, but for hydraulic tools used in wet locations, it is important to take additional steps to cleaning and maintaining the tool.

---

*Jan Byrresen is the Business Development Manager for HYCON A/S in Stoving, Denmark. Mike Orzechowski, PE is Engineering Manager of Equipment for DITEQ Corp. in Lenexa, Kansas. Orzechowski is also Vice-President of CSDA and the Chair of the Standards & Specifications committee. DITEQ is a distributor of HYCON products.*



## Brokk Names Jeff Keeling North American Sales and Marketing Manager

Brokk, the world's leading manufacturer of remote-controlled demolition machines, names Jeff Keeling North American sales and marketing manager. In his new role, Keeling is responsible for growing the Brokk brand in key segments across the United States and Canada, including demolition, processing and mining. He previously served as Brokk's business development manager for North America.



"Brokk's demolition robots are all about having the right tool for the job," said Lars Lindgren, President of Brokk Inc. "The same is true for our staff. Jeff is the perfect candidate to help us spur growth in North America. A lifetime of first-hand application and sales experience in a number of our core industries gives him a unique perspective on how best to support our customers."

Keeling joined Brokk in 2013 as the Midwestern regional sales manager. He brought extensive experience in the concrete cutting and demolition industry to the position, including stints with Husqvarna, Volvo Construction Equipment, and Hilti. He also served as executive vice president for Magnum Diamond & Machinery, his family's concrete saw and diamond blade manufacturing business. Keeling holds a bachelor's degree in personnel administration from the University of Kansas in Lawrence.

"I have been around demolition equipment my entire life," Keeling said. "I know robotic options like Brokk are not just the wave of the future — they are increasing productivity and safety on jobsites in the here and now. I'm excited to take on this new role and continue serving markets where Brokk machines are so invaluable, such as cement and other processing industries, concrete drilling and sawing, construction, demolition, tunneling and mining."

### For More Information

Contact: Mike Martin

Tel: 800-621-7856

Email: [mike@brokkinc.com](mailto:mike@brokkinc.com)

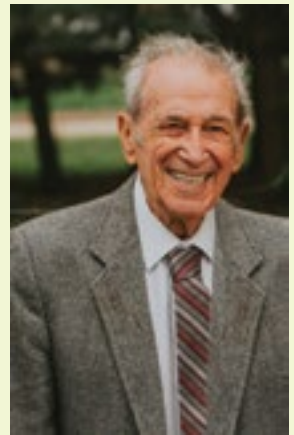
[www.brokk.com](http://www.brokk.com)

## Mavo Systems Acquires Central Concrete Cutting

Central Concrete Cutting Inc., of Edgar, Wisconsin, has sold its assets to Mavo Concrete Sawing Services, (MCSS) a subsidiary of Mavo Systems, Inc. Central Concrete Cutting (CCC) President and CSDA Past President, Jack Sondergard, has been hired to manage the business formerly known as Central Concrete Cutting Inc. but now for MCSS. CCC employees have also been hired and will continue to provide the same high quality professional services customers have come to expect when they hire Central Concrete Cutting Inc. Their commitment to safety first and the highest quality customer service will continue. We will now have access to increased resources to better serve your needs. In addition, Mavo Concrete Sawing Services is a certified Minority Business Enterprise (MBE) and a union employer.

## In Memoriam—John J. Scaduto

John Scaduto, former VP of Sales for Roughneck Concrete Drilling & Sawing Company in Chicago, IL, passed away recently. John was instrumental, along with various diamond bit manufacturers, in developing specialty core bits for use in the construction of nuclear reactor facilities. John also developed relationships with testing companies like Portland Cement Association, which led to his managing the exploration and cutting into Al Capone's vault live on WGN with Geraldo Rivera in 1986. John was a proud WWII Navy combat veteran, survived by his wife of 72 years Laverne, daughter Kim (Ray) Gauthier, son Jeff (Diane) Scaduto, grandchildren Marla, Lindsey (Hector), Max, Julie (Brice), great grandson Chase, and numerous nieces and nephews. He will be missed by all who knew him.



"It has been my pleasure to serve you by providing concrete sawing and drilling services to your company for the past 24 years. Central Concrete Cutting Inc. started out as a dream and has grown into a successful business providing professional concrete sawing services in a part of Wisconsin where none previously existed. I want to thank you for the pleasure of working together all these years and reassure you that the integrity you have known with Central Concrete Cutting Inc. will continue as we serve you as MCSS," said Sondergard. He will remain an active CSDA member and committee participant.

### For More Information

Contact: Jack Sondergard

Tel: 715-352-2552

Email: [jsondergard@mavo.com](mailto:jsondergard@mavo.com)

[www.mavo.com](http://www.mavo.com)

## Portland Cement Association's Carbon Neutrality Commitment

The Portland Cement Association (PCA), the leading association representing cement manufacturers in the United States, today announced an industry-wide ambition to reduce carbon emissions and further address the impacts of climate change. As PCA members continue to drive down the carbon intensity of their operations and products, PCA will develop a roadmap by the end of 2021 to facilitate its member companies achieving carbon neutrality across the concrete value chain by 2050.

Industries, environmental groups and local governments across the U.S. are increasingly working to mitigate the effects of climate change and create a more sustainable future, and this roadmap positions the cement and concrete industry as the leader in the construction sector in delivering cleaner and greener infrastructure across the country.

"As the second most used material on earth and a cornerstone of our economy, we understand the critical role cement and concrete

play in our nation's future, and we are committed to an industry-wide effort that achieves carbon neutrality," said Tom Beck, Chairman of the Portland Cement Association and President of Continental Cement.

"We look forward to proactively working with stakeholders across the built environment, policymakers and environmental groups toward this ambitious target."

Cement producers have a strong culture of innovation and are in constant pursuit of finding more innovative and efficient ways of producing the high-quality cement our nation needs for things like homes, highways, hospitals and the infrastructure that delivers safe drinking water. Since 1990, the industry has reduced energy consumption by 35%, emissions intensity by 11% and company-led improvements have led to the increased use of alternative fuels, such as industrial byproducts that otherwise would end up in landfills.

### For More Information

Contact: Alexandra Lawrence

Tel: 847-966-6200

Email: [alawrence@apcoworldwide.com](mailto:alawrence@apcoworldwide.com)

[www.cement.org](http://www.cement.org)



## Husqvarna Consolidates Brands in the Surface Preparation Portfolio

Husqvarna Construction Products is consolidating its brand portfolio in the surface preparation segment. HTC products, services and solutions will therefore be rebranded as Husqvarna and integrated into the global Husqvarna offering.

Husqvarna acquired HTC in 2017 and has since worked with the two brands closely side by side in a multi-brand set-up. The consolidation brings new opportunities to focus efforts and investments in product and service development.

"With the experience we gained over the past three years, we are convinced that we can better serve our customers and develop the floor grinding industry as a whole by nurturing one strong offering under one strong brand," says Stijn Verherstraeten, Vice President Concrete Surfaces & Floors, at Husqvarna Construction.

HTC products, services and solutions will be available under the Husqvarna brand in early 2021.

### For More Information

Contact: Cate Stratemeier

Tel: 913 928 1442

Email: [cate.stratemeier@husqvarnagroup.com](mailto:cate.stratemeier@husqvarnagroup.com)

[www.husqvarnacp.com](http://www.husqvarnacp.com)



## Aggregate Technologies Wins the Highest Excellence in Construction Award

Aggregate Technologies won the prestigious ICE award by Associated Builders and Contractor's Houston chapter in the Specialty Construction category. The ICE award is the top award given in the Excellence in Construction Awards. The Excellence in Construction Awards recognize outstanding projects in the commercial and industrial construction industry. Tropical Storm Imelda led to damaged bridge columns on Interstate 10 over the San Jacinto River, and Aggregate Technologies used hydrodemolition technology to speed up the repair process.

### For More Information

Contact: Mitch Riordan

Tel: 800-752-2729

Email: [sales@aggregatetechnologies.com](mailto:sales@aggregatetechnologies.com)

[www.aggregatetechnologies.com](http://www.aggregatetechnologies.com)

## AquaJet Training Options Provide Customized Solutions

AquaJet, a global leader in Hydrodemolition machine manufacturing, offers on-demand training options to maximize productivity and safety on the jobsite. In addition to in-depth, hands-on training with each machine commission, AquaJet's North American subsidiary provides continuing education options on-site or through its network of facilities across the United States. Training is tailored to customer need and operator experience to ensure long-term Hydrodemolition success.

"The key to a safe, efficient Hydrodemolition jobsite is thorough training," said Roger Simonsson, AquaJet managing director. "Whether new to Hydrodemolition or a long-time operator looking to keep their skills sharp, customers will find our sales partner in North America, Brokk Inc., offers a number of personalized training options to help maximize machine performance in any application."

Training by a specialized AquaJet technician accompanies the sale of every machine and is tailored to fit the customer's application and experience level. This comprehensive, on-site education provides individuals or small groups with tips and information pertaining to safe, productive operation of the new equipment. Training technicians boast years of experience using AquaJet machines in a variety of applications. This initial training caters to each operator's skill level and covers basic and advanced operating modes, safety for the machine and around high-pressure equipment, maneuvering the machine, reading blasting results and making proper adjustments, and equipment maintenance. Upon successful completion, the trainee will be a licensed AquaJet operator.

Additional training opportunities offer customers a customizable, in-depth curriculum designed to help optimize operations and efficiency. Known as the AquaJet Academy, this multi-day program goes beyond safe operation to focus on six key areas: products, the concrete removal process, streamlining work, safety and technique, service and train the trainer. Academy graduates serve as a resource for their operations with their in-depth knowledge of the Hydrodemolition method and equipment and how to leverage it for a competitive advantage. Again, the curriculum can be customized to the customer's needs and it can be held on-site or at one of the U.S. facilities, in Monroe, Washington; St. Joseph, Missouri; or Stanhope, New Jersey.

### For More Information

Contact: Brokk Inc.

Tel: 1-800-621-7856

Email: [info@brokkinc.com](mailto:info@brokkinc.com)

[www.brokk.com](http://www.brokk.com)

[www.aquajet.se](http://www.aquajet.se)



## New Hilti SDS Max Chisel, Works 3x Longer than Standard SDS Max Chisel

With a state-of-the-art wave design and self-sharpening technology, the new Ultimate SDS Max (TE-YPX) pointed chisel completes Hilti's polygon wave portfolio and delivers ultimate concrete breaking and chiseling performance.

This new generation of chisels helps to increase performance, as its new polygon X-section breaks concrete faster with significantly less sticking, helping contractors tackle the most challenging applications on the jobsite and working up to three times longer than standard concrete chisels available in the market. High-alloy steel and induction hardening technology allows for higher bending strength and break resistance, leading to longer life.

Compatible with all Hilti's SDS Max breakers and rotary hammers, these chisels can be used in several applications, such as light breaking and demolition, openings and enlargements, chipping and surface treatment.

### For More Information

Contact: Danielle Wilson

Tel: 972-202-6178

Email: [Danielle.Wilson@hilti.com](mailto:Danielle.Wilson@hilti.com)

[www.hilti.com](http://www.hilti.com)



# BORN FOR THE TOUGH STUFF

**DON'T JUST CUT. CONQUER**

**800.321.1240**  
**icsdiamondtools.com**

© 2021 ICS | Blount, Inc. Pricing and specifications subject to change without notice.

**ICS**<sup>®</sup> / *Pentrunder*  
**MERIT**

## Sensors & Software + Radiodetection— What does it mean for you?

Sensors & Software was acquired by SPX Corporation and is now part of the Radiodetection business unit. This acquisition builds on the ten-year partnership Sensors & Software and Radiodetection have had together and opens many new opportunities for both organizations.

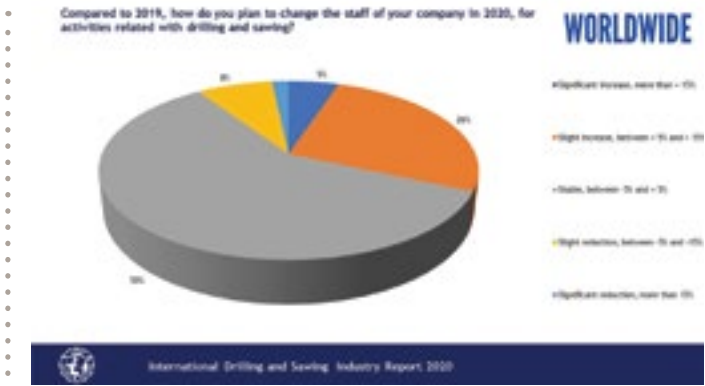
Radiodetection is a worldwide leader in damage prevention and is highly renowned for their Precision Locators & Cable Avoidance Tools for the utility, construction & infrastructure markets. Since the acquisition was announced, we have received several questions from our customers along the lines of “What does this mean for Sensors & Software’s non-utility GPR systems?” Let us assure you that there is no reason for concern. SPX Corporation & Radiodetection are focused on growth, and the purchase of Sensors & Software is a strategic move to build capability and open new markets for the company. One of the reasons that Sensors & Software was an attractive acquisition for Radiodetection is that we operate in areas beyond their current markets, and Radiodetection is committed to maintaining and growing the company’s overall presence in these markets.

Joining the larger SPX family of companies allows us to combine technical expertise in robotics engineering, inspection camera capabilities, GPS mapping technologies, software development, precision locating and ground penetrating radar technology. All of which enable exciting opportunities for future product innovation across many industries.

Although Sensors & Software has always been a global company, with customers and partners all over the world, this acquisition exponentially expands our presence and allows us to take advantage of new reach and resources provided by Radiodetection and SPX corporation. Should you have any questions about your products, how to apply GPR to your specific application areas, or just want to share how you are using our GPR solutions please contact us. The same team you have always worked with is here to provide you with the high level of customer service that you have come to expect from us over the years.

We are all very excited about this relationship and the possibilities it provides for our employees, our business, our future product innovations, and most importantly, you, our valued customers.

**For More Information**  
**Contact: Sensors & Software Inc.**  
**Tel: 800-267-6013**  
**Email: tds@sensoft.ca**  
**www.sensoft.ca**



## IACDS Releases Report Analyzing the Evolution and Trends of the Global Drilling and Sawing Industry

The International Association of Concrete Drilling and Sawers, IACDS, has launched the IACDS Industry Report 2020, analyzing the evolution of the drilling and sawing industry in the world. In addition, it shows trends that help future decision making with more information.

The publication includes information about the evolution of the contractor companies in 2019 and the forecast for 2020, collected through an online survey that was translated into 10 languages to get information from 8 countries about the evolution of this industry.

Thanks to the data provided by National Associations, manufacturers and contractors, the association has produced a visual report with graphics and statistics to show an overview of the situation of the drilling and sawing industry in the world.

The document is only available in online version to allow an interactive navigation adapted to all devices (mobile, tablet and computer) through IACDS website ([www.iacds.org/industry-report/](http://www.iacds.org/industry-report/)).

The International Drilling and Sawing Industry Report 2020 is an effective tool to help stakeholders to increase their knowledge of the business.

**For More Information**  
**Contact: IACDS**  
**Tel: 34 911 294 440**  
**Email: info@iacds.org**  
**www.IACDS.org**

## Keep Warm with LXT® and CXT Heated Jackets and Vests by Makita

Staying warm on the jobsite on cold days can be tough, which can greatly affect you and your crew’s comfort and productivity. Makita 18V LXT and 12V max CXT cordless heated jackets and vests are designed to help keep the freezing temps from slowing you down.

Features:

- Precise Heating Control- the heated jackets and vests offer 3 heat settings (high/medium/low).
- Weather Resistance- the polyester shell for increased wind and water resistance.
- Convenience- the included power source features a USB power port for charging portable electronic devices.

**For More Information**  
**Contact: Makita U.S.A., Inc.**  
**Tel: 800-462-5482**  
**www.makitatools.com**





## Hilti Introduces Industry's Most Powerful SDS-Max Combination Hammer Drill Tool

Hilti North America, a leader providing innovative tools, technology, software and services to the commercial construction industry, expands its rotary and combination hammer tool portfolio with the next generation in its class. The new and improved tool will help commercial contractors and tradespeople drill up to 40% faster in reinforced concrete and demolish more concrete than the competitors in its class.

Understanding the importance of worker safety on a construction jobsite, the SDS-Max combination hammer includes Hilti's exclusive Active Torque Control (ATC) technology, which stops the tool body from spinning uncontrollably if the drill bit jams.

"We know how powerful Hilti tools are so, as we continue to deliver solutions to our customers, safety and productivity remain top of mind," said Eric Hollister, Senior Director of Electric Tools & Accessories at Hilti North America. "The tool provides users with the lowest vibration in its class while maintaining best-in-class performance. This will reduce the risk of potential injury during application and help increase daily productivity." The tool is also equipped with Hilti's Active Vibration Reduction (AVR), a technology that makes it less tiring to use.

The TE 70-ATC/AVR is strong enough to take on the most challenging applications, without sacrificing performance or ergonomics. With the fourth generation, Hilti customers will experience a premium performance – a hard-hitting, faster drilling tool that will help get the job done quicker than ever before. Users will unlock the full power of the SDS-Max combination hammer with the optimized durability and exceptional strength of Hilti's TE-YX bits and new TE-YPX flat and pointed chisels designed specifically to withstand the power of this new tool. The state-of-the-art wave design, polygon construction, and self-sharpening technology of the TE-YPX (SDS Max) chisels offer high break resistance, virtually no sticking or jamming, and less stopping to sharpen or change broken chisels.

**For More Information**  
**Contact: Danielle Wilson**  
**Tel: 972-202-6178**  
**Email: [danielle.wilson@hilti.com](mailto:danielle.wilson@hilti.com)**  
**[www.Hilti.com](http://www.Hilti.com)**



THE **ONLY** PRODUCT FOR  
**SLURRY**  
THAT ABSORBS  
**IT'S WEIGHT**

[info@GelMaxxUSA.com](mailto:info@GelMaxxUSA.com) | (855) 322 3335 | [GelMaxxUSA.com](http://GelMaxxUSA.com)

## International Grooving & Grinding Association Elects New Board Members for 2021

The International Grooving & Grinding Association (IGGA), a non-profit organization dedicated to serving as the leading technical and promotional resource for acceptance of diamond grinding and grooving as well as pavement preservation and restoration – has announced the election of new board members for 2021.

The complete board of directors for 2021 are as follows:

President: Kevin Schneider – Acme Concrete Paving (Spokane, Wash.)

Vice President Jake Steinberg - Highway Materials (Becker, Minn.)

Secretary: Dan Iverson – Diamond Products (Elyria, Ohio)

Treasurer: Scott L. Eilken – Quality Saw & Seal (Bridgeview, Ill.)

Director: Al Adamek – Diamond Surface (Rogers, Minn.)

Director: Jerry Voigt – American Concrete Pavement Association (Rosemont, Ill.)

International Director – Charley Grady – Crafcro, Inc. (Chandler, Ariz.)

"We welcome and congratulate our newly elected board of directors," said John Roberts, executive director of the IGGA. "This very talented group will help our association make the world's roadways and airports safer, smoother and more sustainable."

**For More Information**  
**Contact: Kristin Dispenza**  
**Tel: 248-516-1105**  
**Email: [Kristin.dispenza@aoteam.com](mailto:Kristin.dispenza@aoteam.com)**  
**[www.IGGA.net](http://www.IGGA.net)**



## OPERATOR CERTIFICATION

CSDA's Operator Certification is a comprehensive six-day program that combines detailed classroom instruction with on-slab demonstration and evaluation of advanced concrete cutting techniques. Safety, proper equipment use and efficiency are emphasized. CSDA certified operators are recognized industry-wide for their proficiency in the full range of sawing and drilling applications.

## MINIMUM REQUIREMENTS

- Successful completion of CSDA Cutting Edge, Slab Sawing & Drilling 101, Wall Sawing 101 or Wire Sawing 101
- Three years field experience (4,500 hours)
- Successful completion of 10-hour OSHA Construction Safety course
- No more than one lost-time injury within the last three years
- Unrestricted driver's license
- Negative drug test within 30 days of taking the course



**A-1 CONCRETE CUTTING & CORING LTD.**  
Calgary, AB, Canada

**ACCU-CUT CONCRETE SERVICES, INC.**  
Clearwater, FL

**ACE CONCRETE CUTTING**  
Cumberland, RI

**AGGREGATE TECHNOLOGIES, INC.**  
Houston, TX

**AMERICAN EAGLE CONCRETE SERVICES**  
Orlando, FL

**AUSTIN ENTERPRISE**  
Bakersfield, CA

**BAY LINE CUTTING & CORING, INC.**  
San Francisco, CA

**CHESCO**  
Malvern, PA

**COBRA CONCRETE CUTTING SERVICES**  
Arlington Heights, IL

**CON-COR CO., INC.**  
Falls, WI

**CONCRETE CUTTING & BREAKING**  
Jacksonville, FL

**CONCRETE CUTTING SPECIALISTS**  
Freeland, MI

**CONCRETE RENOVATION, INC.**  
San Antonio, TX

**CONQUEST DEMOLITION**  
Buda, TX

**CONSTRUCTION DEBRIS REMOVAL, INC.**  
St Augustine, FL

**CR MEYER**  
Oshkosh, WI

**DELTA CONTRACTORS & ASSOCIATES, LLC**  
Owings Mills, MD

**DIXIE CONCRETE CUTTING, INC.**  
College Park, GA

**DIXIE CONCRETE CUTTING, INC.**  
Greenville, SC

**E. LUKE GREENE COMPANY, INC.**  
Johnson City, TN

**ECHO GPR SERVICES**  
Paola, KS

**FINE CUT CONCRETE DRILLING AND SAWING LLC**  
Pleasant Hill, MO

**FORRISTALL**  
Bradenton, FL

**HAFNER & SON, INC.**  
Danielsville, PA

**HARD ROCK CONCRETE CUTTERS**  
Wheeling, IL

**HOLES INCORPORATED**  
Houston, TX

**HOLES OF SAN ANTONIO, INC.**  
San Antonio, TX

**INTERNATIONAL DRILLING & SAWING, INC.**  
Pensacola, FL

**JACK DOHERTY CONTRACTING**  
Woburn, MA

**KRAUS-ANDERSON CONSTRUCTION CO.**  
Minneapolis, MN

**MAVO CONCRETE SAWING SERVICES, INC.**  
Edgar, WI

**M6 CONCRETE CUTTING & CORING**  
Wichita, KS

**NEIL'S CONCRETE CUTTING, INC.**  
Taylorsville, UT

**PG CUTTING SERVICES**  
Lake Elsinore, CA

**TRUE LINE CORING AND CUTTING OF MARYLAND, INC.**  
Baltimore, MD



## COMPANY CERTIFICATION

The CSDA Company Certification Program is the first of its kind in the industry. This program has been created for cutting contractors to provide owners, architects, engineers, general contractors and government officials with a valuable pre-qualification tool that acknowledges sound business practices. It is available to all sawing and drilling contractors.

## A COMPANY MUST MEET THE FOLLOWING CRITERIA TO ACHIEVE CERTIFICATION:

- Meet the basic safety and insurance requirements of the industry
- Undertake sound operational and financial best practices
- Provide evidence it has taken part in basic training or certification programs to better its employees and the company as a whole
- Successfully pass a written application review

**ADVANCED CONCRETE SAWING**  
St. Paul, MN

**AMERICAN GPR SERVICES LLC**  
Avondale, AZ

**AUSTIN ENTERPRISE**  
Bakersfield, CA

**CENTRAL CONCRETE CUTTING, INC.**  
Edgar, WI

**COBRA CONCRETE CUTTING SERVICES CO.**  
Arlington Heights, IL

**CONCRETE CUTTING SYSTEMS, INC.**  
Philadelphia, PA

**CONCRETE CUTTING SYSTEMS,  
PITTSBURGH INC.**  
Pittsburgh, PA

**DIACORE CONCRETE CUTTING  
SPECIALISTS**  
Frenchs Forest, NSW, Australia

**ECHO GPR SERVICES**  
Paola, IL

**HARD ROCK CONCRETE CUTTERS, INC.**  
Wheeling, IL

**HARD ROCK CONCRETE CUTTING**  
Raleigh, NC

**HOLES INCORPORATED**  
Houston, TX

**IN-PLACE MACHINING COMPANY, LLC**  
Batavia, OH

**INTERNATIONAL DRILLING & SAWING, INC.**  
Pensacola, FL

**ONLINE CONCRETE CUTTING SERVICES PTY. LTD.**  
Seven Hills, NSW, Australia

**WALKER CUTTING SERVICES**  
Hammonton, NJ



## GPR CERTIFICATION

GPR Certification is for experienced GPR technicians who have expanded their knowledge of the methods, theory and practical application of GPR imaging. Certified technicians receive classroom and hands-on time with experienced instructors and representatives from leading GPR manufacturers.

## A GPR CERTIFIED OPERATOR:

- Has shown proficiency in performing scans and reading and interpreting results
- Can select the appropriate GPR scanner for the job
- Passed a written and practical test
- Was issued a certification card upon completion of the class

**ADVANCE CONCRETE SAWING**  
Saint Paul, MN

**AMERICAN GPR SERVICES, LLC**  
Avondale, AZ

**BREAK AWAY CONCRETE CUTTING INC.**  
Coyote, CA

**CANADA CUTTING CORING & STABILIZATION LTD.**  
Regina, SK, Canada

**COBRA CONCRETE CUTTING SERVICES CO**  
Arlington Heights, IL

**CONCRETE CORING CO. OF CINCINNATI, INC.**  
Cincinnati, OH

**CONQUEST DEMOLITION**  
Buda, TX

**CSDT**  
Sandy Bay, TS, Australia

**DALY CONCRETE CORING LIMITED**  
Courtice, ON, Canada

**ECHO GPR SERVICES**  
Paola, KS

**FINE LINE SAWING & DRILLING INC.**  
Newark, CA

**HARD ROCK TECHNOLOGIES, INC.**  
Prospect Heights, IL

**HOLES INCORPORATED**  
Houston, TX

**IDS GEORADAR NORTH AMERICA**  
Golden, CO

**INTERNATIONAL DRILLING & SAWING, INC.**  
Pensacola, FL

**MAREK SAWING & DRILLING, LLC**  
Spring, TX

**MAVERICK CUTTING AND BREAKING**  
Minneapolis, MN

**MAVO CONCRETE SAWING SERVICES, INC.**  
Edgar, WI

**SAUNDERS CONTRACTING SERVICES INC.**  
Hampton, VA

**SCAN TEK GPR**  
Davie, FL

**SKYLINE CONSTRUCTION AND RESTORATION CORP.**  
Miami, FL

**SOUTHEAST SCANNING & CORING**  
Norcross, GA

**VERIFY LOCATING/SAF-CUT**  
Raleigh, NC



### CONTRACTOR:

**CENTRAL MINNESOTA SAWING LLC**  
Clear Lake, MN

**CONCRETE CUTTING CO**  
Litchfield Park, AZ

**DRILLING & SAWING SERVICES, INC**  
Kennewick, WA

**DYNAMIC SAWING & CORING LLC**  
Burlington, ND

### GPR CONTRACTOR:

**GPR4U LLC**  
Dacula, GA

### OVERSEAS CONTRACTOR:

**RAZOR CUT CONCRETE CUTTING & DRILLING PTY LTD**  
Mackay, Queensland, Australia

## MEMBER BENEFITS



### SAFETY RESOURCES AND TOOLBOX SAFETY TIPS (TSTs)

- 230-page CSDA Safety Manual
- Safety Handbook in English/Spanish
- Safety Videos for concrete cutters
- Over 100 Toolbox Safety Tips (TSTs)



### DISCOUNT PROGRAMS

The Association negotiates member benefit programs with national vendors like Staples, UPS and V-beltsupply.com in order to provide cost-savings opportunities for CSDA Members

### AT THE ANNUAL CONVENTION AND QUARTERLY MEETINGS

The number one benefit for members has always been the opportunity to network with cutting professionals at the annual convention and quarterly meetings. This networking provides opportunities to forge new relationships and learn from other experienced professionals.

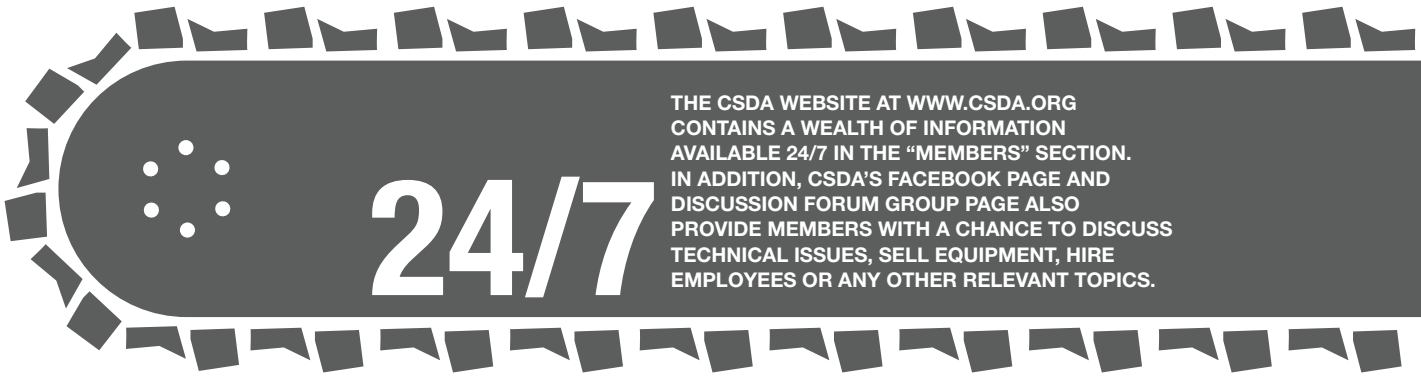
## NETWORKING



### NEXT GEN

#### CSDA NEXT GENERATION GROUP

The group aims to continue the growth of the association while serving the needs and wants of the younger generation, with the goal of continuing to set a standard of excellence.



# 24/7

THE CSDA WEBSITE AT [WWW.CSDA.ORG](http://WWW.CSDA.ORG) CONTAINS A WEALTH OF INFORMATION AVAILABLE 24/7 IN THE "MEMBERS" SECTION. IN ADDITION, CSDA'S FACEBOOK PAGE AND DISCUSSION FORUM GROUP PAGE ALSO PROVIDE MEMBERS WITH A CHANCE TO DISCUSS TECHNICAL ISSUES, SELL EQUIPMENT, HIRE EMPLOYEES OR ANY OTHER RELEVANT TOPICS.

## MEMBER TESTIMONIAL

A-Core's affiliation with the CSDA goes back decades. Our founder became heavily involved in the CSDA in the 1980s and served as President of the association in 1988. Trying to put into words, the value of being a member is a challenge because the benefits of being part of the CSDA are endless. The key advantages that we get from being a member are the networking opportunities, education and training materials, as well as the support of our industry. A-Core is proud to be a member of the CSDA and we look forward to the continuing success that will inevitably come in the future.



**Brandon Bailey | Regional Operations**  
A-Core Concrete Specialists Inc.

## TRAINING

OVER 4,000 INDUSTRY PROFESSIONALS HAVE GRADUATED FROM MORE THAN 20 CLASSROOM, HANDS-ON AND ONLINE CSDA TRAINING AND CERTIFICATION PROGRAMS FOCUSED ON CUTTING DISCIPLINES, ESTIMATING, POLISHING AND SAFETY. ONLINE TRAINING AT [WWW.CSDATRaining.COM](http://WWW.CSDATRaining.COM) OFFERS A COST-EFFECTIVE ALTERNATIVE TO THOSE NOT ABLE TO AFFORD THE TIME OR THE MONEY TO SEND OPERATORS TO CLASSES.



## DUES SCHEDULE

REGISTER ONLINE AT [WWW.CSDA.ORG](http://WWW.CSDA.ORG)

GROSS SALES	NORTH AMERICAN CONTRACTOR	POLISHING CONTRACTOR	GPR IMAGING CONTRACTOR	MANUFACTURER	DISTRIBUTOR	OVERSEAS CONTRACTOR	AFFILIATE
\$0 - 1M	\$715	\$715	\$715	\$1,505	\$1,095	\$450	\$875
\$1 - 2M	\$1,135			\$1,860	\$1,395		
\$2 - 3M	\$1,740	\$1,425	\$1,425	\$2,765	\$2,070		
\$3 - 5M	\$2,335			\$4,425	\$3,330		
\$5 - 10M	\$2,955	\$3,705	\$3,705	\$5,985		\$7,375	
> \$10M	\$3,705			\$7,375			



For more information about CSDA membership, visit [www.csda.org](http://www.csda.org), call 727-577-5004 or email [info@csda.org](mailto:info@csda.org).



**CSDA Virtual Networking Happy Hour and Wine Tasting**

**March 25, 2021**

Virtual  
Tel: 727-577-5004  
Email: info@csda.org

**CSDA Fall Board & Committee Meetings**  
**September 2-3, 2021**  
Seattle, WA  
Tel: 727-577-5004  
Email: info@csda.org

**CSDA Roundtable**  
**April 22, 2021**  
Employee On-boarding  
Virtual  
Tel: 727-577-5004  
Email: info@csda.org

**OSHA Safe + Sound Week**  
**August 9-15, 2021**  
Tel: 727-577-5004  
Email: info@csda.org

**CSDA Webinar**  
**May 27, 2021**  
Construction Market Outlook for the Concrete Renovation Industry  
Virtual  
Tel: 727-577-5004  
Email: info@csda.org

**CSDA Winter Board & Committee Meetings**  
**Dec 1-2, 2021**  
Nashville, TN  
Tel: 727-577-5004  
Email: info@csda.org



**World of Concrete**  
**June 7-10, 2021**  
Las Vegas Convention Center  
Las Vegas, NV  
Tel: 727-577-5004  
Email: info@csda.org

**World of Concrete Asia**  
**November 30-December 2, 2021**  
Shanghai New International Expo Centre  
Shanghai, China  
Tel +86 21 6157 7250  
Email: info@wocasias.com



**Canadian Concrete Expo**  
**February 17-18, 2022**  
The International Centre  
Toronto, ON  
Tel: 519-300-2635  
Email: rod@exposition.com

# concrete openings



THE OFFICIAL MAGAZINE OF 

### Who Reads the Magazine?

*Concrete Openings* reaches cutting, polishing and imaging contractors as well as specifiers of these services, including engineers, architects, general contractors and governmental agencies. Why waste your message on unnecessary circulation? Advertising in *Concrete Openings* guarantees a targeted audience of industry professionals.

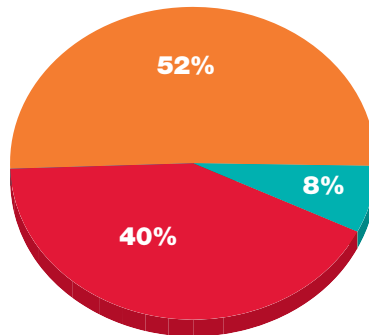
### Target the Specialized Industry of Concrete Cutting, Polishing and Imaging

Advertising in *Concrete Openings* magazine is the only way to reach the specialty market of cutting, polishing and imaging contractors who work with concrete, asphalt or masonry because it is specifically targeted to this segment of the industry.

### How Do You Reach 19,000+ Concrete Industry Professionals?

Each issue of *Concrete Openings* magazine is sent to more than 12,000 operators, equipment manufacturers and suppliers in the concrete cutting, polishing and imaging industry, and more than 7,000 specifiers of these services around the world.

### READERSHIP BY PROFESSION



- Specifiers
- Contractors
- Manufacturers, Distributors

### CSDA Social Media

CSDA's social media pages are packed with all the latest news, updates, photos and videos from the association and *Concrete Openings* magazine. Look out for exclusive content and become "friends" with others who are looking to network and promote the sawing and drilling industry. Join our growing fan base and stay in touch with the association through your PC, laptop or mobile device. Find direct links to these pages at [www.csda.org](http://www.csda.org).



### Circulation

- 19,000+** minimum, per issue
- 12,000+** member and prospective member companies made up of contractors, manufacturers, distributors and affiliates
- 7,000+** general contractors, engineers, architects and government officials who specify cutting, polishing and imaging



### Readership Per Issue

A poll of *Concrete Openings* subscribers revealed that 66% pass on their copy of the magazine to at least one other person, with almost 25% stating that the magazine is passed on to four or more people each issue. This translates to an average of four people reading each issue of the magazine for a total readership per year of approximately 60,000.



### Concrete Openings Website

Visitors to the *Concrete Openings* website can access our advertisers at the touch of a button!

As a compliment to your ad placement, we include a direct link to your website on our Advertisers page. *Concrete Openings* also offers banner advertising opportunities throughout the year and a full, page-turning copy of the magazine, including ads, available for visitors on the website.

Visit [www.concreteopenings.com](http://www.concreteopenings.com) for more information.

## Not a Subscriber?

Get your free subscription today!

Visit [www.concreteopenings.com](http://www.concreteopenings.com) and click "subscribe."

# Advertisers

To receive additional information about products advertised in this issue, contact the vendors below.

PAGE	ADVERTISER	PHONE	EMAIL
23	AquaJet	800-621-7856	keith.armishaw@brokkinc.com
22	Brokk, Inc.	206-999-7330	mike@brokkinc.com
Inside Front Cover, 24-25 Inside Back Cover	Diamond Products Limited	800-321-5336	jpalmer@diamondproducts.com
31	Diamond Vantage	866-322-4078	tlaidlaw@diamonadvantage.com
21	EDCO- Equipment Development Co., Inc.	301-663-1600	moran@edcoinc.com
39	GelMaxx	855-322-3335	info@gelmaxxusa.com
5	GSSI-Geophysical Survey Systems, Inc.	603-893-1109	lighthallj@geophysical.com
2, Back Cover	Husqvarna Construction Products	913-928-1000	cate.stratemeier@husqvarnagroup.com
37	ICS, Blount, Inc.	1-800-321-1240	jessica.gowdy@blount.com
21	Lissmac	518-326-9094	a.jung@lissmac-corporation.com
47	Real Power	317-443-0805	dsmith@realacpower.com
13	Vacuworx	918-259-3050	requests@vacuworx.com

## CSDA Launches NEW Online Training Site!

Check out our updated Cutting Edge course—perfect for your new hires, operators with less than two years of experience or anyone who needs to learn more about diamond tools. The course is completely online and can be taken at the student's own pace.

This course covers:

- Intro to Concrete Cutting
- Diamond Tools and Technology
- Slab Sawing, Core Drilling and Wall Sawing
- Troubleshooting Tips
- Jobsite Safety

Discounted pricing for CSDA members and bulk pricing packages available.

**Visit [csda.org/onlinetraining](http://csda.org/onlinetraining) to learn more and sign up!**





# TAKE BACK YOUR TRUCK



- ✓ 60KW TO 180KW SYSTEMS
- ✓ 80% LESS WEIGHT
- ✓ 50% MORE HAULING CAPACITY
- ✓ CUSTOM POWER DISTRIBUTION
- ✓ NEARLY ZERO ROUTINE MAINTENANCE
- ✓ PTO RELIABILITY BUILT-IN

REALACPOWER.COM | (877) 670.7325

**REALPOWER**

# The Light at the End of the Tunnel

**ERIN O'BRIEN**  
*Executive Director*



**H**appy New Year! As we leave 2020 behind, it's time to look at what 2021 might have in store for us. I'm not thrilled with Q1—postponed WOC, cancelled CSDA Convention, still effective on heavy travel restrictions and still no definitive end in sight. So I find myself looking for hope, for that light at the end of the tunnel, which seems to keep getting further and further away. I'm sure many of you feel it, too.

But there is reason for hope and to believe that light is getting closer. New COVID cases are going down, the vaccine rollout is progressing, events are tentatively being added to the calendar again and spring is just around the corner. In 2022, CSDA will celebrate its 50th Anniversary, and we look forward to celebrating with all of you. But until then, we still have much to celebrate.

Our long-awaited update and revision of the online Cutting Edge course is finally complete! We are pleased to announce a brand-new training website that will provide info for not only our popular hands-on and in-person courses, but also for our new line-up of online courses. We lead off with Cutting Edge, which serves as an introduction to the diamond tool industry and concrete sawing and drilling methods. This is a great course for your new hires or even your industry vets who could benefit from additional knowledge of diamond tools and technology. Cutting Edge serves as a pre-requisite for our hands-on Sawing & Drilling 101 and Operator Certification courses, and can be

completed online at the operator's convenience. You can learn more about Cutting Edge and all the courses CSDA offers at [csda.org/onlinetraining](https://csda.org/onlinetraining).

Spring 2021 also marks the transition to new leadership in CSDA, with the election of six new Board of Director members and a new slate of Officers. I'd like to welcome Mike Orzechowski as the new CSDA President. I have worked closely with Mike over the past several years and am looking forward to continuing to do so through his term. I'd also like to thank Matthew Finnigan, our outgoing President, as he completes his term. Matthew and I both faced unprecedented challenges in our respective roles, as he had to battle pandemic-related challenges through much of his Presidency, such as the cancellation of two Annual Conventions, the shift to virtual meetings for almost all Board and committee meetings and the financial challenges faced by CSDA as these events affected our normal business operations. I was faced with the same challenges just two months into my tenure as Executive Director. Through the hard work, dedication and commitment to progress the past year, CSDA has been able to adjust to the current climate and remain a significant player in the concrete renovation industry. I'd like to thank Matthew and the entire Board of Directors for that accomplishment.

The light at the end of the tunnel is getting closer! Hang in there everyone, and I hope to see you in June at the World of Concrete!

# RELIABLE PERFORMANCE

## FIRST-CUT EARLY ENTRY PRODUCTS

6"/6.5"

CC150XL-EE  
with 4.8HP Honda



10"/12"/14"

CC190PRO-EE  
with 20.8HP Honda



## GET IT DONE FIRST

### CC150XL-EE

Diamond Products' CC150XL-EE gets you on and off the job first. This light-weight and portable early entry saw is easy to use and easy to maintain. Offering five wheels under the frame gives you more stable and reliable cutting. The up-cut design keeps debris out of the cut. A vacuum port guard plate is included standard for jobs that require a cleaner environment. Available with gas Honda and Briggs Vanguard engines along with electric Baldor motors.

### CC190PRO-EE

The CC190PRO-EE is a reliable, hard-working saw for that large green concrete job. With up to 3-5/8" cutting depth with a 14" blade, there is no need to worry about your joints. This is suitable for flooring in large buildings and that new highway on-ramp. Built with a 20.8 horsepower gas honda engine, performance is guaranteed. The First-Cut Skid Plate Guard System keeps your concrete from spalling and gets you on the job first.

### Diamond Blades and Skid Plates

Check out our full line of early entry diamond blades. Ranging from 6 inch diameter to 14 inch, we have you covered when cutting green concrete. Featuring a 1 inch and triangle arbor, these blades fit our First-Cut saws and other early entry saws. Available with or without skid plate and six different bond specifications.



Diamond Products Ltd.  
333 Prospect St.  
Elyria, OH 44035 U.S.A.  
800-321-5336  
diamondproducts.com

HUSQVARNA  
CONSTRUCTION  
EQUIPMENT



FLAT SAWS



POWER CUTTERS



CORE DRILLS



SURFACE PREP



DUST & SLURRY



DEMOLITION



Husqvarna



DOWNLOAD OUR  
NEW CATALOG TODAY

# START THE NEW YEAR WITH HUSQVARNA

When you invest in Husqvarna Construction Products' equipment and diamond tools, you will have a whole fleet of products that hold up job after job, are easy to use, and easy to maintain.

Not to mention our Fleet, Upcare, financing services, technicians and support teams to back you up.

This all keeps your business moving forward.

**TO LEARN MORE CONTACT YOUR REP OR VISIT [WWW.HUSQVARNACP.COM](http://WWW.HUSQVARNACP.COM)**

hpcustomer.service@husqvarnagroup.com or visit [www.husqvarnaccp.com](http://www.husqvarnaccp.com) to learn more  
Copyright © 2021 Husqvarna AB (publ.). All rights reserved. Husqvarna is a registered trademark of Husqvarna AB (publ.).

