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PROFESSIONAL DEMOLITION AMERICAS

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Your Gateway to North, Central & South America

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# Looking for Comprehensive Market Information?



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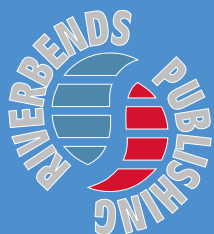
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# Don't Just Chase Butterflies in 2021, Be One "Hindsight is 20/20"

Rarely, if ever, has there been a more apt expression for reflecting on the events of the past 12 months, a roller-coaster ride of a year will rarely be discussed or contemplated without accompanying slow shakes of the head.

Whether you, your family, and your business were fortunate enough to escape the year relatively unscathed, or if tragedy and disappointment touched your life, it's obviously impossible to hit the proverbial RESET button or simply forge ahead as if nothing happened.

Yet, I'm not a fan of the term "new normal," because "normal" is relative and changes on a moment-to-moment basis. Our individual sense of normal is influenced by decisions both large and small—a casual high school flirtation that turns into a lifelong marriage, or the offhand observation about a work process that eventually turns into a profitable service line.

If you believe in the "butterfly effect"—the postulation that the flap of a butterfly's wings might ultimately cause a tornado—you know that much of what drives "normal" is beyond our control. An examination of business trends, for example, might reveal that the uptick in industrial construction in your market can be traced back to the reformulation of a popular toothpaste mixture. (If you have any doubts, check out the old TV series, "Connections.")

Fortunately, our lives and businesses aren't totally at the whim of chance. There are things we do both consciously and instinctively that can improve the quality of our lives and those we care about, and the success of our businesses.

That's where the "2020 hindsight" comes in. While not all of the

past year's changes and events are permanent, they'll likely shape what we do and how we do it for some time. And whether your construction and demolition business is slowed or roaring, a look back at 2020's experiences will likely provide more control over what's to come.

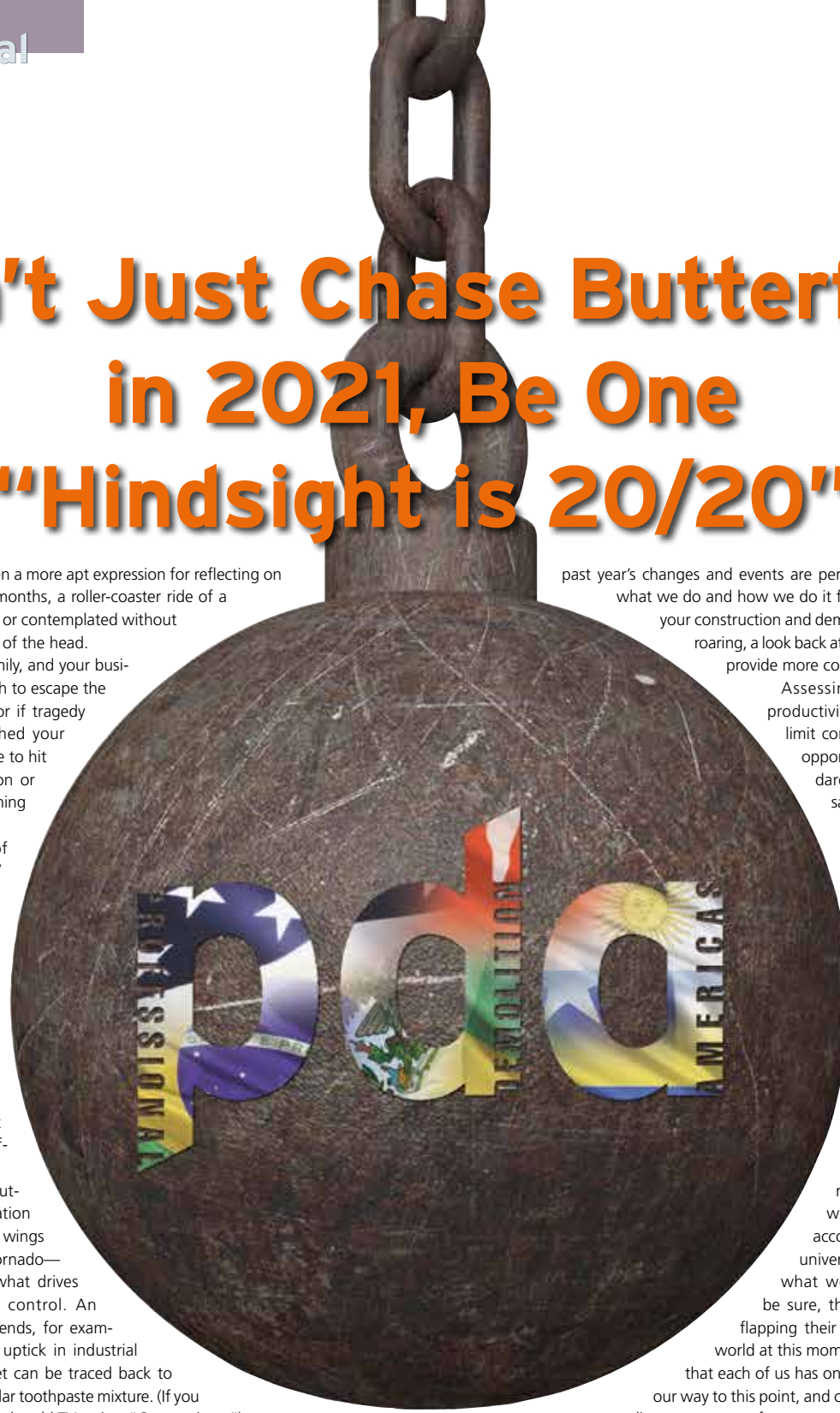
Assessing the effectiveness and productivity impacts of measures to limit coronavirus spread may reveal opportunities to make them standard parts of your health and safety program, making your business more attractive to both employees and prospective clients with their own safety concerns and requirements. Similarly, you may have avoided a large capital outlay by keeping existing equipment in use last year, but how much of that cost avoidance was lost to extra maintenance, compromised performance, or worker downtime?

Hopefully in twelve months, we'll ring out 2021 with fonder memories and accomplishments, making for a universally better "normal" than what we're dealing with now. To be sure, there are a lot of butterflies flapping their wings in all corners of the world at this moment. But let's also remember that each of us has one way or another "flapped"

our way to this point, and can do far more than we may realize to secure a safer, more robust "normal" than we may have ever realized.

And with the right wind, 2021 can be a year for each of us to truly soar.

**Jim Parsons, Senior Editor**  
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# AQUA CUTTERS

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## Welcome to the world of Cutting Edge Hydrodemolition

Using a high-pressure water jet, the hydrodemolition technique removes deteriorated material, ranging from concrete to coatings.

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PdA Magazine is pleased to present regular updates from the US National Demolition Association. This column comes from NDA Executive Director Jeff Lambert.

## NDA is reimagining the March, 2021 Annual Convention

NDA is reimagining our Annual Convention to allow you to come together as a community during this unprecedented time. Demolition New Orleans will take place March 3-4 in a reimagined outdoor environment with an extended two-day Live DEMOLition Event. Following all state and federal safety guidelines, Demolition New Orleans will give you the opportunity to test equipment in real time, meet with vendors and other contractors, and stay on top of trends and legislation impacting the demolition industry in 2021. Registration is now open. Visit [demolitionassociation.com/convention](http://demolitionassociation.com/convention) to learn more about this event and how we are making safety our number one priority.

NDA held two virtual Foundations of Demolition courses this fall: the Foundations of Demolition Risk Management Course, Nov. 19-20, 2020, and the Foundations of Demolition Estimating Course, Dec. 3-4, 2020. We had approximately 35 attendees for the Foundations of Demolition Risk Management Course and 41 attendees for the Foundations of Demolition Estimating Course. These courses are one way NDA has continued to deliver member value during the pandemic.

We are planning to host in-person education next year and will follow all safety and health guidelines relating to COVID-19. Please save the following dates:

- \* Foundation of Demolition – Project Management Course, April 28- 29 in Atlanta

- \* Foundations of Demolition – Job Cost Tracking Course, April 30 in Atlanta

Registration for both courses will open in February. Find more information on all Foundation of Demolition courses online at [demolitionassociation.com/foundationsofdestruction](http://demolitionassociation.com/foundationsofdestruction).

World of Concrete has announced new dates for the conference, June 7-10 in Las Vegas. NDA is slated to offer the Foundations of Demolition Risk Management Course at this event. Our partnership with World of Concrete allows us to reach the larger construction industry with our world-class education. If you plan to attend, please register for our course and help spread the word. Learn more at [www.worldofconcrete.com/en/attendee.html](http://www.worldofconcrete.com/en/attendee.html).

Our certification efforts continue to move forward. We have a knowledgeable and experienced cross-section of volunteers to serve as subject matter experts to begin the certification process. Our next step is to select a third-party evaluator. We will hold our committee kickoff meeting in early 2021 and will begin to map out the parameters for certification. This is a huge step forward for our industry. The certification will elevate the industry and recognize the knowledge and experience professionals bring to each job.

As Congress continues to negotiate COVID-19 relief and other key issues for the demolition industry, I encourage you to take action and contact your elected officials in support of the demolition industry's legislative priorities. To date, nearly 100 members have taken action. Join us at [tinyurl.com/NDA-Take-Action](http://tinyurl.com/NDA-Take-Action).

Do you know a contractor who is not an NDA member? NDA offers many year-round benefits that help contractors stay relevant in industry and build relationships that advance business. Contact me directly to learn more about membership with NDA. [jlambert@demolitionassociation.com](mailto:jlambert@demolitionassociation.com).

Jeff Lambert

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



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

Jeff Keeling has joined Brokk as 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," says 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 says. "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."

Keeling resides in Olathe, Kansas with his family.

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

## Intermat Paris Cancels 2021 Show; Looks Ahead to 2024

With the coronavirus pandemic likely to persist well into 2021, organizers of the triannual INTERMAT Paris construction equipment exposition have elected to cancel this year's show, and instead focus returning the event as scheduled in 2024.

Calling the move a "difficult decision" made following consultations with industry professionals and exhibitors, INTERMAT organizers nevertheless cited lingering uncertainties about the local and global public health environment in the coming months as being uncondusive to holding the show in full confidence as planned April 19-24.

"While many French and foreign exhibitors...had already confirmed their participation at the 2021 show, the con-

straints in April remained too disadvantageous to allow the show's organization proceed smoothly," the organizers added in a statement. Though exact dates for INTERMAT Paris 2024 have not been set, organizers promise that an event with "its ambition as strong as ever, to represent an international and forward-looking showcase for innovation to conquer the construction markets of the future."

The absence of INTERMAT Paris makes Bauma 2022 (April 4-10) in Munich the next major international construction equipment exhibition. In the U.S., the rescheduled World of Concrete remains on track for June 8-10.

[www.intermat.fr](http://www.intermat.fr)





## Let the robot do the hard work!

Our mission has always been to develop a solution that removes concrete for the restoration of bridges, tunnels, parking decks and other structures, in a safe and sustainable manner where no micro-cracks are created, leaving a surface ideal for bonding of new concrete.

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

## Event Calendar

### The Ara Show 2021

Oct 18-20, 2021  
Las Vegas Convention Center,  
Las Vegas, Nevada

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

### NDA Annual Convention 2021

March 4-7, 2021  
New Orleans, Louisiana

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

### Samoter 2021

March 3-7, 2021  
Verona, Italy

[www.samoter.it](http://www.samoter.it)

### Bebosa Show

April, 15-17, 2021  
Willingen, Germany

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

### Intermat 2024

April, 2024  
Villepinte, Paris Nord,  
France

[www.intermat.fr](http://www.intermat.fr)

### ISRI 2021 - Virtual

April 20-22 and 27-29, 2021  
Mandalay Bay, Las Vegas, USA

[www.isri2021.com](http://www.isri2021.com)

### CSDA 2021 Convention & Tech Fair

March 2-6, 2021  
Hamilton princess Resort &  
Beach Club, Hamilton,  
Bermuda

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

### World of Concrete 2021

June 8-10, 2021  
Las Vegas Convention Center,  
Las Vegas, Nevada

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

### DEMCON 2021

September 9-10, 2021  
InfraCity, Bredden,  
Stockholm, Sweden

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

### Concrete Show Brazil 21

September, 2021  
São Paulo Expo, São Paul, Brazil

[www.concreteshow.com.br](http://www.concreteshow.com.br)

### ISRI 2022

March 21-24, 2022  
Mandalay Bay, Las Vegas, USA

[www.isri2022.com](http://www.isri2022.com)

### BAUMA 2022

April 4-10, 2022  
Munich Exhibition Center,  
Munich, Germany

[www.bauma.de](http://www.bauma.de)



## GSSI Notches 2nd New Hampshire "Best Company" Award

For the second year in a row, GSSI has been named the Best Company to Work For in New Hampshire by Business NH Magazine. The annual competition recognizes large and small businesses that have created outstanding work environments. GSSI was named to the winner's list based on its commitment to creating a great company culture that supports employees professionally and personally, listens to ideas and concerns, and works through challenges.

"GSSI has lived by a core value of doing right by our customers for more than 50 years, and in the unprecedented challenges posed by the Coronavirus pandemic, our employees have really stepped up to provide service and support to our customers and each other," says GSSI president Christopher Hawekotte.

During a recent GSSI marketing video shoot, employees were asked to describe the company in one word. The responses they

gave embody what makes GSSI such a great place to work – dynamic, fun-geeky, fantastic, unique, passion, innovative, opportunity, perfect, awesome, wonderful, community, family, friends, and—most important—home.

GSSI is known for its focus on flexibility and work/life balance, with employees and their managers working together to determine what schedules work best for the individual and the team. Never has this been as important as during the period of the COVID-19 pandemic, when GSSI's employee-centered culture was strengthened even further. A Peloton bike and membership proved extremely popular throughout the COVID-19 shutdown, enabling employees to take on-demand classes from their homes, including offerings such as yoga, strength training, meditation, running, and biking. Another unique GSSI benefit that proved popular this year is a pet adoption reimbursement program, in which

GSSI reimburses employees up to \$500 per calendar year for the costs associated with adopting a dog or cat from an animal shelter.

GSSI also supports employees with a training and development program that includes tuition reimbursement, leadership training sessions, seminar and webinar subscriptions, and trade courses and certification. Employee celebrations are another key feature of GSSI, albeit modified this year due to social distancing protocols. Welcoming each new staff member with a special lunch, fun-filled employee appreciation events, and annual celebrations at the Employees Appreciation Day and Holiday party are just a few examples. A regularly scheduled "Lunch with the President" program builds connections and enables employees to provide direct input and feedback to senior management.

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

## Liebherr Adds Klemola as New Manager of Mining Division Field Services

Liebherr USA Mining is pleased to announce the addition of Lincoln Klemola as Manager of Field Services. Based out of the Liebherr USA, Co. western operations office for mining sales and service in Gillette, Wyoming, Klemola will oversee and manage customer support for Liebherr Mining machines in the US, including leading the entire service and support team, and expanding the company's current growth strategy.

Klemola has more than 20 years' experience in the mining industry. Throughout his career, he has held previous managerial positions in service and training for a large industrial machinery and equipment distributor. His extensive experience and accomplishments encompass all areas of the supplier business. From increasing profitability of diverse product lines, leading customer service teams and service technicians in

service and repair of mining equipment, working with OEM's and manufacturers to promote products, providing customer solutions, managing maintenance and repair contracts to development of a technician training program.

In addition, Klemola holds certifications in several mobile equipment systems, is a MSHA Qualified Surface Mine Electrician and a member of the Mining Associates of Wyoming.

"I am very excited to join Liebherr and am looking forward to meeting all of its great people," says Klemola. "I look forward to recruiting talented technicians to Liebherr and building a strong diverse service team that will support our customers, sales staff and equipment groups. This will be an exciting challenge to keep up with equipment sales."

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





# In-House Austrian Production Leads to Top Quality Product

Consistent quality control, better control of delivery times, and expansion of production capacity were the main reasons for Rockster Austria International's move from Ennsdorf to Neumarkt im Mühlkreis last year. The production of the R1000S impact crusher, equipped with a multitude of technical refinements, was the first hard test at the new location.

"The team, consisting of many new employees, showed tremendous commitment and willingness to integrate from the very start to collectively master this milestone in our company's history," says Rockster CEO Wolfgang Kormann. "And they have done it brilliantly!"

With a total weight of only 19.6t and a length of 29.5 ft (9m), the R700S is the most compact system in the Rockster portfolio, therefore the most cost-sensitive. The double-functional return and stockpile belt, first built for the R700S, has proven itself so well that it is now used on almost all other Rockster models. In the course of the new production, the control system



**Along with the well-established R1000S, the most compact impact crusher R700S is now being manufactured at the new location.**

has also been revised and the quick start function for the R700S crusher has been introduced. This enables the system to be engaged and running by pressing just two buttons on the remote control.

The new material feed monitoring system guarantees the best possible utilization of the crusher and contributes to an increase in performance of up to 25%.

The overload protection in the crushing chamber also ensures safety against blockages and thus reduces downtime. The new R700S is also equipped with the latest STAGE5 engine generation from Volvo Penta with 220PS.

Thanks to a successful channeling of workflow and constant modernization of work processes, bottlenecks in the



**Quick Start by pressing two buttons on the remote control.**

procurement of resources and in assembly have now been greatly reduced. "Our original idea of being able to control performance better, implement optimizations faster and more precisely has been very successful with the in-house production," says Kormann. "The new production employees integrated much faster than expected thanks to the great support of our long-standing colleagues. Overall, our customers are extremely satisfied with the new Neumarkt crushers."

[www.rockster.at](http://www.rockster.at)



Rockster Austria International GmbH.



# Where Demolition Professionals Build Relationships

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[demolitionassociation.com/membership](https://demolitionassociation.com/membership)



## New Leaders for Terex Finlay, Evoquip

Terex Materials Processing is pleased to announce the appointment of Matt Dickson as Business Line Director for Terex Finlay and General Manager of the Omagh, Northern Ireland, manufacturing site. In addition, Barry O'Hare has been named Business Line Director for EvoQuip.

Dickson returns to the Omagh facility where he worked for more than 10 years, reaching the post of Engineering Director. For the past four years, he has led Terex Materials Processing's EvoQuip business, taking it from its inception to becoming one of the world's top three brands for compact mobile crushing and screening equipment.

"Matt has a successful commercial and engineering background—experienced not only in sales and global distribution growth with entry into new markets but with a strong technical aptitude for our equipment," says Pat Brian, VP & Managing Director, Mobile Crushing and Screening.

Dickson succeeds Paul O'Donnell, who will transition to Director of Strategic Sourcing for Terex Materials Processing.

O'Hare has a wealth of experience in the crushing and screening industry, having worked in several positions for Powerscreen and Terex MPS over the past 12 years.

"Through his most recent role, Barry has guided the strategic and operational sales activities for EvoQuip and led the development and management of territory sales," Brian says. "We are confident he is well-placed to take EvoQuip into its next exciting phase of growth."

[terex.com/en/materials-processing](https://terex.com/en/materials-processing)



**Barry O'Hare.**



**Matt Dickson.**

## ASV Signs Dealers in Alaska and Texas, Adds Dealer Locations in Q3 2020

ASV Holdings Inc., expands product availability in Alaska and the Lower 48 states with several new dealers and dealer locations. ASV added Construction Machinery Industrial with four locations in Alaska, as well as Robinson, Texas-based Construction Edge Equipment. Existing dealers added new locations, including Carolina Construction Equipment with two in South Carolina and Briggs Equipment with one in Tampa, Fla.

The new dealers are a sign of ASV's fast-growing dealer presence in North America. The locations will offer ASV's full line of Posi-Track® compact track loaders, featuring best-in-class rated operating capacity, cooling systems and hydraulic efficiency. The line features the newly launched MAX-Series™ loaders, including the RT-65, VT-70 High Output, RT-75 and RT-75 Heavy-Duty. The new machines feature industry-leading comfort, visibility and overall operator experience. The lineup also includes the industry's most compact sit-in track loaders, the RT-40, RT-25, and RT-50,



and the industry's most powerful CTL, the RT-120 Forestry. The dealers will also offer ASV's full line of skid-steer loaders.

"This continued expansion across North America gives our customers increased



# MB Crushers Provide Easier Access to Difficult, High-Altitude Construction Sites

Accessing mountain roads in the middle of a forest is sometimes impractical, and without public trails, it's practically impossible. And even if often the sole way is to reach the peak is by foot, it can be weary but so rewarding!

So, imagine the challenges contractors often face to reach their high-altitude project locations with the proper equipment for the job, while maintaining low operating costs, and without impacting the forest's resources. They need to plan a project while adhering to their budget and environmental laws. Usually, these jobs are necessary and need to be completed quickly to avoid natural disasters like landslides, or to open resorts in time for the season.

Reaching the job site is the first expense and obstacle to consider, especially if the location is in an isolated area with limited or no access. Bigger machines require expensive, specialized transportation difficult to obtain for similar projects. By mounting an MB crusher bucket on a piece of equipment, the unit is transported with your machinery, avoiding expensive transportation methods.

The Nevada state forestry department resurfaced firebreak roads using the MB crusher bucket to process and recycle granite and river rock. By eliminating all material hauling costs, this process saves



the department millions of dollars a year in transportation costs, and reduces invasive species and other type of minerals that were trucked in the past to do this type of jobs.

A similar situation happened in Serbia, where a department responsible for constructing and maintaining all forest trails is using the BF90.3 crusher bucket on an excavator. This MB unit is crushing ba-

le salt that will be used as road base to either construct or to preserve existing roads.

A company in northern Italy had a similar project to create a scenic path that leads into a forest. With the BF90.3 mobile crusher, it processed natural stone and rocks and managed harder materials with ease. Everything was efficiently done on site.

Mountain trails aren't solely used for hiking. In the winter, snow transforms these locations into renowned ski resorts that have to be ready before the season officially starts, making a quick turnaround is necessary. In Austria, a BF120.4 crusher bucket followed the ski slopes' route, while crushing limestone and using it as base material.

Separating and selecting dirt is the next crucial point when constructing trails. Rather than haul material up and down the mountain, MB's screening buckets can access all construction sites and screen material on the spot. This happened on a job site in Canada's forests, where a path to a residential area was built using soil and rock screened with an MB-S10 screening bucket. Not only did the contractor eliminate all hauling fees, but also followed all environmental protocols by using material available at the location.

Mountain trails need to be frequently cleared of obstacles such as tree trunks, branches, and debris moved onto the walkway by storms and winds. In 2018, a massive storm in Italy razed a large portion

of forest in the Trentino Alto Adige and Veneto regions. MB Crusher MB-G demolition and sorting grapples were put into service to recover the fallen tree trunks and debris from roads and paths. The full rotation and a strong clasping strength, allows to pick up materials at different angles while also ensuring nothing falls out of the sides.

MB Crusher's units process material on any job site, making it available for immediate reuse or resale. All kind of materials are handled with ease and the units don't need to be sent to special centers to be serviced, the maintenance can be done on the job site without lengthy downtime.

[www.mbc crusher.com](http://www.mbc crusher.com)



**ASV Holdings Inc. expands product availability in Alaska and the Lower 48 with new dealers and dealer locations across the United States.**

access to ASV machines, service and parts," said Jeff Pate, director of sales for the ASV brand. "We chose these new partnerships

because of how they align with our values of quality, customer satisfaction and integrity."

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# Remote-Controlled Demolition Enables Surgical San

Like many cities with a long history, the skyline of San Diego, Calif., has changed significantly over the centuries. Even in the modern era, demolition and construction continue to transform California's second-largest city. However, with growing populations and congested urban environments, demolition contractors are forced to find safer ways to remove older buildings that minimize impacts on the day-to-day lives of citizens.

AMG Demolition & Environmental Services Inc. is one such contractor. The company has partnered with Brokk to complete a number of "impossible" projects in the San Diego area, including a challenging demolition in the heart of downtown. The job required the top-down demolition of a five-story building. Low floor loads limited AMG's equipment choices, but an even bigger challenge lay beneath the surface — a three-level underground parking structure that had to remain open throughout demolition.

"San Diego is an old city with a lot of old buildings that need to be removed to keep progress moving forward," says Mike Gafa, Jr., AMG senior estimator and owner. "These buildings come with certain challenges. They have low floor loads. Access can be limited — sometimes there's only a passenger elevator or single doorway to get to the site. And we're having to remove hazardous materials like asbestos and lead paint. The Brokk robots are simply the ideal tool for the job. Pound for pound, nothing can compare."

The company first turned to Brokk in 2016 to tackle a particularly robust top-down demolition of a 1940s-era Army depot that had become part of the at the Manchester Pacific Gateway waterfront development. A 6,945-lb (3,150kg) Brokk 280 to make short work of the 136-ft (41.5m) tall building, methodically demolishing 10-in (25.4-cm) thick concrete.

"As the depot came down, we were able to see how the Brokk machines might provide a competitive edge on



**AMG relies on thorough planning and creative problem solving to deliver on-time, cost-effective solutions. To that end, top-down demolition is the ideal solution for interior and top-down applications.**

a more congested jobsite," Gafa says. "We just needed the right project to prove our theory."

## Downtown Challenge

That project was taking shape in downtown San Diego, as general contractor CW Driver was awarded the contract to remove an existing five-story structure at 450 B Street, replacing it with a six-story multi-use office and retail tower.

The jobsite included a 30,000-ft<sup>2</sup> (2,787-m<sup>2</sup>) footprint that had three-story underground parking garage as well as a one-story portion up to 15 feet high at street level. Then there was another 12,000-ft<sup>2</sup> (1,115-m<sup>2</sup>) footprint that was tiered up to 45 ft (13.7 m) high. AMG's job was to take down both portions — all while the underground parking garage remained open to the public.

The bustling city block also housed a tower owned by the Bank of America only 60 ft (18.3m) away. Bank facilities, offices and other amenities would remain open during demolition and subsequent construction,

requiring crews to operate in off-peak hours and make other concessions to limit the disruption of daily life for the community. Additionally, no vibrations could pass to the Bank of America building during demolition, which meant saw cutting along the grid line at sidewalk level to separate the two structures.

These challenges were minor, though, and could easily be overcome by a number of demolition contractors in the San Diego area. However, the unique construction of the structure being demolished and the active parking garage below it required a more innovative solution — for which CW Driver turned to AMG.

First, the demolition specialist assessed the challenges presented by the concrete and glass building. The structure, a former bank, featured five 22x150-ft (6.7x45.7-m) "stair steps" climbing 15-42 ft (4.6-12.8 m) above the sidewalk. AMG needed to provide ample power to break through 24x36-in (70x91.4-cm) concrete grade beams and 8-in (20.3-cm) slabs without jeopardizing the struc-



# Demolition Doctors in Diego Demolition



They have begun incorporating Brokk machines on a number of

tural integrity of the building as they worked or damaging the ground-level slab.

Below ground, there were even more challenges to contend with. AMG needed to find a way to ensure the safety and continued operation of a three-story parking structure — even while demolishing and excavating a 40x60-ft (12.2x18.3-m) opening for a new elevator core and adding footings.

To complete everything within the eight-week timeframe, AMG needed to maximize crew utilization — taking down the building and excavating the elevator core simultaneously. The jobsite and equipment required the precision of a complex surgical operation to ensure safety and optimize productivity.

After thoroughly planning every step of the process, installing extensive shoring and gutting the building, AMG began top-down demolition with two Brokk 300s. The 8,047-lb (3,650-kg) machines, equipped with BHB 455 breakers, provided ample hitting power — on par with



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a 33,000-lb (14,970-kg) excavator — while remaining below the 10,000-lb (4,536-kg) maximum floor load. An experienced Brokk operator and a spotter were all it took to methodically maneuver the machines down through the building, allowing AMG to reallocate additional crew members to other tasks.

As the Brokk operators worked their way through the thick concrete, a separate team quickly sorted, crushed and removed debris below. Steel plating, cushioned by tires, was employed to protect the slab.

While the structure came down over their heads, an additional crew of 20 tackled excavation of the elevator core.

“On a given day, we had about 40 to 50 people on the jobsite,” Gafa says. “In order to keep everyone safe and the project on schedule, they all had to work in concert, like a team of surgeons. At the end of each shift, we would re-evaluate our progress and shuffle crews and equipment to maximize productivity the following day.”

## The Next Patient

Thanks to a coordinated effort and the use of Brokk machines, AMG completed demolition in just 56 days — frequently operating in off-peak hours to limit disruptions to the public. From the 30,000-ft<sup>2</sup> (2,787-m<sup>2</sup>) building alone, 7,600 tons of concrete were demolished, with all 7,600 tons being recycled. A further 1,000 tons of concrete were removed during excavation of the elevator core, along with 2,000 tons of dirt. In addition, AMG saved at least US\$50,000 in labor in equipment costs by



**AMG Demolition & Environmental Services Inc. partnered with Brokk to complete a number of “impossible” projects in the San Diego area, including a challenging demolition in the heart of downtown.**



**AMG began top-down demolition with two Brokk 300s.**

using robotic demolition rather than a more traditional approach with mini-excavators and hammers.

And before the dust had even settled, AMG's Brokk 300s were already hard at work on the next “impossible” job requiring demolition robots — a mall renovation with even stricter load restrictions. The company's two Brokk 110s were already on-site. Even with crews spread thin by the 450 B project, these 2,183-lb (990-kg) machines, ideal for interior demolition on floors where even skid steers were deemed too heavy, allowed AMG to begin work on the 18-month project. Gafa estimates the four Brokk units enable him to reduce necessary crew size for the project by about 15, giving AMG the capacity to take on more simultaneous projects without overextending itself.

These machines put AMG ahead of the curve, and we plan to stay there,” Gafa says.

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



Having something to look forward too has long been a strategy for coping with difficult times. And after a year like 2020, we all could use something sure to bring a bit of joy in the coming months.

# GET A LOAD (E

Here's a suggestion: plan a new equipment purchase to prepare your business for what we all hope are better business days to come. Compact loaders and skid steers are a perfect place to start. Highly mobile, built to last, and suitable for any type of worksite, these versatile machines are an invaluable part of every contractor's equipment inventory. What's more, there's a product for every need and every budget.

## Kubota compact loaders and skid steers

In fact, the first quarter of the new year will see a new addition to Kubota's compact track loader line—the SVL97-2, which features improved durability and reliability with an updated diesel exhaust fluid (DEF) system, in-cab technology, and enhanced operator comfort. The track loader will have an operating weight of 11,600 lb (5,261kg), and a rated operating capacity of 3,200 lb (1,451kg).

Kubota's skid steer loaders include the SSV65 and SSV75. With standard two-speed travel and optional high-flow hydraulics, Kubota's skid steers will meet the needs of construction, rental and agriculture customers. The rated operating capacity is 884kg and 1,220kg, respectively, for the SSV65 and SSV75. Both models feature a unique, slide-up, front-entry door that rises overhead, a side light for better visibility and safe night operation, and a spacious cabin with climate control. An optional multi-function lever is available, allowing for fingertip control of major machine and implement functions.

Kubota's skid steer loaders include the SSV65 and SSV75. With standard two-speed travel and optional high-flow hydraulics, Kubota's skid steers will meet the needs of construction, rental and agriculture customers. The rated operating capacity is 1,950 lb (884kg) and 2,690 lb (1,220kg), respectively, for the SSV65 and SSV75. Both models feature a unique, slide-up,



front-entry door that rises overhead, a side light for better visibility and safe night operation, and a spacious cabin with climate control. An optional multi-function lever is available, allowing for fingertip control of major machine and implement functions.

## Bobcat's MT100 mini track loader

Powered by a dependable, durable Tier 4 diesel engine and efficient hydraulic system, the new mini track loader delivers fast cycle times, strong breakout force and excellent pushing ability. The MT100 has a rated operating capacity of 1,000 lb (454kg) and comes standard with removable counterweights, which can be mounted in the undercarriage or at the rear of the machine on the uprights, to increase lifting performance.

At just 36 in (914mm) wide with standard narrow tracks, (41 in [1,041mm] with optional wide tracks), the new MT100 mini track loader offers an ideal combination of an easy-to-use machine in a less-intimidating size. The exclusive Bob-Tach® attachment mounting system makes it simple to put a wide assortment of Bobcat attachments on the machine. The Bob-Tach system uses an over-center latch mechanism and wear-compensating pins to make proper attachment-to-carrier fitment a given from the first exchange to the last.

MT100 also has a completely new, more durable undercarriage that requires no daily maintenance. Permanently sealed and constantly bathed in oil for permanent lubrication, the rollers and their idlers feature heat-treated surfaces to minimize the wear and tear of typical use and further extend the life of the track system.

Operators will experience enhanced comfort and confidence operating the MT100 mini track loader thanks to ergonomic ISO joystick controls and enhanced performance features, including optimized roller







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spacing on the track system which improves overall ride quality. Plus, an integrated ride-on platform gives operators a wider view to the sides, as well as to the bucket cutting edge or attachment.

## Also from Bobcat, new 60-frame size loader models

Bobcat's new R-Series T62 compact track loader and S62 skid-steer loader offer a redesigned 2.4-liter Tier 4 Bobcat engine with an inline design and durable direct-drive system that ensures high performance in a compact machine profile. Bobcat engines feature a robust combustion chamber that handles more pressure and produces more usable horsepower and torque than ever before, meaning better performance for pushing, digging, lifting and operating attachments.

The R-Series cooling system is completely redesigned for optimal operation and maximum uptime. Key improvements include a larger, higher-capacity radiator; fan size that has increased by approximately 50%, which achieves more cooling at a slower rotation; and a tailgate with heavy-duty steel louvers allowing for optimal airflow while still providing defense against jobsite debris.

R-Series loaders are equipped with new, stronger cast-steel lift arm sections, and powerful hydraulics to improve lifting capabilities. The R-Series lift arms are stronger in key areas, yet offer a slimmer profile to ensure optimal performance and increased visibility. The new roomier one-piece, sealed and pressurized cab design repels dust and dirt in the cab, isolates the operator from engine and hydraulic noise, and enhances the efficiency of heating and air conditioning. When it's time for maintenance or repairs, the entire R-Series cab lifts out of the way to provide improved service access – with hardware on the cab exterior for easy removal.

## ASV MAX-Series loaders with next-generation cab

ASV's MAX-Series loaders give operators a premium operator experience with a new, next-generation cab featuring the industry's best 360-degree visibility, a more spacious operator area, a fully adjustable seat, a new state of the art touch-screen display and more. Operators can work longer days in comfort with the MAX-Series' new fully suspended seat, featuring adjustable recline, slide, weight, and four-way arm rest settings. A new one-sided lap bar frees space around the operator's waist and also makes entry and exit easier. Along with extra shoulder and leg room, the cab also features a new level of operator experience thanks to available Bluetooth radio, improved speakers and speaker placement, and a new antenna placement for a better signal.

ASV built the new cab with a number of features to ensure long-term reliability. New wiring harnesses and fuse panels are fully sealed, watertight, and installed

with a design that further protects the electronics. Operators can also choose to include a factory-installed full rear brush guard, as well as a heavy-gauge, falling object protective structure (FOPS) level 2 cab, a feature previously only on the RT-120 Forestry model.

The Posi-Track loaders feature leading hydraulic and cooling efficiencies. Drive motors transfer torque to the patented internal-drive sprockets and internal rollers reduce friction loss in the undercarriage, allowing for maximum performance. In addition, all machines include large line sizes, hydraulic coolers and direct-drive pumps — rather than belt-driven pumps — transferring more flow and pressure directly to the attachment and preventing power loss. ASV's advanced cooling system helps contractors operate MAX-Series machines at 100% load, 100% of the time in ambient temperatures up to 118° F (48° C).





### John Deere grade control technology now available for 333G compact track loader

SmartGrade™, John Deere's proprietary grade control technology has been integrated into the 333G compact track loader. The feature expands users' capabilities site development, roadbuilding, landscaping, residential and commercial building operations by enabling them to take on new tasks and larger jobs that require accuracy.

The SmartGrade 333G increases productivity by helping to automatically complete grading tasks faster with fewer passes and less rework. Moreover, operators can reap the benefits of using a versatile, more transportable piece of equipment where the grade control system is fully integrated into the machine's structures and software, delivering precise grading performance while eliminating vulnerable masts and cables.

Operators will also benefit from the launch of DozerMode, a breakthrough control solution that enables the EH joystick control system to function like a crawler dozer — with the push of a button.

DozerMode is beneficial when operating the machine-equipped, John Deere-designed and -built, six-way dozer blade attachment that can both cut a grade and spread materials, streamlining attachment needs and setup time. The blade is fine-tuned to meet the performance needs of a compact track loader and does not require tools to change between other attachments. It also enhances the versatility of the machine by accurately and automatically cutting or finishing light materials in tight spaces. In conjunction with SmartGrade technology, the blade reduces the amount of operator input, ultimately lowering operator fatigue.

### John Deere also debuts rubber tracks

### for compact track loaders

John Deere's improved rubber tracks feature improvements to the construction and design, boosting performance and durability even when navigating challenging terrain and conditions. The new arched roller path helps to shed debris and improve roller path life. Additionally, updated steel cords reduce bending stress, while enhancements to the metal core adhesive process further improve durability.

In addition to the design updates, the rubber tracks warranty on new machines and service parts has been significantly improved. Starting December 2020, the new warranty, available for John Deere compact track loaders and compact excavators, will be applicable for 18 months or 1,500 hours, whichever comes first, and will be based on material defects and workmanship. With the improved parts warranty, John Deere reaffirms its commitment to providing durable and reliable equipment solutions for its customers.

### Mecalac offers AS900tele for optimized logistics

Mecalac's AS900tele combines the compactness and mobility of the company's revolutionary AS Swing Loader Series with telescopic technology to provide game-changing versatility on the jobsite. The 22.2 gpm (84 lpm) auxiliary hydraulics further increase flexibility, allowing use with a range of attachments, including



mowers, road sweepers and earth augers. Functioning as a loader, telehandler or landscaping tool, the AS900tele reduces the need for additional equipment and optimizes jobsite logistics.

Like all AS Series units, the 8-ton (7,250kg) AS900tele features Mecalac's innovative swing design. Operators can swivel the fully loaded bucket 90 degrees on either side, transforming space management and allowing for a radical new approach to tasks. With the rotated bucket, filling trenches or carrying pipes requires minimum operating space. On a road project, this rotation limits necessary space, requiring only a single lane closure rather than the two-lane closure needed for traditional loaders. For a congested urban jobsite, this flexibility allows for optimal equipment positioning in confined spaces.

Additionally, the unit's telescoping capabilities pair reach with power for unparalleled flexibility. With a lifting height of 15.5 ft (4.72m) and outreach of 11.5 ft (3.5m), the AS900tele allows operators to minimize





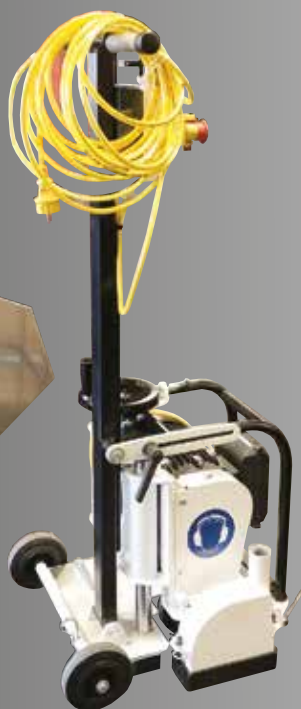


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repositioning while maximizing reach. The AS900tele has a carrying capacity of 5,004 lb (2,270 kg) at full extension, providing ample power for applications such as loading walking floor trailers or waste handling. Paired with a range of attachments — including pallet forks, buckets, brushes, snowplows and hedge trimmers — the telescoping allows the unit to replace traditional backhoe loaders, wheel loaders, and telehandlers.

The AS900tele features three steering options — 2-wheel, 4-wheel, and crab—allowing operators to simultaneously drive, pivot and maneuver, regardless of ground conditions. Combined with the swivel arm, it results in a 20% smaller turning radius compared to traditional wheel loaders and increases productivity and safety for a range of common tasks like loading a trailer and material handling as well as municipal jobs like mowing, snow handling and pruning trees. By avoiding unnecessary movements and maximizing the use of available space, the AS900tele can increase productivity with less noise, maintenance, and environmental impacts.

Even with the wide range of motion, the AS900tele offers increased stability over traditional articulated loaders and telehandlers. A well-balanced design and automatically locking rear axle allow operators to safely maneuver in all positions and on all terrains.

### Mecalac's updated MCR Series compact skid-excavators maximize efficiency

Comprised of three models, the 6MCR, 8MCR and 10MCR, Mecalac's line of compact skid excavators offers superior speed, productivity and compact operation over traditional mini-excavators. The machines provide the swiftness of a skid steer with the 360-degree rotation of an excavator for versatility and travel speeds two times faster than any small excavator. A compact footprint brings Mecalac's signature end-user-focused design to new applications and industries for increased safety, sustainability and efficiency.

The new MCR Series features a hydrostatic transmission and drive motors strong enough to take on any job. A dedicated pump drives the motor, allowing for twice the speed of any traditional mini excavator on the market. Each of the three machines is capable of



travel speeds up to 6.2 mph (10 kph). This significantly reduces time spent traveling across jobsites, resulting in faster cycle times and less unnecessary downtime.

On the jobsite, the MCRs' groundbreaking versatility increases productivity and reduces congestion. This is due in part to the company's patented quick coupler, CONNECT. The advanced system allows operators to quickly transition between attachments — such as pallet forks or digging buckets — without leaving the cab, decreasing downtime between tasks and increasing overall productivity. Additionally, once the pins are engaged, CONNECT guarantees zero risk of dropping a bucket.

Using a range of attachments, contractors can easily do the job of several machines with a single unit, freeing up resources and space without sacrificing efficiency. With a skid bucket attachment, contractors can move up to .98 yd<sup>3</sup> (.75 m<sup>3</sup>) of material at top speed or rest the bucket against the blade for applications such as grading and ground leveling. This innovative feature stabilizes the bucket, distributing the forces to the frame of the machine and reducing stress on the boom, prolonging component life.

### Mecalac's Speed-Control system for skid excavators

Mecalac's innovative speed control travel speed management system is standard on all the manufacturer's crawler skid excavator models. By setting a maximum travel speed from 20 available speed options, operators can focus on the task at hand for increased safety and productivity. Speed control increases versatility for the 6MCR, 8MCR, and 10MCR machines, making it easy to move across the jobsite at speeds up to 6.2 mph

(10kph) or maintain very low speeds for applications such as mowing or snow removal.

When combined with the flexibility from a range of attachments (e.g., mowers, mulchers, sweepers, snow blowers), Speed Control increases productivity and jobsite efficiency. Mecalac's patented quick coupler, CONNECT, another advanced feature standard on the MCR series, further increases speed and ease of use by allowing operator to switch between attachments without leaving the cab for greater efficiency in a variety of tasks.

MCR units also feature Mecalac's innovative three-part arm and a 360-degree rotating ability for an extended range of movement and game-changing compactness. Operators can do more from a single position or within confined spaces with increased flexibility and reach while minimizing unnecessary movement. The three-part arm can also be tucked in, allowing for extra compactness and mobility without overbalancing the unit in the front — resulting in a true zero-turn radius. In addition, the boom system gives the MCR unprecedented lifting capacities — pound for pound, exceeding anything else on the market.

### Caterpillar's 963 track loader pairs ultimate versatility with fuel and productivity

The new Cat 963 Track Loader combines versatility with up to 10% better fuel efficiency. Replacing Cat's 963K model, the 202 hp (151kW) 963 track loader has operating weight of 44,881 lbs (20 358kg), and is easy to operate from an updated cab with suspension seat and adjustable armrests/controls. An intuitive 10-in (254 mm)

touchscreen dash display features a standard HD rearview camera. Slope Indicate helps make operation easier by showing machine mainfall and cross-slope right on the display. The joystick option provides familiar controls for operators experienced with skid steers/compact track loaders. Or choose the more traditional V-lever/foot pedal controls. With either control scheme, operators can set implement response – fine, normal, coarse – to match operator preference or application. Smoother implement and steering response, and improved steering performance provide more controllability. The 963 is powered by a Cat C7.1 engine that produces 15% more peak torque than the previous model for more power to the ground under load. Up to 10% fuel consumption reduction is achieved with the Auto Mode that will adapt the engine speed to the load. Eco Mode will use even lower speed for further reduction in fuel consumption in lighter duty applications. Power Mode will keep engine speed high to feel readily available power at all times.

An optional Performance Series bucket boosts productivity up to 20%. An optional Fusion™ Quick Coupler enables fast attachment changes. A variety of buckets, forks and other tools can be shared among track loaders, wheel loaders and other Fusion compatible machines.

### New Cat Durilock shroud system for underground loader buckets

Caterpillar has developed the new Durilock™ Lip Shroud System for underground loader buckets. The fully integrated bucket system features hammerless installation and maintenance-free retention of ground engaging tools (GET) with Cat® Infitite™ elastomer compression retainers. Three interchangeable shroud styles enable a mining operation to quickly remove one type and replace with the type that is best suited to the loader application—without changing the base edge or retention system.

The Durilock system delivers 50% faster installation and removal of GET compared to legacy, mechanically attached systems, and, because there is no need to re-torque bolts periodically, maintenance time for GET is reduced by more than 50%. Additionally, integral corner guards extend bucket in-service time by about 30%.

The Durilock Shroud System is available for Cat R1700 to R3000 loaders, and most buckets of 6.5- to 13 yd<sup>3</sup> (5- to 10m<sup>3</sup>) capacity. The Cat Infitite retention design provides superior retention reliability without time spent performing re-torque procedures. The elastomer compression retainer installs in seconds to allow fast installation and removal. There is no complex hardware to fail, handle, or tighten.

The Durilock system offers three different shroud styles to enable matching the GET to the application and conditions in the mine. The D50S Standard is a traditional wedge shape used in most production and development applications. The D50A Abrasion has a contoured design and repositions more material on the shroud base, and the D50P Penetration has less leading-edge material to deliver easier penetration in dense material.

The lip assembly provides the mounting surfaces for the shrouds and corner protectors, which balance corner and center station wear rates. Cast corners are welded to the base edge assembly to create the lip assembly. The corners incorporate a stepped design that eliminates

corner shroud torsional loads and delivers superior reliability. The integral corner design boosts corner life by 15% and improves penetration as compared to systems that experience corner erosion and shortened bucket life due to corner rounding.

### New Holland launches new 300 Series skid steer and compact track loaders

The advanced technology in New Holland's new 300 Series includes the Super Boom® vertical lift linkage, a new 8-in (203mm) multifunction LCD display with reverse camera, straight-line tracking improvements, fully upgraded electrical harness and much more. The 300 Series will be offered in 11 new models in radial lift or Super Boom vertical lift. These models range from 60 to 90 hp (45 to 67kW), rated operating capacity from 1,600 to 4,500 lbs (726 to 2,041kg), and dump reach from 18.5 to 35.5 in (470 to 902mm). With greater dump height and reach, customers have more visibility and ease loading high-sided truck boxes or hoppers. The Super Boom vertical lift linkage offers outstanding visibility and height, and a see-through area on top of the cab gives a clear view to the bucket, even at full height. The simple operator interface brings new features like maintenance tracking, engine protection and ignition time-out to ensure maximum uptime. The multifunction display conveniently shows engine data, performance information, RPM, fuel level, battery voltage, oil and engine temperatures, and trip screen. Along with the easy-to-navigate features, the display offers simple electro-hydraulic control settings and is customizable to the operator's needs.

For regular service or maintenance, the 300 Series offers the easiest access to the engine. The cab can be tilted forward for access to components and easy cab cleanout, and the all-new wiring harness will minimize downtime from troublesome electrical issues. The low-profile durable track undercarriage improves durability and helps reduce noise. The long wheel-based skid steers and steel-embedded track compact track loaders offer the customer a smooth ride and excellent stability. The center of gravity and weight distribution is designed for optimal traction and control during lift and carry tasks. Models built with electro-hydraulic controls feature multiple speed and sensitivity settings, including the new creep mode and automatic straight-line tracking. Creep mode, a slow-speed option, gives the operator greater control for slow-speed operations such as trenching with speed thresholds of one to 100 increments. Automatic straight-line tracking improves productivity and precision when working with a trencher or cold planer.

### A new 300 series excavator from Takeuchi

The TB370 compact hydraulic excavator is the first in Takeuchi's 300 series compact excavator line. The 6-7t class machine is powered by a 56.8 hp (44kW) Kubota V2607-CR-TE5B turbocharged diesel engine that delivers 157 lbf (213Nm) of torque. The TB370 also features a load-sensing hydraulic system that provides over 31 gpm (117 lpm) of auxiliary hydraulic flow making it an extremely versatile, powerful, and efficient machine. As the first model in the 300 series line-up, the TB370 has a wide range of state-of-the-art features that include an 8-in (203mm) touch screen multi-function color monitor with integrated air conditioner and radio functions. The automotive styled interior is completely redesigned and spacious enabling the operator to remain comfortable throughout the work day. An intuitive jog dial and switch panel gives the operator complete control of machine functions and features. For greater versatility the TB370

will include first, second, and third auxiliary circuits that will allow the operator to run a wide range of attachments. The additional third circuit gives the operator the option of adding a hydraulic pin grabber coupler to simplify and improve attachment interchangeability.

### Kubota enters stand-on track loader market with SCL1000

Those who made it to Conexpo before pandemic lockdowns began were treated to the debut of Kubota's SCL1000, a new stand-on track loader with wide tracks, narrow body, and a rated operating capacity of 1,000 lb (454kg). The SCL1000 features a wide 9.8-in (249mm) track that comes standard on the overall narrow, 36-in (914mm) machine. The integrated track design is engineered for durability with the undercarriage welded to the mainframe of the body. The grease track tension design includes sealed oil bath rollers for less maintenance and greater durability. The wide track design, with a rating of 4.0 psi, is low impact and minimizes damage to grass and landscaping. Kubota's SCL1000 boasts a powerful 24.8 hp (18.5kW) turbo-charged Kubota diesel engine with quiet operation, high altitude performance, and no diesel particulate filter requirement. A hydraulic pump directly connected to the engine reduces maintenance. The loader arms reach high and far with a hinge pin height of 84.7 in (2.1m) and a reach of 25.9 in (658mm) at a 45-degree dump angle. The SCL1000 has a best-in-class travel speed of 5.1 mph (8.2kph). Kubota's SCL1000 is engineered with cushioned loader boom cylinders and an adjustable platform suspension system that increase operator comfort for maximum productivity. The loader comes standard with a keyless start with passcode protection, 12V charging port and a 4.3-in (109mm) LCD color dash monitor that provides easy-to-read consolidated machine monitoring.

### Kanga's remote-controlled loader works hard where no one wants to go

The remote-controlled TR825 multi-task mini skid steer provides an ergonomic, safer, more efficient working alternative, with advanced safety features such as unique ID codes, redundancy control and automatic emergency stop. Standing 40 in (1,016mm) high, the TR825 works in both manual and remote mode, providing operators the ability to eliminate traditional work methods of manual labor, especially in hazardous environments and confined access areas. Other features include an anti-corrosion chain that withstands harsh environments such as iron ore, salt, copper or red dust. The zinc coating will protect the chain from seizing or rusting. Four certified lifting points to allow the loader to be craned into confined spaces.

Twin hydraulic cooling fans allow the loader to work in confined spaces at high temperatures and maintains the hydraulic oil temperature for optimum loader performance. In the event of low oil level and excessive heat, an automatic engine protection shutdown prevents damage. Two removable panels allow additional engine bay ventilation when working in extreme heat situations.





# Benefits of Robotic Water Blasting for Surface Cleaning Applications



With robotic water blasting, the heavy lifting is left to the machines while crew members stand safely out of the way.

**Traditionally, sandblasting has been the method of choice for rust and paint removal, as well as concrete surface preparation applications. However, changing standards in safety and environmental protection are causing many to question whether it's still the best option. Compared with other methods, such as robotic water blasting, the answer is often no.**

*By Roger Simonsson, Managing Director,  
AquaJet Systems*

Over the last 30 years, advances in hydrodemolition technology have led to water-blasting equipment that produces better results, more safely and efficiently than sandblasting, and with less environmental impact. Here are some of the benefits:

## Increased Safety

Applications such as sandblasting require a lot of physical exertion, as operators must constantly resist back thrust. Personal protection equipment—respirators and protective clothing, for example—can also increase fatigue and strain during prolonged operations.

Fatigue and other safety factors might not be quite as much of a concern for smaller sandblasting applications, such as removing graffiti from a building. But for larger operations, such as rust or paint removal on a bridge or

from a tanker's hull, the toll on workers can be significant. Repeated over days, weeks or years, this type of prolonged physical exertion can lead to a number of injuries, which, in turn, decreases productivity and drives up costs for insurance and workers' compensation.

With robotic water blasting, or hydroblasting, the heavy lifting is left to the machines while crew members stand safely out of the way. These machines are available with a number of attachments that enable operation over large areas — vertical, horizontal, and overhead — allowing workers to remain safely on the ground. When additional reach is needed, robotic water blasting might include a basic scaffolding system for the machine or additional tower sections or attachments.

Additionally, robotic water blasting is ideal for confined space operations, requiring fewer workers and eliminating the risk of silica dust exposure. In some cases, the robot can even be operated from a location completely outside the confined space zone.

## Quality Results

In addition to safer operation, robotic water blasting offers a level of precision and productivity far above traditional sandblasting. This is thanks in part to the incredibly high pressure available from industry-leading water blasting equipment. These systems operate at up to 40,000 psi (2,758 bar) and can easily obtain International Concrete Repair Institute concrete surface profiles from 5 to 10, with results below CSP 5 achievable with certain equipment. Using robotic water blasting, contractors can see production rates at CSP 5 ranging from 500.5 to 1,799.7

ft<sup>2</sup> (46.5 to 167.2 m<sup>2</sup>) per hour, depending on equipment configurations.

## Environmental Advantages

While robotic water blasting byproducts still require containment, collection and cleaning, the process is much easier and more cost-effective because the primary by-product is water. During the process, a small portion of the water is lost due to evaporation and surface absorption in certain applications. The rest can be easily collected using gravity and a system of dams. Like the used sand, this wastewater will contain small bits of removed material that must be properly handled.

While sand can be reused many times, there is no effective way to remove particles. It has to be stored between jobs and disposed of when it is no longer usable. With an on-site water treatment system, debris can be easily removed from wastewater, allowing operators to reuse the water or safely release it.

## Time for a Change

Making the switch to robotic water blasting might seem daunting at first, but an operation employing the right system will find quick success. For best results, work with a reputable OEM for system tailored to fit specific needs. But hurry, before the last few grains of sand fall through the hourglass and you're left in the dust.

Roger Simonsson is the managing director of AquaJet. He has more than 30 years of industry and leadership experience.

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





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## Atlas Copco HiLight V5+ Light Towers Illuminate High-Altitude Peruvian Mine

JRC, a Peruvian company dedicated to the development and construction of mining projects and infrastructure works for mining, has recently purchased six HiLight V5+ light towers from Atlas Copco. These units have been proven to be the perfect solution for JRC's operations at the Iscaycruz mine in Peru, where the altitude conditions are extreme, ensuring a continuous and efficient operation. The Peruvian company, with more than 20 years of experience focusing on the integral service of all production processes in underground mines, has experienced sustained growth over the years. For JRC, the success of its operation in the Iscaycruz mine project is of vital importance as it will be the first step to win new projects in open-pit mines.

Iscaycruz, owned by Empresa Minera Los Quenuales S.A (Glencore Group), is a polymetallic deposit with four mines in production. Due to its altitude of 15,400-16,400 ft (4,700-5,000 m), Iscaycruz is in one of the most challenging areas of Peru.

"Survival in this area is very hard, both for people and equipment," says Julio Tello, JRC Equipment Manager. "We worked with light towers from another manufacturer for a while and they did not work out. The three-cylinder engines shut down after two hours working and the lamps broke easily."

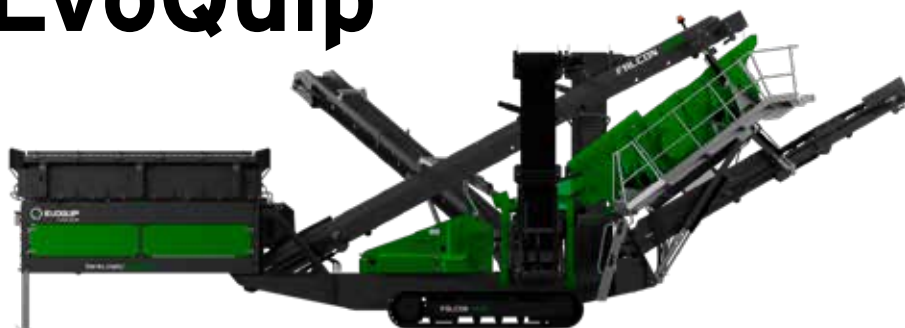
The tough working conditions and the lack of having the right light tower for this project led to heavy losses for JRC, due to the impossibility of starting the night shift. To solve this issue, the Peruvian company tested on site a HiLight V5+ light tower from Atlas Copco to ensure this unit was the right equipment for the project. After carrying out the test, JRC purchased six HiLight V5+ light towers to be used at Iscaycruz mine. Atlas Copco's HiLight V5+ light tower has been designed for the most demanding conditions. Featuring a HardHat® canopy as standard, which ensures maximum protection of internal parts. Its design includes directional optic lenses that maximise practical light coverage while minimising dark spots. A single light tower has four LED floodlights each projecting 350W of light and the HiLight H5+ can illuminate an area of up to 53,800 ft<sup>2</sup> (5,000 m<sup>2</sup>), providing an average brightness of 20 lux. The LED lamps offer users higher durability without any deterioration in lux level and have a life expectancy of more than 50,000 hours. Additionally, the HiLight H5+ light tower offers low fuel consumption, offering a run time between refuelling of 260 hours and consumes less than 0.13 gallons (0.5 litres) of fuel per hour.

"Atlas Copco's HiLight V5+ light tower is a solution that has been radical," says Julio Tello. "Until now, JRC's expertise has been mainly underground mining projects, however the operations at Iscaycruz show that we are the right fit for open-pit operations, that is why we are preparing seven mining projects in Peru and one in Mexico. The HiLight V5+ light towers are helping us to operate this type of project perfectly."

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



# The New Versatile Falcon Range From EvoQuip



EvoQuip® has launched the Falcon™ Range of finishing screens to its product portfolio. The Falcon 1220 and Falcon 1230 each provide a self-contained solution for material scalping, screening, and stockpiling.

The new finishing screens "enhance the EvoQuip product offering and results in us having a more comprehensive product portfolio that will improve our versatility and make us more competitive in the marketplace," says Benny O'Hare, Falcon product line director. "We are confident that these highly aggressive finishing screens will open up new opportunities for EvoQuip customers globally."

The Falcon Range with its exceptional screen angle range provides efficient classification of fines and is ideal for multiple applications and processing materials including sand and gravel, crushed stone, coal topsoil, and demolition waste. In keeping with the EvoQuip range, both the EvoQuip Falcon 1220 and Falcon 1230 are compact, easily transported machines and offer operators rapid set up and tear down times.

The Falcon 1220 features a 12x5 ft (3.65x1.5m) double-deck incline screen with remote tipping reject grid, hydraulic screen tensioning of bottom deck and three on board hydraulic folding conveyors as standard, with the option of adding the double deck vibrating grid.

The screenbox on the Falcon 1230 features three inclined decks—top and middle deck: 12x5 ft (3.66x1.52m); bottom deck 10x5 ft (3x1.52m) giving a large screening area of 170ft<sup>2</sup> (15.8m<sup>2</sup>) to provide efficient, high capacity screening - even at small fractions. The fourth product conveyor has variable tilt and side slew to accurately discharge material for recirculation and stockpiling. The screenbox features quick-wedge tensioning (top and middle deck), access holes and bottom deck hydraulic tensioning system to reduce time required for mesh changes.

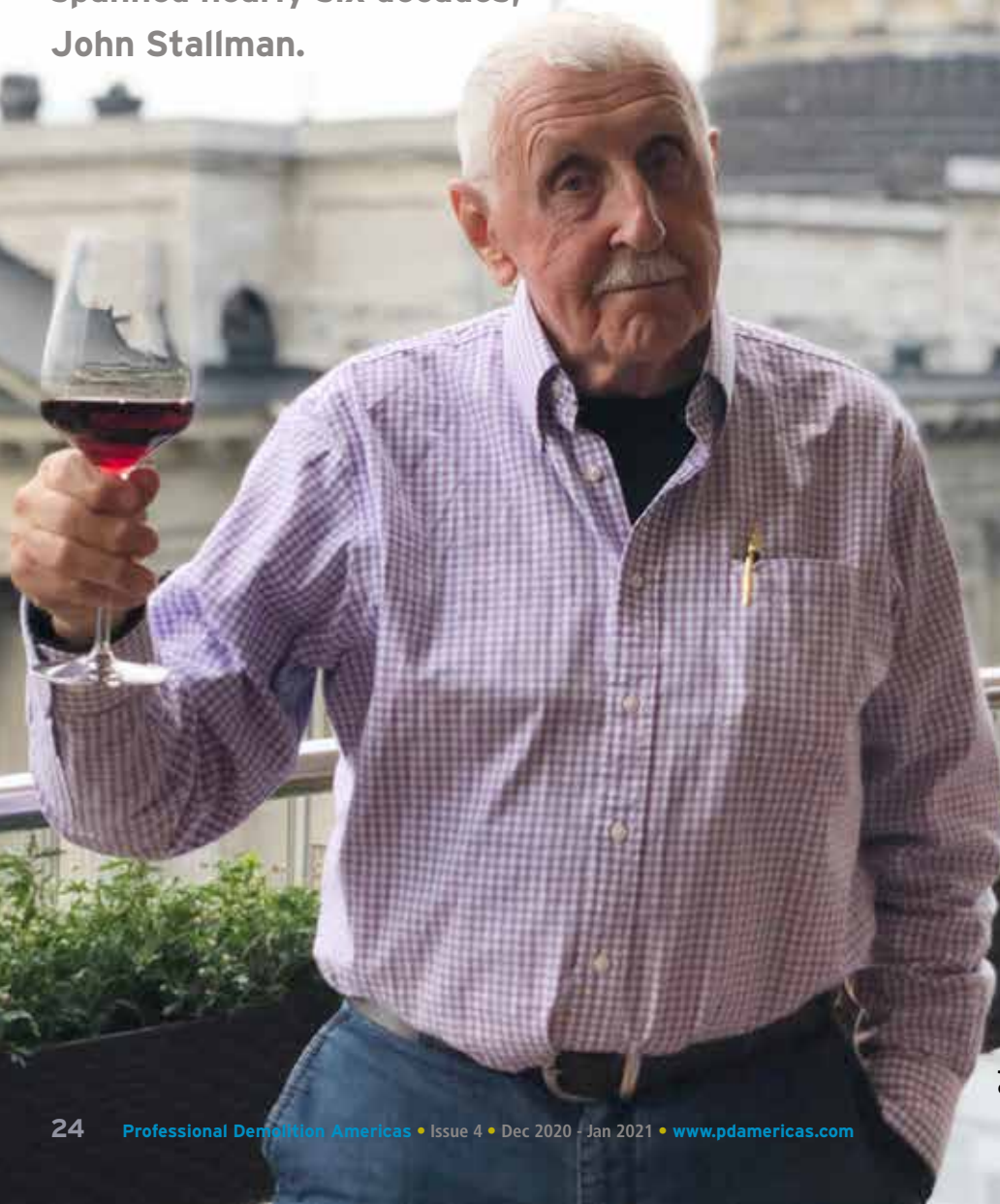
The Falcons come with T-Link telemetry system fitted as standard, providing the customer with real-time information on the performance of their machine, meaning effective machine management and maximizing uptime.

[www.terex.com/evoquip](http://www.terex.com/evoquip)



# The Groovy Story

Every industry has its legends: one of a kind, larger than life figures that define it and lay the path for others to follow. Concrete sawing and drilling has its fair share of giants, with one such individual being a trailblazer in runway grooving techniques whose career has spanned nearly six decades, John Stallman.



John Stallman, a legend in the concrete cutting industry.



# of John Stallman

Runway grooving is a very niche yet universally required technique. Employed to eliminate hydroplaning on runways, grooving is integral to the safe take-off and landing of an aircraft. For instance, a fighter jet loaded with armament sliding off the runway can cause a whole lot of trouble so airport operators tend to keep a beady weather focused eye on every experienced groover.

## Well engineered beginnings

John Stallman was born in Rochester, New York on February 1, 1936. Having finished at the local high school, he did a two-year stint in the army before entering Syracuse University, graduating in June 1960 with a Bachelor's degree in civil engineering. John worked as a design engineer in New York City for about a year, then relocated to Trinidad in the British West Indies to join a World Bank-sponsored sewer project. John's wife, Marcelina Edith Davies, was born in Trinidad, and it was her father who alerted him to the opportunity. John spent almost five years in Trinidad, working his way up from a field engineer to project manager. That led to new project leadership opportunities in Los Angeles and Okinawa.

In 1968, John moved Honolulu to run a prestressing manufacturing plant. It was there that he earned an MBA in International Finance from the University of Hawaii. From then on, Hawaii would become John's home base and residence.

## Business owner and consultant

In 1971, John was part of an investment group that bought 49% of Concrete Coring Company Hawaii. The remainder of the company was owned by the legendary Ed Dempsey – the very man who pioneered the use of



**Runway grooving on a US military base on the island of Diego Garcia, in the middle of the Indian Ocean.**

high-cycle 400Hz motors in concrete cutting. Following a series of twists and turns over the next two years, John gained full control of the investment group and the contracting company itself. Concrete Coring Co. Hawaii was set up as a union shop, using experienced operators from California before training its own staff. With his MBA and strong engineering background, John played consultant

to numerous others in the industry throughout his career, overseeing their progress to senior management positions.

## Getting into the groove

About the time John was getting into the concrete coring business, the Federal Aviation Administration began promoting runway grooving techniques as a means to

**A test strip on an asphalt roadway at Bangkok Airport.**





**John Stallman (left) and Samson Pei (right), the owner of Drillcut Ltd and a cult personality on the Hong Kong concrete sawing and drilling scene, sometime in the late 1990s.**

prevent hydroplaning. Hawaii's first project was executed at Hilo International Airport by a Texas-based contractor. After researching the business, John arranged to lease of a grooving machine with an experienced operator to train his personnel. Concrete Coring Co. Hawaii's first solo grooving task was in Lihue Kauai in 1974. From that moment on, runway grooving became his pet project to market, bid, and oversee. In 1975, John's company pursued its first international contractor in cooperation with Concrete Coring Co., Tokyo. Thanks to John's expertise and equipment, the Tokyo-based contractor was able to secure the country's first-ever grooving contract, in Yamagata. Along the addressing hydroplaning issues, the grooving project also involved upgrade the runway to accommodate jet aircraft, providing a safer surface for braking. Over the course of 20 years, Concrete Coring Co. Hawaii completed more than 30 grooving missions across Hawaii, as well as in Guam, Hong Kong, the Philippines, and Micronesia. In 1995, John sold his interest in the company to his employees. With John's name still on its headquarters façade the company has continued to enjoy strong growth.

### Operation 'Hong Kong'

When the Hong Kong government awarded a repaving and grooving contract for Kai Tak Airport's solo runway to the Anderson Asphalt Company in 1992, its chief engineer learned that Concrete Coring Co. Hawaii had done similar jobs in the Philippines, Japan, and Pacific islands. He flew over to Hawaii to evaluate the contractor's equipment and capabilities. By that time John had

already set up Concrete Coring Co. Hong Kong, obtained a residency permit, met all local contractors and completed his first grooving job in Macau for a specifier from mainland China. In Hong Kong he befriended Samson Pei, the owner of Drillcut Ltd and a cult personality on the local concrete sawing and drilling scene. At Samson's request, John became his wingman, running the business together until 2001. It was John who introduced Samson to the CSDA and American suppliers, techniques, and equipment. Concrete Coring Co. Hong Kong remained in business until 2014, finishing 14 runway grooving and repairing projects in various Pacific Rim countries, the US and India.

### Some groovy tales

After 40 years in the runway grooving business, John has a bagful of exciting tales to tell. In the 1980s, there were fewer than 50 companies worldwide that had the equipment and expertise to undertake runway grooving. And every project was truly unique.

For a job on the island of Pohnpei (aka Ponape) in 1981, John set up the entire operation in two 20-ft (6m) shipping containers. One was used to transport the machine, parts, tools, generators, lights, and hoses; the other was used for a vacuum tank with more hoses and accessories to capture the water and slurry to keep the runway clean for use. This mobile set up allowed John to go anywhere a freighter could drop off the containers. In between jobs, John stored his machinery on Guam.

Another unforgettable experience involved runway grooving on a US military base on the island of Diego



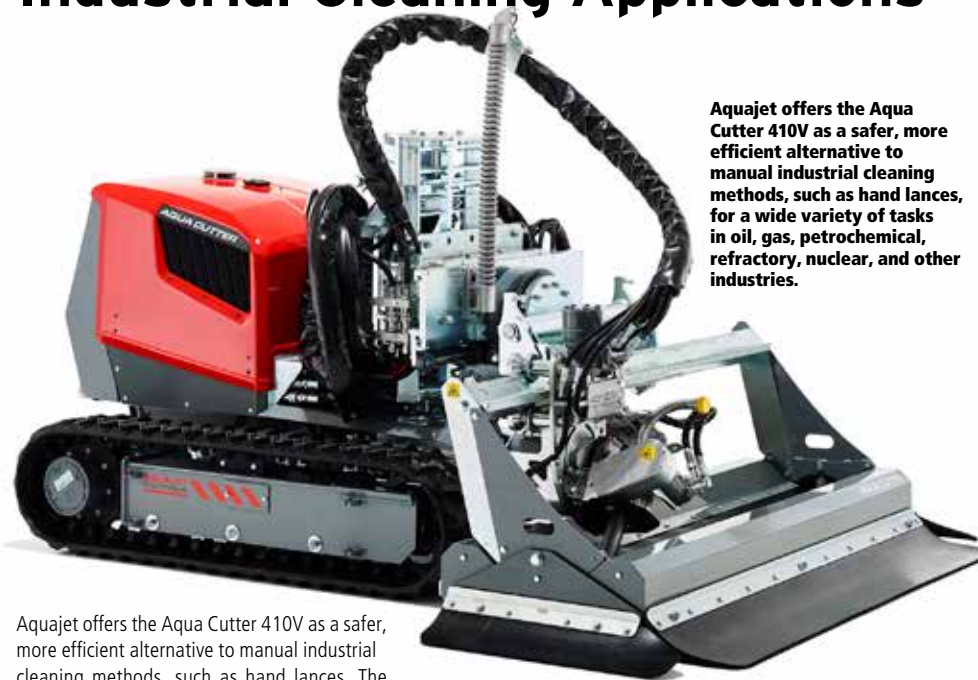
**John Stallman likes travelling, here in St Petersburg, Russia.**

Garcia, is in the middle of the Indian Ocean. A B1 bomber had hydroplaned off the runway into a grass field with a full armament load. As that base was a departure point for all the bombing missions in the Middle East, Congress got involved and demanded the concrete runway be grooved immediately. At the time, John was relaxing on a boat in Hawaii. Cutting his vacation short, he rounded up six operators, located and leased two machines, and set to work. The machines were delivered by Korean Air on a Boeing 747 to a Singapore military base, then transported by ship to Diego Garcia.

In 2010, John sold his machinery to Cardinal International together with a non-compete and consulting agreement to assist them in pursuing opportunities in the Asian market. He consulted Cardinal on projects in Micronesia and Papua New Guinea in 2012 and 2013, finally retiring from the industry to his home in Honolulu in 2018.



# Aquajet's 410V Hydrodemolition Robot Increases Efficiency in Industrial Cleaning Applications



Aquajet offers the Aqua Cutter 410V as a safer, more efficient alternative to manual industrial cleaning methods, such as hand lances, for a wide variety of tasks in oil, gas, petrochemical, refractory, nuclear, and other industries.

Aquajet offers the Aqua Cutter 410V as a safer, more efficient alternative to manual industrial cleaning methods, such as hand lances. The model combines the compact size of the Aqua Cutter 410A and the innovative mast system of the Aqua Cutter 710V, for unrivaled versatility to work in tight spaces, including boilers, tanks, pipes, and other industrial containers and conduits. With a free-standing reach of up to 13.2 ft (4m), the 410V gives operators the ability to work horizontally, vertically or overhead, while remote operation keeps them out of harm's way during hazardous cleaning applications. The 410V's design makes it suitable for a wide variety of industrial cleaning tasks in oil, gas, petrochemical, refractory, nuclear and other industries where it can increase efficiency up to 80%.

The 2,756-lb (1,250kg) Aqua Cutter 410V uses 15,000-40,000-psi (1,034-2,758 bar) water jets and a range of attachments for efficient concrete removal or surface preparation. Contractors can adjust the robot's stroke to control removal depth and vary the water pressure to match the application, increasing precision and efficiency over hand lances and other manual methods. This can significantly increase efficiency for applications such as tank and large-diameter pipe cleaning, reducing the time and personnel required while still producing high-quality results.

"Industrial cleaning applications require flexibility," said Roger Simonsson, Aquajet managing director. "But with the models in the Aqua Cutter 410 series and Aquajet's extensive range of attachments, contractors have the power and precision to tackle any application safely and still achieve unparalleled productivity. For example, we had a customer using a 410A that was able to reduce a routine pulp and paper scrubber cleaning from 30 hours to just five."

The 410V also allows operation from a safe distance using the unit's radio remote control, either wirelessly or with a hard wire. Contractors can remove the power control module from the tracked portion to reduce the crawler to one-third of its original size and create an even more compact robot. This provides the ability to drive the

crawler into tight and inhospitable environments, such as small tunnels and flooded pipes, while the module remains connected via a cord.

And, thanks to superior lance control and Aquajet's Equal Distance System (EDS), the 410V easily removes concrete and other materials in corners that would be difficult to access with hand tools. Its small size and light footprint allow operators to use the unit in confined areas — including passing through narrow passages, such as doorframes or operating from scaffolding — while retaining full mobility.

The 410V features electric power and is compatible with Aquajet's line of accessories, such as the Extension Kit LT and Rotolance 2500 LT, as well as spines and frames. Contractors can also choose the Aqua Cutter 410V Tunnel Kit, specifically designed for cleaning and surface preparation in applications in steel or concrete pipes and tunnels up to 10 ft (3m) in diameter. The kit uses a rotolance and features automatic detection and the ability to adjust the distance to the tunnel surface. This makes it very easy to operate in uneven tunnel shapes or oval tunnels.

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

# Genesis Adds GRX 295 to Razer X Multi-Jaw Demolition Tool Line

Genesis Attachments announces the new GRX 295, the second model in the award-winning Razer X Multi-Jaw Demolition Tool line.

Featuring jaw change-outs in two minutes or less with the excavator operator staying in the cab, the GRX 295 is available with shear, cracker or pulverizer jaws. Jaw openings range from 20 inches for the shear jaw to 38 inches for the cracker and pulverizer. Jaw depths are 20, 32 and 30 in (508, 813, and 762mm) for the shear, cracker, and pulverizer jaws, respectively.

The 295 Razer X is designed for 66,000-lb (29,937kg) minimum excavator weight, versus the 395 Razer X, which is designed for 90,000-lb (40,823) minimum excavator weight.

The GRX's short, flat-top head with bolt-on bracket shortens the center of gravity, making it easy to change mounting for different carriers. The heavy-duty pivot design is integral to the jaw set, providing a power curve to match each jaw's primary application and versatility for concrete and structural steel recycling, C & D processing, and general and bridge demolition.

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





# A Busy Weekend for T

The 100-mile (160-km) Princes Highway is a primary connector for Melbourne's western and eastern suburbs and is used daily by commuters, families, public, and freight vehicles. One of its key junctions is Duncan Road junction, with a 61-year-old bridge that handles approximately 11,000 vehicles each day.

To improve traffic flow and road safety, the State of Victoria authorized an upgrade of the Duncan Road junction that included demolition of the old bridge and the construction of a new four-lane structure. The project also included new entrance and exit ramps, and cycle and pedestrian paths to ensure safer crossings on Duncan Road.

To minimize traffic disruption, the old bridge had

to be demolished in just June weekend. The limited time was no issue for demolition contractor City Circle Demolition, which used an Indeco HP 5000 and two HP 7000 hammers to quickly and safely reduce the bridge to manageable rubble. The hammers also made quick work of the support pillars' safety barriers of the pillars, which were built using high MPA concrete with extra steel reinforcements to withstand the impact of a 70t truck traveling at 60 mph (100 kph).

By the following Monday, the old bridge was just a memory, proving once again that Indeco hammers are reliable partners wherever there is demolition work to be carried out.

[www.indeco-breakers.com](http://www.indeco-breakers.com)





# Three Indeco Hammers





## Atlas Copco QAC 1350 TwinPower Generator Brings Reliable Power to Large Back-up Systems

Atlas Copco has added a Stage V-compliant model to its popular QAC series of containerised generators. The versatile TwinPower™ concept enables operators to cut fuel consumption while enhancing performance and complying with environmental regulation. Powerful, quieter than other units of the same power size, and easy to transport, the generators suit a range of applications, including utilities, events, construction, quarrying, mining, and petroleum projects.

The unique TwinPower™ technology leverages two smaller engines housed inside a containerised unit instead of one large one to achieve high power density with low fuel consumption, reducing the Total Cost of Ownership (TCO). The new TwinPower™ delivers up to 1,350 kVA as a prime power. When used with a variable load, the QAC1350 consumes up to 40% less fuel than solutions with one large engine due to fewer mechanical losses. Now compliant with the European Stage V regulations, the generator provides an environmentally friendly way to power operations, with nitrogen oxide (NOx) emissions reduced up to 80%.

Measuring just 20 ft (6m), the compact design and lighter structure make the generators easy to transport. The units are ready for operation as soon as they are on site, with optional power locks for fast connection.

The QAC1350 is equipped with a centralised control and monitoring system featuring Qc4004 digital controllers, making the system easy to configure and use. The intuitive touchscreen enables the operator to quickly review critical data and switch between the fuel optimiser, redundancy, and split operation modes to prolong service intervals and minimise fuel consumption.

Depending on the application, the generator can run as a standalone unit or in parallel with the mains, providing operators with flexible access to power. Designed to provide the best possible uptime, the QAC1350 can be serviced in less than two hours, with a maintenance interval of 500 hours. The innovative TwinPower™ construction means that it is also possible to use 50% of the unit's total capacity during maintenance to avoid any downtime.

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



## New Dust Collection Bags from General Equipment Company Help Meet Dust Compliance

asbestos abatement or mold remediation applications. In addition to the dust collection bags, General Equip-

ment Company has introduced its DB Series of Dust Collection Bags, which attach to confined space ventilation blowers for extracting airborne dust created by drilling, sawing, sanding, chopping or other jobsite activities. The bags also help operators meet compliance with OSHA 29CFR 1926.1153 regarding exposure to respirable crystalline silica in construction work.

The DB Series is available in three sizes for use with 8-, 12-, and 16-in (203, 305, and 406 mm) nominal blowers. The non-woven polyester bag material provides 85-percent filtration efficiency for controlling silica dust and other non-combustible dusts or particulate-type materials. The bags meet Efficiency Particulate Filter class E10, as well as the European filtration standard EN1822:2009.

Each 9.8-ft (3m) bag has a cinch-type strap for easy attachment. The bags can be washed up to two times using procedures that comply with applicable health and safety regulations. They are designed for use in a wide variety of non-hazardous type locations, but are not intended for



ment Company offers an industry-leading line of confined space ventilation blowers, which are sold separately.

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

## Brokk 200 Offers Increased Safety, Versatility, and Productivity in Mining Operations

The Brokk 200 with the three-element SmartConcept™, the company's signature system for improved performance and uptime, provides industry-leading power and productivity with zero emissions, making it ideal for the deepest, most challenging mining applications. Compactness, combined with the power of a machine three times its size, revolutionizes efficiency and safety by reducing the need for large crews with handheld equipment.

"Demand for gold and other mined ore has pushed mining operations deeper than ever before," said Lars Lindgren, president of Brokk Inc. "As shaft depth increases, so does the risk to workers. Electric, remote-controlled demolition machines provide superior productivity as well as a safer alternative to handheld equipment by removing operators from the hottest, most physical tasks."

As part of Brokk's Next Generation of remote-controlled demolition machines, the Brokk 200 is ideal for all-electric mines. SmartPower™ senses when the power supply is poor or faulty then compensates before damage to components occurs, allowing mining operations to use the machine with generators or unreliable power sources. SmartDesign™ extends machine life and provides unprecedented ease of maintenance, even in extreme environments. This feature includes 70% fewer cables, hardened components, LED headlights and easily accessible grease points and hydraulic

hoses. An ergonomic remote control, the SmartRemote™, incorporates adjustable straps, intuitive controls and professional-grade radio technology with a 984-ft (300m) working range.

The Brokk 200 is capable of carrying heavy tools, such as breakers, rock drills, buckets, and shotcrete attachments. It's ideal for heavy duty, difficult-to-access projects and applications.

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





# SBM Sets New Standards With JAWMAX 200 - The Most Powerful Mobile Jaw Crusher in Its Class

Just in time for its 70th anniversary SBM launches a state-of-the-art JAWMAX® 200 mobile jaw crusher. SBM has optimized size and compactness and designed an extra-large crusher mounted on a perfect transport chassis, making it an excellent entry model for processing and recycling construction rubble.

The name JAWMAX® 200 sums up the potential of the new mobile plant, with a transport weight of 27t. A large feed opening of 39x24 in (1,000x600 mm) can also be used as a primary crusher for impact mills at small sites. Features include an automatic soft start, fully automated gap adjustment, overload protection, radio remote control, magnetic separator, and lowerable discharge conveyor. Power is supplied either by a 200 kVA Diesel three-phase power generating set or directly from the grid.

Complementing the JAWMAX 200 is the SBM Crush Control App, which provides an overview of the current machine data (e.g. maintenance values, location information, or fuel consumption) as well as analysis for reporting. The new SBM App Crush Control is available in iOS App Store and in Google Playstore.

The new products are part of a strategy re-orientation of SBM's mobile crushing and screening solutions business units. Products will be distributed exclusively via qualified sales and service networks in all leading markets of the world by the end of 2021. This re-orientation will bring SBM even closer to the customer and will ensure the sustainable and economic success of SBM's professional clients in the sectors quarrying and processing of natural stones, gravel, sand, ballast, construction and road construction, recycling of concrete, asphalt and construction waste, mining industry,



**The new JAWMAX® 200 is the strongest lightweight in the compact class of mobile jaw crushers.**



**Helmut Haider, Sales Manager Mineral Processing Technology at SBM presenting the new JAWMAX® 200.**

as well as recycling of industrial waste products.

"We have achieved the series standards of the plants necessary for this step due to the product launch of our new "entry models" REMAX & JAWMAX® 200. With our model ranges REMAX and JAMAX® we offer the optimum solution for all requirements of this sector," says Haider adding: "The next SBM innovations are already waiting in the starting blocks."

SBM Mineral Processing began with farsightedness and stamina of Franz Wageneder, the owner of a sand and gravel plant who began developing the swivel-beam-mill (SBM) in 1950. Wageneder. The outstanding material quality of the new SBM became the benchmark in the sector, and in the years to come the hard stone industry was positively overrun by SBM plants all over the world. SBM ultimately positioned itself as an international full-package supplier of tailor-made solutions.

Now based in Austria, SBM is a leading high-quality

supplier of mineral processing and concrete technology in the international market and is one of the few full-package supplier of mineral processing and concrete technology all over the world. The premium-quality machines and plants for the raw material and recycling industry as well as innovative concrete mixing plants for ready-mixed and prefabricated concrete prove themselves every day in all weather conditions, all over the world.

[www.sbm-mp.at](http://www.sbm-mp.at)



**SBM Managing Director DI Erwin Schneller presenting the new JAWMAX® 200.**



**SBM Managing Director DI Erwin Schneller.**

# A DRUM ROLL FOR

A relative newcomer on the demolition scene, rotary drum cutter is probably the most universal excavator attachment there is. Demolition, quarrying, tunneling, landscaping, underwater cutting, and pipeline construction – that's an incomplete list of tasks that rotary drum cutters are capable of handling. Jumping on the trend, many attachment suppliers have enhanced their arsenals with this spiky multitasker.

## Epiroc cutters receive new monitoring device and "Pro" bracket

The Epiroc Group entered the drum cutter market in 2017 by acquiring Erkat, one of the companies that pioneered the drum cutting technology back in the late 1990s. In March, Epiroc introduced HATCON, a remote monitoring device for hydraulic breakers and drum cutters that keeps track of the attachments' location and operating hours.

It is connected to the cloud-based "My Epiroc" platform, which gives notifications on maintenance, creates task lists and provides an overview of the entire fleet. HATCON is available as both factory-mounted and a retrofit kit for Epiroc and Erkat drum cutters.

Also new from Epiroc this year is the "Pro" bracket for transverse drum cutters. This fixed-bracket improves the protection level of the hoses when working in confined and limited visibility areas without compromising the quality and performance. The bracket ensures better hose guidance, which results in less mechanical strain and enhanced protection on sites with reduced visibility (tunnels, underwater). The rugged closed-box design prevents the demolished material from falling on to the engine cover.

The "Pro" bracket comes with an optional water spraying system for dust control during demolition, tunnel and canal construction. Depending on the application at hand, the customer now has the option to choose between a rotating or static support bracket.

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

## MB machines shine on infrastructure projects in Europe

Drum cutters from Italy-based MB Crusher has been recently used to great success on a few infrastructure projects in Europe. When the historic Augustusbrücke bridge over the Elbe river in Dresden came due for renovation, the contractor sought an attachment that that would not cause any damage to the 18<sup>th</sup> century structure and would fit the machine already onsite - a Liebherr 918 excavator.

MB Crusher specialists recommended an MB-R800 drum cutter, suitable for 10-22t excavators. The first and most challenging phase of the project was freeing up the expansion joints by applying the drum cutter to the bridge's diagonal cement lines. Next, the MB-R800 was used to remove some of the concrete that filled the bridge arches, grinding as far as 10 ft (3m) deep.

Another German project called for the demolition of an old bridge over the busy AVUS motorway in Berlin. The challenge was to allow the traffic to continue moving on the carriageways across the bridge. Following the first



phase executed by heavy-duty demolition machinery, the two drum cutters - a MB-R800 and a MB-R900 were called in to remove the layers of cement and tarmac.

Another case study, this time in Corsica, involved the construction of a 1,476-ft (450m) suspended footbridge 16 ft (5m) above sea level. Located on a narrow cliff between the sea and the land with very little room for maneuver, the construction site itself represented the biggest challenge. MB Crusher solved it by advising the customer to use a combination of a Bobcat E85 excavator with a MB-R500 drum cutter with a rotation kit.

In Witzeze, Germany, a contractor was tasked to remove concrete walls of a bridge and some underwater boulders to widen the riverbed. A MB-R700 unit passed the test with flying colors.

[www.mbc crusher.com](http://www.mbc crusher.com)

## Simex expands production facility and receives innovation award for the TFC 400 drum cutter

Last year was very successful year for Italy-based Simex. The manufacturer strengthened its sales network, developed new attachments and, most importantly, added a new 80,700-ft<sup>2</sup> (7,500m<sup>2</sup>) building to its flagship manufacturing facility near Bologna. A warehouse with high storage capacity, it allows the Italian company to improve delivery times and to respond to the market requirements in a more efficient manner.

At the Italian Samoter trade show in March, 2021, Simex will display the new TFC 400 and TFC 600 dou-



ble-drum cutters. Designed for 6-10t and 9-12t excavators respectively, the continuous rotation cutters ensure smooth and even milling. With a cutting force of 4,159 lbf (18.5kN), the TFC 400 is ideal for small-sized excavation tasks, profiling of concrete surfaces and landscaping. The more powerful TFC 600, boasting a cutting force of 5,508 lbf (24.5kN), is designed for more heavy-duty applications like milling off of deteriorated concrete structures in walls and tunnel roofs, profiling of cut-off walls, trenching and laying of aqueduct and sewer pipes. The TFC 400 has been recognized with the Samoter 2020 International Innovation Award in the Attachments category.

[www.simex.it](http://www.simex.it)

## Rockwheel focuses on optimal pick layout

Germany-based Rokla, one of the pioneers and trendsetters in the drum cutter industry, that markets its products under the Rockwheel brand, has focused on pick layout to achieve rapid precise and smooth cutting. The manufacturer explains that an optimal layout of picks on the drums results in less stalling of the cutter head, more continuous cutting and ultimately higher performance. For cutting exceptionally hard materials, a special demolition drum is recommended. It features a helical depth limiter to prevent over-cutting and reduce vibrations.

Another trademark feature of Rockwheel drum cutters is that they need only two hydraulic connections, with no drain line required. The special valve construction serves to protect the hydraulic motor. The attachments'



# R DRUM CUTTERS!



compact design reduces stress on the excavator boom and ensures operational stability.

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

## Kinshofer rebrands its drum cutter range

Kinshofer Group, a Germany-based heavy hitter in crane and excavator attachments, is currently in the process of rebranding its range of drum cutters, formerly known as the WS series. From now on, every cutter in the nine-model range will have the code name KDC with the number at the end denoting the maximum operating weight of carrier it fits. Driven by high-torque motors, the KDC cutters feature modular construction and robust spur gearing with a gear reduction to increase the cutting force. The attachments are suited for underwater operation of up to 82-ft (25m) deep thanks to the heavy-duty sealing system. The hydraulic motor can be adjusted to the excavator's hydraulic circuit capacity. Quick and easy exchange of wear parts reduces downtime. The optional 360-degree rotation function allows exact positioning in corners, on walls and other vertical surfaces for more accurate contouring. The optimized arrangement of picks ensures a high loosening performance and low wear. Three-drum versions are available: the excavating version for cutting soft to medium hard rock, the profiling version for shaping and levelling soft to medium hard rock, and the demolition version for cutting medium-hard to hard rocks and concrete.

Four pick variants allow users to achieve optimum



performance on different materials. The standard pick is recommended for soft to medium hard rocks such as argillite and asphalt, while heavy-duty pick is designed for medium-hard to very hard rocks. The wear-protected pick

works best for highly abrasive rocks like sandstone and furnace gravel, and the wood pick is ideal for stumping and landscaping applications.

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

# Swedish diving concrete cutter company works above and below the water surface

**Specialist concrete cutter company RPP Dive AB possesses a unique level of competence for concrete cutting projects below the water surface, which is combined with concrete cutting equipment from Pentruder and support from Pentruder's dealer SDC (Swedish Diamond Tool Consulting).**

Just over four years ago, Rickard Persson and Johannes Hjelm decided that it was time for them to combine forces and work together. Their friendship started during their teenage years when they went to a diving school in Oslo, Norway in 2010 and 2011. After working a few years in the diving business, working four to six intensive working weeks in a row in Norway and one to two free weeks at home doing concrete cutting on dry land, they decided it was time to return to Sweden for good to work in the concrete cutting industry. It was then they decided to start up the company RPP Dive. "For us, diving competence is the foundation of the company. Both me and Johannes have a background in concrete cutting services. Making us available both above and below the water surface, and especially with wire sawing under water, has made us specialists in our field. We want to be able to offer our customers complete solutions for the construction jobs we undertake," says Rickard Persson.

## A unique combination

RPP Dive is one of very few companies in Sweden, and probably in the whole world, that can offer both professional diving and concrete cutting at the same time. At present, four of its 12 employees are certified scuba divers. In a diving team there are always three people: a diver underwater, a dive attendant and a dive leader. "In addition to diving and concrete cutting, we also offer services in hard rock and gradually we also work making concrete foundations. Having these four legs to stand on has been both a success factor and also a security for us. All of our divers are trained and certified in scuba diving for craftsmen in Norway. Even though underwater work is our specialist competence, we of course undertake regular concrete cutting jobs on dry land as well," Rickard continues.

## Choice of Pentruder equipment was obvious

The lake Mälaren project at the Södertälje channel that leads out into the Baltic Sea became one of RPP's major projects during the company's start up. Unfortunately, this project received some criticism in the media, but none of this has been linked to the assignment RPP performed. A number of concrete foundations located out in the water that protect the bridge and leads ships into the fairway needed to be cut off. "It was for the Mälaren project that we bought our first Pentruder equipment. We needed a really flexible and light weight wire saw that still had a good capacity and then the choice was quite obvious. The 3P8 (from Pentruder) greatly facilitated this project and it had to work for several hours during the year that the project took to complete. In the final stages of the Mälaren project, we were also hired as subcontractors to help with all concrete cutting and drilling in connection with the large demolition project Slussen in the centre of Stockholm," says Rickard.



**Bridge renovation in Tollered, Sweden.**

RPP Dive is now a loyal Pentruder customer with the knowledge to utilise the machines' capacity and modularity to the maximum. At present, they have three complete wall saw packages with complementary wire saw units, two MDU drilling systems and an MD1 drilling machine. "There are many things that made us choose Pentruder. Some of the reasons are that it is made in Sweden and maintains a high quality with smart solutions in that it can be supplemented with different units. In addition to our machine packages, we have various extra solutions such as protractors, stitch drilling rigs and more. For us, the relationship and support from our suppliers is incredibly important, and Ante Larsson at SDC in Stockholm is a star that contributes to us preferring Pentruder," says Rickard.

## Advanced bridge renovation in the south west of Sweden

With Corona-19 making 2020 a difficult year, RPP Dive has fortunately performed well, with its 12 employees working on various projects. One such job during the autumn of 2020 was a major bridge renovation in Tollered, close to Gotheburg, where the middle joint of a bridge had to be cut to be able to bring the bridge together. The project went through the demolition contractor, Jansson Entreprenad and the construction company PEAB. For this job a Pentruder 8-20iQ, 27kW was used. The challenge on the project was to cut along a length of 150m to a 920mm depth at a 45o angle. The team on site consisted of Kristoffer Elfström and Jens Karlsson who took almost a month to complete the job. Due to oblique sawing on the bridge where both the traffic ran in parallel and the carriage work being in progress, there was a lot of vibration that caused some jams, especially when sawing the deepest cuts with the Ø2000 blade. Everything however was solved and the schedule was not affected. After the sawing, the project also included additional drilling for reinforcement for the new bridge parts, as the drill joint would eventually



**Pentruder Angle cutting attachment.**

be joined together for the new bridge to be built.

## The future plan for RPP

The future plan for the company is to continue to grow and expand. Although RPP is basically Stockholm based, the plan is to establish an operation for the western region of Sweden due to the great demand for the company's subcontractor services in and around Gothenburg. "Even

though we of course do regular concrete cutting assignments, we of course want to invest in our special competence, which we are relatively alone to do. Therefore, an investment by dividing us in two subsidiaries feels just right. I take care of eastern region and the Stockholm area while Johannes, who lives in Lidköping, focuses on the west region and the Gothenburg area. Then it's just guessing and hoping that the world returns to a normal state after this strange pandemic," concludes Rickard Persson. And who knows that this could just be the start, as maybe RPP Dive's special diving and concrete cutting services are needed throughout the world.

**Left: One of RPP's wire saws from Pentruder.**



[www.rppdyk.se](http://www.rppdyk.se) • [www.pentruder.se](http://www.pentruder.se)



# SDF Diamond Wire

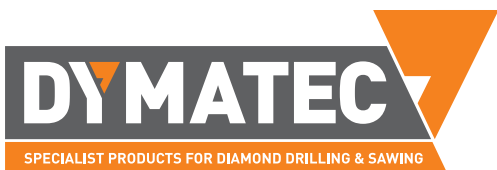
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