

# PROFESSIONAL DEMOLITION AMERICA'S **ppda**

Volume 3  
• Issue 2 • 2015

Your Gateway to North, Central and South America

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Meijer Diamond Tools BV  
Loubergweg 34  
NL-6961 EK Eerbeek  
The Netherlands  
Tel: +31 313 659555  
Fax: +31 313 656854  
Email: info@meijertools.nl

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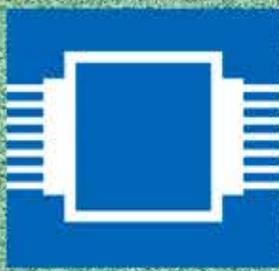
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**Postal address:**  
Riverbends Publishing, LLC, Pda Magazine,  
P.O. Box 552, Nokesville, VA 20182, USA

**Phone:** +1 703 392 0150

**E-mail Editorial Office:**  
editorial@pdamericas.com

**Web Site:**  
www.pdamericas.com

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### EDITORIAL STAFF

**Senior Editor:** Jim Parsons  
jim.parsons@pdamericas.com

**Editor-in-Chief:** Jan Hermansson  
jan.hermansson@pdamericas.com

**Assisting Editor-in-Chief:**  
Anita do Rocio Hermansson  
anita.hermansson@pdamericas.com

**Editor North America:** Jim Parsons  
jim.parsons@pdamericas.com

**Editor South America:** Luiz Carlos Beraldo  
luizcarlosberaldo@gmail.com

### CORRESPONDENTS

Andrei Bushmarin  
andrei.bushmarin@pdworld.com

Mikael Karlsson  
mikael.karlsson@pdworld.com

David Ehrenstråle  
david@flaskborsten.se

Kevin Mayhew  
kevinm@addixion.co.za

### SALES

**Sales Director North & South America**  
Darren Dunay  
Riverbends Publishing, LLC, Pda Magazine  
P.O. Box 119, Westwood, NJ 07675, USA  
Phone: +1 201 781 6133,  
Fax: +1 201 664 1829  
darren.dunay@pdamericas.com

**Sales South America**  
Eduardo Kubrick  
Phone: +55 11 999494544  
eduardo.kubrick@pdamericas.com

**Sales Europe and rest of the world**  
Phone: +46 8 585 700 46  
sales@pdamericas.com

**Publisher**  
Jan Hermansson

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# A World Party for Concrete Cutters

Last year in issue 3 of PDA, we featured the Concrete Cutting Nutters Association (CCNA), a Facebook-based group of concrete cutting professionals. Now in its second year, the group numbers nearly 3,400 members from around the world as of the end of June. And if you're not one of them, you should be.

Two things are evident from following a year's worth of Nutters' posts: they love their work, and they love to talk about it. Hardly a hour, let alone a day, goes by where there's not at least one new item with photos showing off a Nutter's latest project. But there are also posts seeking advice about how to approach a particular assignment, where new work may be found, and the occasional, but not unexpected rant about a piece of equipment that performed far below expectations.

And while the Nutters are pure professionals, they're not afraid to show that they're also people. That's why members can count on seeing photographs of the well-earned end-of-the-shift beer, family vacation activities, and other things that are...well, let's just say they fall in the category of "interesting."

What also distinguishes the Nutters is that they're not concentrated in a particular location. Posts come in from all over at all hours of the day and night, making the Nutters a concrete cutting professional's ideal coping strategy for insomnia or a slow day at work. The group is, in effect, a 24/7 combination break area/pub/backyard patio.

Sound like fun? It is. But more importantly, the Nutters are also using an easy-to-master technology tool to foster what every industry and profession needs to survive

and thrive—communication. They complement the networking and professional development functions of national groups like CSDA by providing an informal way for people in the industry to chat in real-time, rather than having to wait for the next meeting, class, or trade show. The Nutters' informal nature and structure also means participants can say pretty much what they want when they want, and let the discussion free-flow from there.

And because the Nutters group spans international boundaries and time zones, they expose other members to ideas and best practices that they otherwise may never hear about without booking a long and expensive tour of international job sites.

At the same time, the Nutters demonstrate every day that while languages and locations may differ, concrete cutting professionals are pretty much the same the world over. They're people who have tackle the same challenges, facing the same constraints or hassles, and strive to do the best job they can. And, of course, have a little fun along the way.

So if you've grown weary of seeing mainly friends' baby pictures, pet videos, and personality quizzes in your Facebook feed, or if you've held off joining that social media channel for whatever reason, give the Concrete Cutting Nutters Association a look. You'll laugh, you'll learn, and you may even be offended once in a while.

But one thing's for certain; you won't be bored.

**Jim Parsons, Senior Editor**  
jim.parsons@pdamericas.com



## Event Calendar

### Concrete Show 2015

August, 26-28, 2015  
Immigrantes Exhibition Center  
São Paulo, Brazil  
[www.concreteshow.com.br](http://www.concreteshow.com.br)

### Latin American Concrete Cutting & Demolition Forum 2015

Postponed to 2016, São Paulo, Brazil  
[www.latindemoforum.org](http://www.latindemoforum.org)

### Conexpo Latin America

21-24 October, 2015  
Centro de Eventos y Convenciones  
Espacio Riesco, Santiago, Chile  
[www.conexpolatinamerica.com](http://www.conexpolatinamerica.com)

### Edifica 2015

October, 21-24, 2015  
Esâacio Riesco, Santiago, Chile  
[www.feriadelaconstruccion.cl](http://www.feriadelaconstruccion.cl)

### Bauma 2016

April, 11-17, 2016  
Munich Exhibition Center,  
Munich, Germany  
[www.bauma.de](http://www.bauma.de)

### Construction Expo 2016

June, 8-10, 2016  
Immigrantes Exhibition Center  
São Paulo, Brazil  
[www.sobratema.com.br](http://www.sobratema.com.br)

## Genesis Attachments Names Lindsay as Eastern Canada Regional Manager

Genesis Attachments has named Jeremy Lindsay as its Eastern Canada Regional Manager. Jeremy was previously with Liebherr Group Canada, where he managed the national marketing and sales coordination for the earthmoving, material handling, mining, mobile, crawler, and maritime crane divisions. He brings to Genesis more than a decade of global sales and key account experience in the scrap and demolition industries. Jeremy will focus on Manitoba, Ontario, Quebec, and the Maritime Provinces.

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



## Dynaset 2015 Dealer Meeting

Dynaset's annual dealer meeting will bring its worldwide network to Finland. The dealer meeting is an excellent opportunity to gain better and deeper knowledge about the company and Dynaset hydraulic equipment.

This year's event includes a factory visit in Ylöjärvi, a large number of product and application demonstrations, sales and technical training, meetings with sales contacts and with Dynaset staff, and a whole lot more. A report of the meeting will be featured in this year's issue 3 of PDA.

[www.dynaset.fi](http://www.dynaset.fi)

## New Sandvik New Construction Website

Sandvik Construction has launched its new website, [www.construction.sandvik.com](http://www.construction.sandvik.com), to reflect the specific needs and requirements of customers throughout the world. The new website has been developed to serve as the primary communication portal for Sandvik customers, industry professionals, distributors, and the global construction media.

The new website contains features Sandvik customers have specifically asked for, and will be more easily adaptable to their changing needs. Specific dealer portals and access areas have been created to allow Sandvik distributors to gain information more easily. This will benefit customers through ensuring improved communication, as well as providing customer service and aftermarket care of the highest levels.

"Our customers want to know about our latest developments, find information about how our equipment may help them, read news and case stories from around the world, and learn how they can ensure their investment with us is maximized," says Sandvik global marketing communication manager Satu Rämö. "The website is not just a tool for us to communicate messages to our customers, but to develop a two-way relationship that will allow our customers, and dealers, to enhance their relationship with us."



## Terex Mineral Processing Systems Expands North, Latin America Sales & Support Organization

Terex® Minerals Processing Systems is pleased to announce the expansion of its organizational support in North America and Latin America due to strong market growth and rapid product development.

David Quail joins as the Terex MPS Mar-

ket Area Director, USA and Latin America. This is a newly created role to support the market expansion and product development in North America and Latin America. David brings a wealth of experience in the crushing and screening industry. He previously worked with Powerscreen (a Terex Company) prior to the 1999 Terex acquisition and more recently at Metso, where he was Director of Screening Media Solutions. He holds a Master's Degree in Manufacturing Systems and a Degree in Manufacturing Engineering.

Zachary Richard is a newly appointed Regional Sales Manager. He has spent the last five years, working for Aring Equipment. He began his career working as the Dopstadt specialist and finally as Territory Manager, providing technical knowledge and selling new and used heavy equipment.

Dave Schuchmann, who has been with Terex Minerals Processing Systems for a number of years takes on a new role as Sales Director North America and Latin America. Dave previously held the position of Director Applications MPS. The extensive technical background that he has will clearly be an advantage as he takes on his new role.

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

## New KPI-JCI and Astec Mobile Screens Sales Manager Hired for Mexico, Central America

KPI-JCI and Astec Mobile Screens has hired Said Vivas Saenz as its new regional contract sales manager for Mexico and Central America. In addition to being responsible for customer and dealer development, Vivas Saenz will work closely with the Astec Aggregate and Mining Group, which internationally markets KPI-JCI and Astec Mobile Screens, Breaker Technology, Telsmith, and Osborn products. Previously, Vivas Saenz worked for Sandvik Mining and Construction as a business line manager for Mexico and Central America for that company's mobile crushing and screening line. He has also worked as a crushing and screening sales engineer for SIFSA, a Metso distributor in Mexico.

"Said Vivas Saenz has a strong background in equipment sales in the Mexico and Central America regions, and we are thrilled to have him join our team," says Dave McCracken, Latin American sales director for KPI-JCI and Astec Mobile Screens. "We are confident that with his experience, we will continue to grow sales and strengthen our dealer network in Latin America."



## Aquajet Names New Chief Executive

The Swedish hydrodemolition equipment manufacturer Aquajet Systems has appointed Roger Simonsson as chief executive.

"We have many plans for the future and feel a need for more energy and new impetus," says Aquajet owner Stefan Hilmersson. "We have been looking for about a year. It has been a rigorous process and are now happy to have tied Roger to us."

Simonsson has been on Aquajet's board

for two years and knows the company. He has a long experience of working in international companies with an emphasis on distributor organizations.

"A strong distributor network is very important in order to reach out to our customers," says Simonsson. "Product development and production resources have been strengthened in recent years within the company, so now Aquajet is ready to take the next step. The strategy is growth."

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



Stefan Hilmersson, left with Aquajet chief executive Roger Simonsson.

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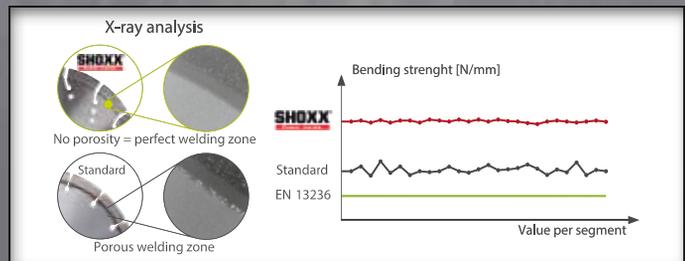
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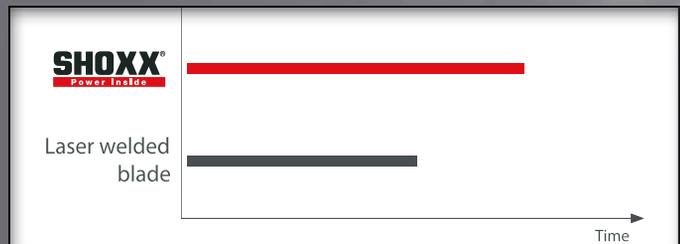


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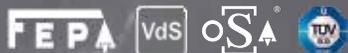
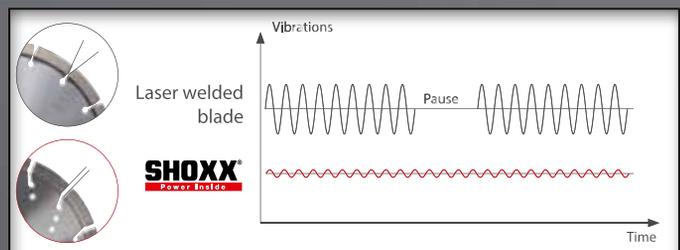
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**In Memoriam:  
Franklyn Jay Keeling**



Franklyn Jay "Frank" Keeling, founder of Magnum Saws, passed away on May 19 at Kansas City Hospice House. He was 71.

Born to Guy and Grace Keeling February 7, 1944, in St. Petersburg, Fla., Frank settled in upstate New York as a child. He graduated from high school in Gorham, N.Y. in 1962, and married his sweetheart, Judy Bigham, two years later. They were just able to celebrate their 51st anniversary together in their home with sons, Pat and Jeff.

In trying to find his way with school and initially in business, Frank attended several different universities and worked at several companies including Eastman Kodak Company and Brede Tool in Rochester, N.Y. He ultimately found his niche while developing a tools sales division at Iversen Lumber in Gorham, N.Y. As a Territorial Sales man at Wedge Company, he found his true life's passion selling diamond tools for construction. In 1977 he moved to Target Products, Inc., where he served in many sales

and management positions that led to his family's move to Kansas City, Kan.

In 1983, Frank co-founded Magnum Diamond and Machinery. He owned and built the company with his two sons until it was sold to Electrolux in 2000. Magnum was merged with Demus USA, where Frank served as President until 2002.

Feeling restless, and with a mind that never stops, Frank then started Precision Tractor with his sons. They continued with the company until 2008 at which time he retired. Frank continued to keep up his relationships with friends in the industry and attended trade shows as recently as this year.

Frank was a world traveler, visiting Europe, Australia, Asia, and Latin America. He was a student of history which was highlighted by a D-Day anniversary tour through Europe. Sports were another hobby and he regularly Kansas City Chiefs games as well. He was an avid outdoorsman and Formula One racing enthusiast, once attending the Italian Grand Prix. He was also able to attend numerous Indy 500 races.

With all this success, Frank had a lot of joy with his family. He particularly enjoyed spending time with all of seven of his grandchildren, sharing in their sports, hobbies, family vacations and holidays.

Frank was a loved and respected man in business and by his friends and family. He influenced many lives with his work in the construction industry and with relationships with his family and friends. He has left his legacy and will be greatly missed by all.

**Tyrolit Cutting Pro Competition Starts**

Europe's top professional concrete cutters and drillers will face each other once again in the Tyrolit Cutting Pro Competition. This is the only international (read Pan-European) wall sawing, core drilling, and hand sawing competition in the world. It turns the practice of cutting and drilling concrete into a sports discipline, with the spotlight on both power and skill. More than 700 competitors and fans from all over Europe came to Tyrolit for the last final in 2014.

The athletes compete against each other in pairs to carry out a range of tasks involving wall saws, core drills, and hand saws as quickly and precisely as possible. So far, more than 70 competitors have taken part in the three qualifying rounds conducted during April. The first, second, and third places were rewarded with a cash prize, while their companies each received a Tyrolit voucher. In addition, the winners of the first and second places of the respective countries qualified for the 2017 finals:

**Switzerland:**

- 1st. Defending champion Jan Läderach, from Läderach Betontrenntechnik.
- 2nd. Arlind Kernnaja, from the company Arlind Kernnaja
- 3rd. Stefan Wenger, Röhner.

**Austria:**

- 1st Jernej Ciglar, Dimas.
- 2nd Martin Sponring, Ortner.
- 3rd Daniel Wittke, The Cutting Crew

**Germany:**

- 1st Dominik Bernauer, BST.
- 2nd Patrick Bauer, Gebrüder Baßler.
- 3rd Peter Bierfeld, Bierfeld.

On 28 April competitors from the Czech Republic, Slovakia, Poland, Great Britain, Italy, Hungary, and Russia vied for participation in the 2017 finals. Winners of the international qualifying were:

- 1st Michal Ventluka from Czech Republic, Dinaz.
- 2nd Bohumil Drucbik from Czech Republic, Dinaz.
- 3rd Tomasz Cieclak from Poland, Base.

The qualifying sessions for Sweden, Norway, Denmark, Finland, the Benelux countries, and France will take place in fall 2016. The latest information about the event and the qualifying rounds can be found on Facebook page, [www.facebook.com/cuttingpro](http://www.facebook.com/cuttingpro).

Now is just the big question when a real international contest will be organized that include the other continents in the world?

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



**Jan Läderach, European champion, could also again defend his title of the Swiss Cutting Pro Champion.**



**German winners.**



**Austrian winners.**



**Winners of the international qualifying**



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# Aquajet Upgrades Aqua Cutter 710V II

Hydrodemolition equipment manufacturer Aquajet has upgraded its top-of-the-range Aqua Cutter 710V II. The launch coincided with the company's open days at its headquarters in Holsbybrunn, with participants from 17 countries, including Korea, Australia, the U.S., and Canada.

## Several improvements

After five years on the market, the Aqua Cutter 710V has undergone a major upgrade. An improved control system, incorporating new interactive display graphics, makes it easier for operators to handle. Together with softer and more precise movements of the machine the aim is to achieve a better end result.

The Evolution system now makes it possible to compensate for different quality of concrete, as well as different cutting depths. This can be done in several ways, such as using different modes to cut multiple depths, or by having different speed zones. A major improvement is a new 3D function, where different forms can be made also on the depth.

Aquajet claims the unit is now almost unlimited in setting any shape, such as cutting out a circle with a sloping bottom or cutting out an area in different levels.

A basic mode has been added to the system when only the basic functions are needed in hydrodemolition. For more advanced users and applications, numerous options are available for fine-tuning a machine's operations—many from the remote control—such as control of the pump and the robot, pressure, and revs/min.

The tower on the 710V II is 17.6 lbs (8kg) lighter and easier to raise, yet it is stronger with improved torsional stiffness. The mast movement has been extended to 11.8 in (300mm), together with a 6.5 ft (2m)

extended side shift provides a wider working reach. The 710 has also been given a new quick-connection in the front, making it easier and faster to change to circular power heads, rotolance, or other accessories.

For customers in need of a machine to handle even higher reaction forces, with larger pumps, the 710V XL version is available. Along with the new features of the 710V II, the 710V XL has a wider undercarriage of 48.4 in to 72 in (1,230mm to 1,830mm), compared with the standard 40.5 in to 64 in (1,030mm to 1,630mm).

## Gaining international acceptance

The concept of hydrodemolition is slowly gaining popularity and international acceptance, as an alternative to jackhammers, according to Aquajet representative in Australia Derek Bade, who views Australia as an emerging market for hydrodemolition.

"We also have a growing concern regarding water, particularly in remote areas with limited water supplies," says Bade. "The limited water consumption of the Aquajet units makes them interesting in those areas."

A similar concern is raised in Singapore by another Aquajet agent Christopher Parkhill where there is a limited supply of water, manpower and space. Parkhill adds that in Hong Kong the noise of jackhammers is not accepted, and work is limited during day and not allowed at all at night.

Aquajet machines are currently in use in an underground railway project in Singapore, as well as in underground road and rail tunnel projects in Hong Kong. A main task for these units is to roughen up the surface in preparation for spraying on fire retardant material on the tunnel walls.

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

## AUSA at the M&T EXPO in São Paulo, Brazil

M&T EXPO, the International Exhibition of Equipment for Construction and Mining, has completed its 20th anniversary in June 2015. Considered the largest business event for the sector in Latin America, and one of the sector's main exhibitions worldwide, the tri-annual trade show has its trajectory of success directly linked to the development of the equipment business in Brazil.

AUSA couldn't miss the opportunity of attending, so part of the sales force together with ten of the most important machines was displayed at the show.

Inside the dumpers range, AUSA showed the D1000APG, the biggest articulated chassis dumper of 22,000 lb (10,000kg) of payload with a last generation design and advanced technology. Models are available with a frontal and tilting unloading skip. It is assembled with a reliable Kubota V3800 Direct Injection Turbo engine that meets the Tier3 regulation.

The D150RM and the D175RMS mechanical dumpers have the characteristic of being affordable, tough and reliable. Their capacity is 3,307-3,858 lb (1,500-1,750kg) of payload, and are perfect for working in demanding terrains and small spaces.

AUSA also presented their forklift range and showed C250H and the C500H. Both machines are very compact and able to maneuver in tiny places but strong enough to carry 2,500-5,000kg. These machines can lift the load up to 11 ft (3.3m). Also three small Taurulifts was shown. The T144H is absolutely compact and can be towed with a trailer.

All dumpers, forklifts, and telehandlers are easy to manage thanks to its total control joystick, ensuring easy and safe driving.

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

## Allied-Gator Patented Shear Tip Technology

Allied-Gator has introduced the patented Stealth Tip, available exclusively for the patented MT mobile shear. The Stealth Tip has been designed to provide increased piercing performance while continuing to lower the operational and maintenance costs associated with mobile shearing.

The Stealth Tip is an assembly, which is specifically designed to engage and retain a pair of replaceable inserts. A single bolt secures the inserts, allowing them to be changed on site in less than two minutes. The inserts are extremely affordable and fully weld-maintainable, enabling them to be resurfaced and reused multiple times.

Unlike other designs, the Stealth Tip does not compromise the integrity of the shear knife because it is an independent weld-on component that can quickly be replaced should damage occur. This feature also allows users the versatility to use the previously standard solid weld-on shear tip,

which is still available for the MT mobile shear. The patented Allied-Gator Stealth Tip accommodates all new and existing MT shear models ranging in sizes from the MT 15 to the MT 160.

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



## Caterpillar Launches a Pin Grabber

The new Cat pin grabber hydraulic coupler features a two-stage locking system ensuring work-tool engagement, plus audio/visual verification of proper attachment for operators. The coupler's internal mechanism then combines with continual hydraulic force from the machine and actual digging forces to keep the work tool secure. It complies with applicable global safety standards, and is available in a narrow configuration that remains within the width of narrow trenching buckets.

The coupler is available for Cat excavator models 311 through 349 D, E, and F series, and is compatible with Cat work tools and most competitive buckets. Most F Series models have auxiliary hydraulic systems ready to operate the coupler.

The pin grabber coupler has a wedge-lock system for primary pin retention, as well as a positive secondary latch. The system maintains constant hydraulic pressure on the wedge. The coupler frame absorbs most of the forces involved to help ensure long-term durability. In compliance with safety regulations, the coupler maintains tool position in the event of hydraulic pressure loss.



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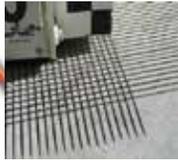
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# A Concrete-Cutt

**The world is shrinking and concrete cutting tasks are expanding. Being a concrete cutter was previously regarded as local employment. But now many concrete cutting operators and contractors often move around the world taking their knowledge and expertise with them. One of these is Andreas Kuelz who moved from Karlstad, Sweden to Germany and then Canada, He is currently with Graff, part of the Penhall Group, one of the world's largest concrete cutting and demolition groups.**

Since 2006 Kuelz has lived in Kitchener, Ontario, with his wife Mandy and three children: Kayla, Alexa, and Morgan. Kitchener is about 60 miles (100km) from Toronto and has a population of 230 000—about three times the size of Karlstad.

Kuelz has been working with concrete cutting for most of his adult life. "I got in contact with the industry quite early as my father was a Brokk operator at the Swedish demolition and concrete cutting company Rivteknik [meaning "demolition techniques"] in Karlstad," he says. "When I was free from school I used to join my father at different worksites.

At the time, Rivteknik was the biggest demolition company in Sweden, and has since given rise to many other contractors. Rivteknik employees originally used Brokk demolition robots to renovate the various road tunnels in New York during the late 1970s and early 1980s. Two Swedish demolition veterans, Roy Johansson and Roland Jarl, who ran their own U.S. demolition companies in New York for many years, also came from Rivteknik.

Kuelz has memories of working as concrete cutter in Sweden, and it was of high importance for his learning of the craft.

"I remember making a great job at a worksite called Commerce in Skovde the summer of 1992," he recalls. "I learned a lot on just this one job. We demolished, drilled and cut a lot. Another example of jobs with big importance was at a large paper mill plant in Borlange during the summer of 1993. These two jobs were important milestones in my early career this industry."

## Path to Canada

The path to family and living in Canada started in 1994. Kuelz, whose father originally came from the former East Germany, has spoken fluent German since he was a small boy. He recalls that the job situation in Sweden changed dramatically in the beginning of the 1990s. When he had completed his mandatory military service, Rivteknik had closed and his chances to get a full-time job as concrete cutter were poor.

Kuelz managed to get a government-supported job at a concrete cutting company called Arnessons Betongborrning for a while. One of the projects he worked on was in Germany, and his family moved there. They settled in Mannheim, and he started a small concrete cutting firm. In 2000 he met his wife-to-be.

"Mandy came from Stratford in Canada and she started to become homesick so we decided to take on a new challenge lives and move to Canada, which we did in 2006," said Kuelz.

Before they moved, Kuelz checked the area of Canada where he planned to live for concrete cutting firms. In only the second week in his new home country, he joined his father-in-law on a trip to Toronto. On the way home, they stopped at the concrete cutting firm Graff and left his resume. By the time he got home there was a message on his answering machine asking him to come back for an interview. The meeting was a success and Kuelz was now a Graff employee.

## Both similar and different

Kuelz enjoys working as a concrete cutter in Canada. He thinks that there are generally few big differences between being a Canadian concrete cutter and doing the same work in Sweden.

"One clear similarity is that it is freezing cold in both countries during the winter," he says. "One negative thing here and also in the U.S. is that you need to bring your own power to the worksite. That never happens in Sweden. When we work in large office buildings, for example, we need to bring a large transformer that an electrician needs to install before we can work. Most buildings have 600V and our machines use 480V. This you never see in Sweden."

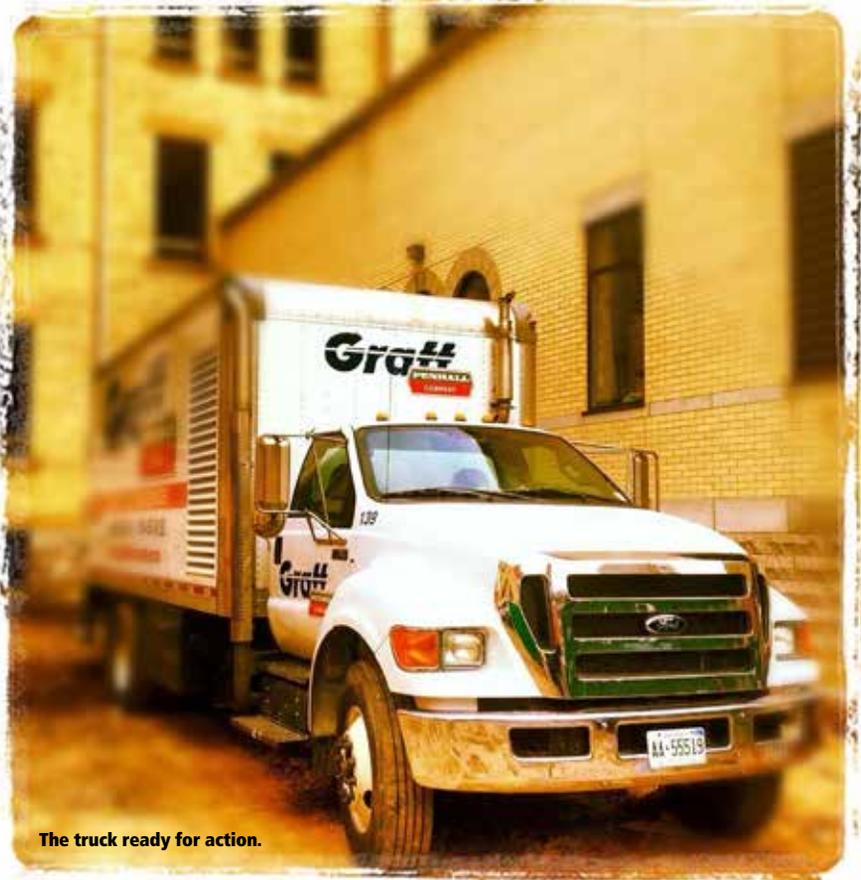
In addition, much of the machinery used in Canada runs on diesel, which is not so good for the environment. Kuelz also thinks that life is easier for Swedish concrete cutters because the equipment there is lighter and easier to work with. There is also plenty of equipment that aids daily work and makes it smoother.

For example, Swedish drill stands are lighter, and often have a gyro function, which makes drilling smoother and more precise.

"I think it is not always instinctive among supervisors in Canada and the U.S. to invest in equipment that makes the daily work easier and more efficient for operators," Kuelz says. "If we want to improve working conditions, the initiative must come from the operators who forward ideas to the supervisors. In Sweden, on the other hand, supervisors and owners of the companies are very keen to try new and better equipment and tools."

Kuelz said that there have been changes within the concrete cutting field in Canada since he moved there.

"When we moved to Canada, the difference between Canada and Sweden was bigger. At that time the equipment was quite old and not so user-friendly," he says. "The wall saws we used during that time were mostly Longyear 360 or Hydrostress. High cycle equipment was unthinkable at that time. Everything was hydraulic."



**The truck ready for action.**

# ing Globetrotter

In 2009, Graff/Penhall purchased a high cycle wall saw from Diamond Tech in California.

"At that time, the high cycle equipment had some teething problems. The drilling equipment we used came mainly from Milwaukee or Black & Decker fitted on rather big and clumsy stands, and the motor was normally in one piece with the feeder. Today, we are mostly using Hilti drilling and sawing equipment. I got my dear Hilti TS-20 in 2012, and since then we have bought six more."

Kuelz said that safety is the top priority on Canadian worksites. The workers' safety is valued very highly, just as it is in Sweden.

"Penhall has an admirable policy when it comes to their workers' safety," he says. "They always back up their staff if something goes wrong on the worksite. If it is safer to rent a \$400 lift, there is never any discussion. Safety comes first. Hardhat, safety gloves, a visor, and safety shoes are obvious on the sites."

When operating a flat saw, it is mandatory to wear high voltage gloves and isolated rubber boots. The saw's handles are always made of none energized material.

One thing that is different between concrete cutting in Canada and Sweden is the level of efficiency.

"Canada is more efficient on the job, which I believe has to do with the hardness of the concrete," Kuelz says. "Here, the concrete is much softer. I can wall saw about 325 feet (100m) with a depth of about 9 inches (230mm) in a day. Lately, with newer equipment, I can do even more than that. Downtime, when the equipment is idled due to failure, has decreased a lot thanks to improvements in the machines."

Cutting methods sometimes vary between Canada and Sweden. When you cannot make overcuts, a Swedish concrete cutter will drill in each corner. In Canada and the U.S., chainsaws or ring saws are used only when finishing up a corner.

While hydraulic equipment is most widely used in Canada, high cycle equipment is on a strong increase.

"These days we just maintain our hydraulic machines," Kuelz says. "When they are done, high cycle equipment replaces them; no new hydraulic equipment is bought. I think most of our bosses are convinced that high cycle is the future."

The use of high cycle equipment has resulted in more European equipment like Hilti and Tyrolit. Graff mostly uses Hilti drill systems and wall saws, and recently bought two Hilti wire saws. For electric flat saws, U.S. Diamond Products tools are used, while the diesel-driven flats saws are mostly Husqvarna. The diamond tools come solely from Diamond Products, Hilti, and Husqvarna. Kuelz believes that Diamond Products is the strongest supplier of diamond tools in Canada.

Kuelz says if a problem arises, he can call Hilti and can get a spare machine in about an hour.



**Andreas Kuelz at Graff/Penhall with a Hilti in the background.**

"High cycle equipment can also be used on most jobs where before we used hydraulic machines or where hydraulic equipment is too heavy to operate," he adds. "In all our trucks, we have a Longyear 360 or a hydraulic wall saw system from Tyrolit. Sometimes, though, the hydraulic hoses are not long enough, so we use our high cycle equipment."

Kuelz thinks it is just a question of time before high cycle is the only equipment that is used.

"We have proved so many times that the production rate doesn't decrease with high cycle, which once was the major criticism against that equipment," he says. "That's no longer the case. Today I often see small firms also using high cycle."

Graff is currently discussing the possible purchase of a Husqvarna Prime system containing high cycle ring cutter and chainsaw. He thinks this system is a perfect option, and is making





A Hilti in action.



the case to his superiors that the Prime system will save time in the production and space in the trucks.

### Canadian requirements

Among Canadian concrete cutting firms—and within Penhall in particular, there are requirements for how much a concrete cutter should perform per hour or per day. This will depend on the job and material. But on average a concrete cutter should wall saw about 6 feet (2m) per hour. But safety is paramount. If there is a risk for the operator production is secondary.

What is very important within Penhall is that the concrete cutters have a positive attitude towards the clients or other contractors, and that the operators are independent and solve problems on their own, but also practice safe working methods.

Kuelz receives new jobs through email and works mainly in the southwest region of Ontario, which includes the regions Kitchener, Windsor, and Niagara.

"It is a rather big area to cover and it is often I drive about 250 miles (400km) in one day," he says. "My truck is fitted with everything I need for my work—wall saw, flat saw, three drill systems, power cutter, water tank, core bits up to 13.7 inches (350mm), and blades up to 47 inches (1200mm), plus some other extra equipment," said Kuelz.

### A perfect ambassador for concrete cutting

Kuelz prefers to spend as much time as possible with his family. During the week there is little free time as he works long hours, and Mandy works some evenings. But during the weekends the family like to spend time together.

"January is normally a bit quiet so we used to go south during this time," he says. "Unfortunately I have not been back to Sweden since 2006, but I am planning to go back sometime this year. Canada is now home. My wife and I have good jobs that we enjoy, and we have a nice house, so we have no plans to move to Europe."

Kuelz hopes that Graff will have use for his services in the future and can continue to develop his skills and share his knowledge and train new and younger employees.

"I like this type of challenge," he says. "It is something I can see myself doing at some point in the future."

By the time this article was completed Kuelz had taken on a new job with Graff/Penhall as Account Manager. His work now includes both selling and working as supervisor. Kuelz is the first Account Manager hired in about a decade with a background from working in the field. He is very excited about his new position and PDA would like to take the opportunity to congratulate him to the new job. "Good luck Andreas!"



Members of the Kuelz family: In the middle Mandy; from the left Morgan, Alexa, and Kayla.

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# Indeco's Focus on GUIDEBOOKS

At Intermat, Indeco presented the first issue of the Focus On series of guidebooks, designed to provide the industry with indications on how to use its construction, mining, demolition, and recycling applications.

"The idea to share the knowledge and experience we have built up over 40 years of business in tunnelling first gained ground in early 2013," says Indeco marketing manager Michele Vitulano. "We've realized that the experience we've gained in that time working here in Italy alongside a variety of excavation firms could be a great value for demolition operators around the world. This is because we have had to develop flexible solutions with our hydraulic breakers for contractors who have to deal with Italy's geology."

The first issue is dedicated to tunnelling. Written in conjunction with Bari Polytechnic, the guide shows how

hydraulic breakers can be used when excavating tunnels.

"Using the analytic hierarchy process, we worked with the research team to identify a system that would consider several different factors when coming up with selection criteria," says Professor Alessandro Reina, who wrote one section of the guide.

"Whereas the tunnel-boring machine is currently regarded as the most efficient and best-known excavation method, there are some situations where using a TBM would be either impossible or inadvisable, due to its lack of flexibility," adds Indeco engineer Alessandro Ciccolella. "By contrast, the hydraulic breaker is a versatile, economical and efficient method that has proven to be an ideal complement for excavating tunnels."

Focus On: Tunnels is available free of charge in English, French and Italian at [www.indeco.it](http://www.indeco.it)



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## Case Launches Wheel Loaders at European show

At the Intermat show, Case Construction Equipment launched the new range of F Series wheel loaders that feature Hi-eSCR in-house technology, rear-mounted engine, Proshift 5-speed transmission and the heavy-duty cooling cube.

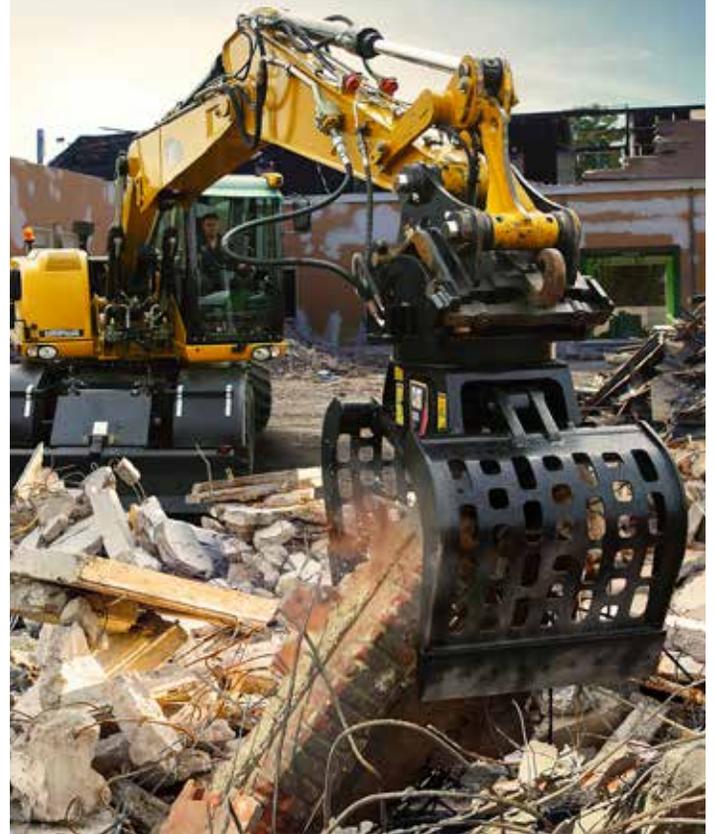
The F Series complies with EU Stage IV /Tier 4 Final with the Hi-eSCR technology developed by FPT Industrial, Case's sister company. It uses SCR introduced by FPT on trucks in 2004, and on Case wheel loaders in 2011. The system does not require a particulate filter or EGR valve. This design uses built-for-life components is maintenance-free and fuel-efficient. Five radiators mounted to form a cube, instead of overlapping, ensures a constant flow of fresh, clean air from the sides and the top. This cube structure also provides easy access for effective cleaning.

Models up to 20 tons feature the Proshift 5-speed transmission. The lock-up results in fuel savings of up to .5 gallons (2 litres) per hour and faster cycles compared

with conventional transmissions. The productivity of these models is further improved by the rear-mounted engine, which results in a better weight distribution, increasing the bucket payload by up to 15 percent compared to other loaders of the same weight.

The new F Series includes a lighting package with six LED lights providing a far-reaching spread of light of over 21,000 lumen of lighting power.

Case teamed up with seat manufacturer Grammer for the F Series' new leather seat. A low-frequency absorber provides a smooth ride at all speeds. The fore and aft isolator ensures a comfortable ride on rough terrain, and the active seat suspension with electronic automatic weight adjustment and dynamic dampening system delivers ultimate comfort. The adjustable armrests, extra-wide cushion, high and adjustable backrest, adjustable headrest, and 3 in (80mm) height adjustment enables operators to personalize the seat set-up.



## Caterpillar Launches New Demolition and Sorting Grapples

Caterpillar Work Tools has added three new demolition and sorting grapples—the G310 GC, G313 GC, and G315 GC—to the current G300 Series. The grapples are designed for use on hydraulic excavators weighing 10 tons to 19 tons.

"Our new demolition and sorting grapples are built to handle materials and fit our customers' budgets," says Caterpillar Work Tools marketing communications manager

Bert Heijligers. "They are designed to reach a broader family of customers and to compete in a fast-growing market. All GC grapples are backed by Caterpillar's commitment to quality."

The G300 GC grapples are available with a fixed upper head or with a top plate for mounting an adapter bracket, allowing them to be exchanged among multiple carriers. When used with the dedicated Cat CW quick coupler, the grapples can be exchanged in seconds for other Cat work tools. Cat excavators have pre-programmed hydraulic settings to accommodate G300 Series grapples. The new grapples have a low height and a shell and hinge design. Hydraulic components are protected, and the one-piece push bar provides powerful closing forces for the grab shells. The G300 GC series also feature hydraulic, 360° rotation, enabling the grapples to approach material from virtually any angle, minimizing the need to move the carrier. The square design allows maximum accessibility to material. Maintenance panels on the G300 GC grapples provide easy access to main components, while weekly service intervals and lubrication points help keep downtime to a minimum. Replaceable, abrasion-resistant cutting edges are standard.



## Darda Introduces New Concrete Crusher

Darda has introduced the CC430 concrete crusher as an upgrade of the former CC420 model for use on the Brokk 160 demolition robot, or 2.5-4.8 ton mini-excavators.

The CC430 weighs 529 lb (240kg), a crushing force of up to 85,877 lbf (382kN), and an opening width of 17 in (431mm). Equipped with additional teeth, a crushing force of up to 151,746 lbf (675kN) is possible.

Compared with the former model, the CC430 has several advantages, including approximately 25-percent higher productivity rate through new designed cutting tips and

optimized hydraulics, more stable cover plates and improved protection of hydraulic hoses, bigger opening width of the cutters for reinforced concrete, and higher service life of wear bushings.

The benefits are evident with demanding demolitions and will become even simpler and more effective if the CC430 Concrete Crusher is used together with an electro-hydraulic demolition robot Brokk 160. For several years Darda has been a partner of Brokk, the manufacturer of demolition robots with the same name.

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# Caterpillar's New Materials Handlers

The new Cat MH3022 and MH3024 are the smallest models in the line of wheeled material handlers in the greater than 20 ton size class. They feature a new engine and hydraulic system that combine to reduce fuel consumption by up to 10 percent. Redesign of the cab and cab access, added lighting, and vision-enhancing cameras promote safety, comfort, and convenience for the operator. A wide choice of dedicated front linkages, work tools, guards, and undercarriages allow the new purpose-built models to work in industrial, scrap-recycling, mill-yard, and waterway applications.

The MH3022 and MH3024 use the Cat C7.1 ACERTM engine, rated at 169.5 hp (126kW), and have operating weights of 22.7 tons and 25.7 tons, respectively. The engine meets U.S. EPA Tier 4 Final/EU Stage IV emission standards.

The engine integrates an emissions after-treatment system. Emissions technology includes the Cat NOx-reduction system, selective catalytic reduction,

diesel oxidation catalyst, diesel particulate filter, and high-pressure/common-rail fuel system. The design of the engine and the after treatment system results in low fluid consumption for new models.

A new electronically controlled hydraulic system combines with new medium-pressure pumps and new fan pump to enhance hydraulic response and reduce overall load on the engine for greater fuel efficiency.

The MH3022 and MH3024 can be equipped with a variable angle boom, one-piece boom, or material-handling boom, as well as a choice of sticks, quick coupler, and work tools. As matching work tools with the machine is critical for productivity and efficiency, a variety of Cat work tools are offered to dig, sort, load, or strip any kind of material. Machine hydraulic pressures and flows can be easily adjusted from the in-cab monitor, while the operator can adjust the machine behavior to the task and to personal preference.

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



## McLaren Industries Expands Nu-Air Solid Cushion Tires to Include Backhoes



Backhoe owners and operators can finally experience the unparalleled durability, comfort,

and traction of McLaren's Nu-Air solid cushion tires for both front and rear backhoe tires.

## Chicago Pneumatic Outshines Competition

Chicago Pneumatic CPLT M10 light towers have been chosen by Diesel Power Open Cast Mining, one of South Africa's leading opencast mining contractors, following a live demonstration where the light tower outperformed competitive models.

The night demonstration included DPOCM measuring the lux results and the CP tower outshone its rivals with 110lux at 164 ft (50m), 21lux at 328 ft (100m), and 3lux at 492 ft (150m). The tests resulted in the CPLT M10 outperforming the competition models by being the only light tower to record lux measurements beyond 492 ft (150m).

It was this superior lighting performance, which ultimately convinced DPOCM to opt for the CP light towers. "Previously we always rented light towers," says DPOCM technical director Steve Lambert. "We were



convinced to purchase ten due to the flexibility it gives us to deploy them when and where they are needed and crucially the assurance that we are using high quality products."

All the CPLT M10 light towers are in use at one of DPOCM's copper mine operations in Botswana and supported by CP distributor USS. "We looked carefully at the light tower supplier and their aftermarket services, and I am pleased to say the support offered to date has been exemplary," said Lambert.

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

## Sandvik's High-Performing Scalping Solution

Sandvik Construction Mobile Crushers and Screens has refreshed the flagship QE440 scalper with the QE441, the latest addition to the Premium range of scalping screens.

Key refinements on the QE441 include updates to the screenbox, screen drive, and screen media, which increases uptime, performance and versatility. Other improvements include upgrades to the apron plate feeder, wear-resistant hopper, and remote controls.

To improve the experience for operators, the QE441 includes Sandvik's easy-to-use control system and user interface with sequential start, while two-speed tracking helps reduce travel time between sites. The

QE441 offers increased durability and operator comfort, without sacrificing performance.

The QE441 can accept robust infeed material and is better suited to large quarrying, mining, and recycling applications. It can also work as a stand-alone unit feeding a primary crusher.

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



Two Nu-Air versions are available for backhoes. The Dirt Terrain (DT) tire excels in off-road applications where aggressive traction and high stability are important. Their deep tread lugs ensure a solid grip on sand, rocks, or deep mud. The All Terrain (AT) tire is a good option for mixed-purpose vehicles. The zigzag tread pattern provides a smoother ride with less wear on asphalt, concrete, and other hard surfaces, yet still delivers good traction when going off road.

Backhoes can now be completely fitted with the Nu-Air series tires, which utilize three layers of unique rubber compounds and multiple shock-absorbing relief holes to create a smooth ride and unrivaled durability. Flat-proof technology eliminates the need for tire protection, while the extra weight of the tires lowers the backhoe's center of gravity and provides crucial sta-

bility on harsh terrain.

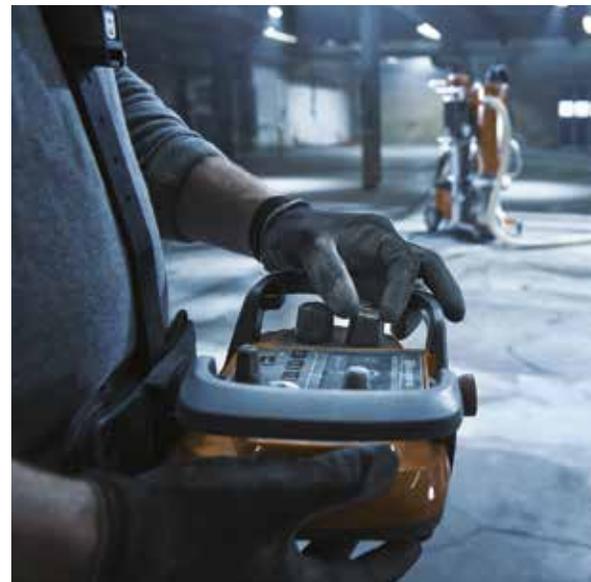
With more than a decade of research and development, this innovative product integrates the strength of a solid tire with the smooth, cushioned ride of a pneumatic tire. Featuring a lower cost per hour, the solid cushion Nu-Air tire series has become widely known as the economically smart alternative to foam-filled or conventional pneumatic tires.

"McLaren's solid cushion tires have become hugely popular among owners and operators of skid-steer loaders, telehandlers, wheel loaders, and forklifts, so it was only natural to add backhoe tires in the mix," says George Zafirov, marketing manager for McLaren Industries. "It makes practical sense, too, given the typical rugged, unforgiving work environment backhoes experience on a regular basis."

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# Tyrolit's Lightest



Tyrolit Hydrostress used the recent Internat show in Paris, to launch the light and compact WSE811 wall saw with a cutting depth of up to 12.4 in (315mm).

The saw head, control unit, and drive are combined into a single package, which has a maximum power output of 12 hp (9kW) at 16A. Due to the integrated design, the 56 lb (25.4kg) wall saw operates with only one power supply and one water con-

nection. Perfectly coordinated, weight-optimized system components, such as the track and blade guard, allow for easy setup and takedown, ensuring simple operation and maximum mobility when cutting windows and doors. The WSE811 is driven by a P2 drive. With this high-frequency technology, integrated permanent magnets reduce heat as well as motor speed, take the strain off machine components, and cut maintenance requirements.

[www.diamondproducts.com](http://www.diamondproducts.com)  
[www.tyrolit.com](http://www.tyrolit.com)



## New Sila 5000A2 Air Cleaner

The Sila 5000A2 air cleaner has a capacity of 148,321 ft<sup>3</sup>/hour (4,200m<sup>3</sup>/hour), and has been developed to clean the air in large rooms and manage large amounts of air born dust. The machine is equipped with two HEPA H13 filters, with an area of 289 ft<sup>2</sup> (26.86m<sup>2</sup>). The design allows the upper filter to be less burdened with heavy dust, which prolongs the capacity of the air cleaner. The machine has two outlets where one outlet can create a negative air pressure while the other circulates the air in the room. Despite the machine's high capacity the power

consumption is only 2 x 500W.

Sila 5000A2 is equipped with two coarse filter hatches that makes filter change easy and protects the HEPA-filter from shocks and blows.

For transport, the Sila 5000A2 is equipped with two large flat free wheels. The machine can be transported horizontally and is also equipped with a lifting eye, one

filter guard per filter, and variable speed.

The Sila 5000A2 uses the same coarse filters, HEPA filters and evacuation hose as the Sila 2000A2. An optional decontamination magnetic frame eliminates the use of tape against the air cleaner when used against temporary walls. A 656 (200m) long disposable hose is also available.

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



## Caterpillar Launches E Series Hammers

Ten new Cat E-Series hammers for use with mini excavators, skid-steer loaders and backhoe loaders, are available in silenced and side-plate versions. Four sizes—H35, H45, H55, and H65—are offered in two mounting configurations for installation on Caterpillar and competitive carriers. Silenced hammers, identified with "S" in the model designation, use a fully enclosed housing to suppress noise. Non-silenced, side plate models are available for all four sizes. Flat-top models allow installation on Caterpillar and competitive equipment. Pin-on models are available for the H55E and H65E in applications that require a dedicated, ham-

mer-equipped Cat machine.

The hammers match auxiliary flows and pressures of the Cat machine with hydraulic ports positioned for convenient installation. As soon as the hammer is plugged in, it is ready to perform. The suspension system on the silenced models include buffers at the top and bottom to absorb reflective forces and isolate them from the machine. A suspension jack helps to dampen vibration and sound.

To protect the hammer from internal stress, an automatic shut-off can be activated. This instantly stops the piston when the hammer breaks through material, which in



turn protects the hammer from blank firing. The new hammers include 47 percent fewer parts than their D-Series predecessors.

There is a single grease point and tool changes are made with normal hand tools.

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

# *The Unsung* **HEROES**

As important as breakers are to construction and demolition projects, they don't always get the positive attention they deserve. Manufacturers are doing their best to change this.

In the game of American football, the so-called "skill players" who run, pass, and catch the ball usually get all the attention. But their talents are of little use without the big, burly players at the scrimmage line. They're the ones who repeatedly collide with equally big, burly defenders long enough to allow plays both simple and intricate to unfold.

As critical as that role is, it's also one where anonymity is typically coveted, for the only time a lineman's name is called is usually when he's done something wrong.

Breakers play a similar albeit higher profile role in the world of construction and demolition. They are the tools tasked with reducing something usually intended to endure into disposable pieces. The more efficient breakers are at completing this relatively unglamorous work, the more quickly the site can be cleared so that something new can

be put in place. Afterward, the only thought given to what the breaker did to make that possible is the contractor's decision if and when to use that tool again. That's a choice breaker manufacturers try to make easy by continually striving to make their products more productive, longer lasting, and easier to operate and maintain.

Those last factors have gained increased importance in recent years with growing concerns about the long-term effects of repetitive stress on workers (in this case, the weight and vibrations of hand-operated breakers), and the time and cost necessary to keep tools of all sizes in top operating condition. Indeed, many contractors value them more than breaking power, for what good is all that energy if it has to be paid for more than once through healthcare and repair costs? Over the next several pages,

you'll see some of the latest innovations that are keeping breakers large and small in step with the ever-higher expectations of their prospective users. These products may never rise about their status as low-profile contributors to the construction and demolition process. But those that do their jobs efficiently, reliably, and safely will never be unappreciated.

## **Furukawa Rock Drilling debuts new FXJ line**

The newly designed FXJ line of hydraulic breakers from Furukawa Rock Drilling is one of a kind in the market, thanks to the new mono-block design. With this new design there are no through bolts needed and it ensures more power and resistance. With multiple patented enhancements, the



FXJ series improves day-to-day performance, offering less maintenance and downtime, smoother operation, superior strength, and the highest level of reliability. A wider hydraulic flow range allows for use on a broad range of carriers reducing inventory while increasing utilization. All FXJ models are also designed to accommodate automatic grease systems for quick daily maintenance.

The FXJ175 is a mid-size hammer designed for use on 12- to 21-ton excavators and pedestal booms. Operators appreciate performance features such as a stroke control, which lengthens or shortens the stroke and adapts the impact energy to the material being broken. Internal maintenance is greatly reduced due to the mono-block cylinder and less parts.

The FXJ275 will cover a wide range of excavators (18 to 30t) and leaves its competitors behind. With the slim body design there will be no job that is too demanding. The FXJ is at home, performing with reliable ease on a daily basis.

Designed for excavators in the 25 to 42t range, the FXJ375 is a hard hitting breaker that has no rivals. With years of research behind each hammer, it's no surprise the FXJ outperforms the competition. It starts from the inside out with a patented mono-block cylinder. A larger piston diameter and increased back head pressure improves the breaker impact performance. An optional hi-lo speed control actuated from the cab matches the breaker and excavator to the application.

Excavators in the 33-55t class are the perfect match for the FXJ475. Whether you're breaking blue granite in Scandinavia or reducing oversized boulders in Spain, the FXJ475 performs its job quietly and with ease. The unique one-piece enclosure and damper system reduces noise levels for use in noise sensitive environments. A higher back head pressure and larger piston diameter increases impact performance. Greasing has been made easy with a unique lubrication system for the front section and front bushings which improves the service and lifetime of the rod.

Specifications	FXJ175	FXJ275	FXJ375	FXJ475
Operating weight (kg/lb)	1,015/2,237	1,775/3,913	2,525/5,566	3,205/7,065
Height with rod (mm/in)	2,043/80.43	2,468/97.16	2,715/106.882	2,892/113.85
Oil flow (l/min)	100-160	145-220	170-260	200-300
Oil flow (US gal/min)	26-42	38-58	44-68	52-79
Impact rate (bpm)	450-900	350-620	350-450	250-450
Impact energy (J)	3,610	5,120	7,310	9,620
Impact energy (lb ft)	2662.63	3776.36	5391.65	7095.44
Rod diameter (mm/in)	120/4.72	140/5.51	155/6.10	170/6.69
Rod effective length (mm)	620/24.40	680/26.77	715/28.14	720/28.34

### Atlas Copco's 2015 Cobras™ shed their skin for more efficient operations

Atlas Copco introduces its 2015 range of Cobra PROe and TTe petrol breakers. The unique percussion mechanism delivers engine power with minimum losses to the tool

tip, resulting in impact energy of 60J (PRO version), respectively 40J (TTe version). Both versions are now available with 25mm x 108mm shank sizes, making the Cobras shorter and lighter, and minimising vibrations even further.

The redesigned Cobra PROe and Cobra TTe have up to 10-percent fewer vibrations than earlier models. "Using a handheld breaker for long periods can be exhausting for the operator. But thanks to the improved Atlas Copco hand-arm protection system (HAPS), operators can work longer and stay well within limits of recommended health and safety standards" explains product line manager Oleg Korobotchkine. "And as now it can run on the alkylate petrol, operator's exposure to harmful exhausts is significantly lower as well as the environmental footprint."

Cobra PROe is ideal for breaking, asphalt cutting and post driving. With 60J at the tool tip it can break silica rich rocks and reinforced concrete. Cobra TTe is the most optimal punch for tie tamping. With 40J at the tool tip, the TTe delivers high enough energy to push the ballast back under the ties and low enough to prevent the pulverization of ballast.

The Cobra system is a standard choice for many utilities around the world when the access to the working site is limited due to the conditions or difficult in the emergency case. By offering more power and a greater variety of sizes, the 2015 Cobra system aims to make it even easier both for civil and rescue workers to conduct construction tasks or save lives in every situation.



with unmatched productivity when processing homogeneous materials.

The heavy-range hydraulic breakers have recently been redesigned to extend service life and reduce operating costs.

The V1800 and V2500 feature a new heavy-duty housing that reflects the design of larger two-speed models, as well as the design of fully variable Montabert hydraulic breaker models. In addition, the hydraulic breakers' fully enclosed heavy-duty cradles minimize ambient noise on the jobsite and protect working parts from dust and debris.

The new V1800 and V2500 feature two steel bushings. Operators can easily replace the lower bushing in the field without dismantling the breaker from the carrier. The two models also feature a modified lower suspension system that extends the service life of the suspension system by reducing the wear on working parts.

An optional soft-start feature is now available on the Montabert V1800 and V2500 hydraulic breakers. Equipped with the soft-start feature — installed before or after purchase — the hydraulic breaker delivers high frequency and low energy at the onset of operation. After a few seconds, the breaker resumes normal operation, delivering higher energy at a lower frequency.

Ideal for activities such as rock splitting and oversize breaking, the soft-start feature minimizes blank firing effects by creating a niche in the material for better positioning and energy transfer — preserving the breaker's tool retainers and front guide. Further, the operator can manually adjust the hydraulic breaker into high frequency and low energy mode when working on soft ground.

Standard features of the V1800 and V2500 include a blank-fire protection system that reduces harmful metal-to-metal contact and an energy recovery system that recycles recoil energy from the piston to increase strike power.

In addition, the hydraulic breakers' upper and lower suspension extends the excavator's work-group life by absorbing harmful vibrations, while an automatic cradle or excavator-mounted grease station delivers continuous grease flow — reducing bushing and tool wear. An optional air pressurization kit is available for underwater applications.

Working tools available for the V1800 and V2500 include a general purpose moil, a blunt tool and a chisel.

### Montabert V1800 and V2500 Evolution hydraulic breakers provide extended service life protection

The Montabert V1800 and V2500 Evolution hydraulic breakers feature an automatic two-speed variation system — adjusting their impact energy and striking rate to deliver high energy per blow on hard ground, and high frequency on soft ground — providing construction and demolition contractors, as well as aggregates producers,



#### Technical specifications

	V1800	V2500
Carrier weight (t)	25-30	27-40
Operating breaker weight (kg/lb)	1,885/4,155	2,570/5,665
Tool diameter (mm/in)	140/5.51	160/6.29
Flow Range (L/min/US gal/min)	140-220/36-58	175-250/46-66
Striking Rate (bpm)	310-800	800
Impact energy class (J/lb ft)	8,135/6000.14	10,846/7999.70

### New E-Series Cat® hammers combine design simplicity with advanced features

Ten new Cat® E-Series hammers - designed for use with mini excavators, skid-steer loaders and backhoe loaders - are available in both "silenced" and side-plate versions. Four sizes —H35, H45, H55 and H65 — are offered in two mounting configurations for installation on both Caterpillar and competitive carriers.

Silenced hammers, identified with "s" in the model designation, use a fully enclosed housing to suppress noise—a valuable feature in sensitive work environments and in small-machine applications in which the hammer is

## Technical specifications

	H35Es/H35E	H45Es/H45E	H55Es/H55#	H65Es/H65E
Carrier weight range (kg)	1,100-2,400	1,500-3,200	2,500-6,000	3,000-9,000
(lb)	2,425-5,291	3,306-7,054	5,511-13,227	6,613-19,841
Impact frequency (bpm)	600-1,680	780-1,800	600-1,680	720-1,740
Energy class (J/lb ft)	407/ 300.19	542/300.19	813/599.64	1,085/800.26
Rated flow (L/min)	12-35	25-62	30-85	40-115
Rated flow (US gal/min)	3-9	6-16	7-22	10-30
Max pressure (kPa)	16,500	17,000	16,500	16,500

in close proximity to the operator. Non-silenced, side plate models are available for all four sizes. Flat-top models allow versatility for installation on Caterpillar and equipment made by other manufacturers. Pin-on models are available for the H55E and H65E in applications that require a dedicated, hammer-equipped Cat machine. Several features assure convenient installation, comfortable operation, and long hammer life. These hammers are designed and engineered to match auxiliary flows and pressures of the Cat machine. Plus, hydraulic ports are positioned for convenient installation. As soon as the hammer is "plugged in," it is ready to perform. Suspension system on the silenced models include buffers at the top and bottom to absorb reflective forces and isolate them from the machine. A suspension jack helps to dampen vibration and sound. The result is quiet, reliable operation and reduced operator fatigue. To protect the hammer from internal stress, an automatic shut-off can be activated. This instantly stops the piston when the hammer breaks through material which in turn protects the hammer from blank-firing. These new E-Series hammers include 47 percent fewer parts than did their D-Series predecessors. This allows for quicker and easier servicing. When it comes to daily maintenance, a single grease point is conveniently located and easily accessed. Tool changes are accomplished with common hand tools.

### GLOBRAM extends product range

The GLOBRAM RM 90 model was recently reintroduced to the GLOBRAM production program. With the introduction of the RM 88 several years ago, demand for the RM 90 dropped drastically and the model was almost forgotten. As a result the RM 90 was only produced on demand. In recent months, manufacturer Euroram-Rockmaster BV noticed an increased demand for the RM 90 from its customers. Dealers who had been working successfully with the RM 90 in the past, once again showed great interest in this model. During the annual end-of-the-year market analysis, it became clear that the increased demand is the result by a shift in the excavator weight classes: the market share of the 11- to 12-ton machine class has grown considerably. This weight class especially can benefit from the increased productivity of the RM90. Before reintroducing the GLOBRAM RM 90, engineers completely revised the model, and equipped the breaker with the latest features. The RM90 now has a completely new casing design, with special noise absorbing coating. The breaker is equipped with the Intelligent Breaker System—a fully automatic system that will self-adjust power and blow frequency based on the material to be broken. For optimal efficiency, softer materials require a higher hitting frequency, while harder materials benefit from a greater impact power.



## Technical specifications

	RM 90
Operational weight (kg/lb)	650/1,433
- Breaker-only weight (kg/lb)	490/1,080
- Energy class (J/lb ft)	1,400/1032.60
- Machine class (t)	7-15

### Idromeccanica Ramtec's "Made in Italy" breakers

With nearly 40 years of experience, Idromeccanica Ramtec is one of Italy's leaders in earthmoving equipment, distributing its products to more than 50 countries worldwide. Idromeccanica Ramtec's hydraulic breakers, available in weights from 80kg to 3000kg, are suitable for any machine from 1t to 50t. The breakers are used for a wide range of projects such as the demolition of cement structures, quarry works, road works and several other applications. The breakers can also be supplied with automatic greasing devices that work with the vibration of the breaker. The

new and improved models that have been added to the range are all able to tolerate high back pressure being, allowing them to fit newer machines equipped with pressurised oil plants. Underwater and silenced versions of Idromeccanica Ramtec breakers are also available,

Idromeccanica Ramtec offers a range of hydraulic plate compactors from 170kg to 900kg fitting machines from 1t to 20t. These products are used to compact trenches, prepare a solid base for road paving, and other similar tasks. Idromeccanica's compactors can also be used as a pile driver by means of a special device.

Other products manufactured by Idromeccanica Ramtec include wide selection of hydraulic shears, crushers, selection grabs, rippers, and buckets for any job and need. A large number of non-original spare parts are also available for the most common hydraulic breakers such as Atlas Copco, Furukawa, Krupp, Montabert, NPK, Okada, Rammer, Soosan, and Toku. Parts are guaranteed to be available at all times, with shipment to any part of the world.

All Idromeccanica Ramtec products are made exclusively in Italy, ensuring top quality and value, as well as a prompt and efficient after-sales service. The company uses only first-class raw material, an efficient and skilled technical staff, and the latest manufacturing technology, resulting in high quality and precision.

### Okada Series breakers continue a tradition of quality

Okada Aiyon Corporation has been a leading manufacturer of a variety of demolition equipment and attachments



since 1938. Long an innovator in the field, the company continually looks for ways to expand the capabilities and versatility of its demolition attachments. As a result, Okada has become one of the world's leading authorities on hydraulic attachment technology. The firm's precision engineering and stringent quality control help ensure long product life and consistently high quality output.

Take the Okada Series breakers for example. Released in 2013, this series continues a tradition of high-quality, high-performing products that first arrived in the 1970s. Each product is inspected regularly during production, with a 100-percent bench inspection before delivery to ensure compliance with strict quality control standards. The breakers are operator-friendly, with reduced vibrations, an anti-blank firing system, anti-abrasion box-style bracket design, and blow speed control adjuster. The Okada Series breakers have been used by a thousand of users around the world, and provide an ideal solution for specific job-site challenges.

### Corimag breaker tools

Corimag srl is one of the leading manufacturers of high-quality tools for hydraulic hammers. Our reliability is acknowledged by some of the most important worldwide OEMs. All our tools are manufactured using steel, selected according to our particular specifications. The unique heat-treatment is based on extensive research and Corimag's to improve fatigue strength, hardness, impact strength, and resistance to wear of all our tools

Corimag's X profile tools were developed and patented in 1996 for use on compact and dusty rocks. The X profile



promotes dust discharge, reducing the cutting effort and cutting edge temperature. An X-provide version of Cormag's HMP tools for hard and abrasive rock breaking combines the inherent hardness of the metal core insert with the advantage of the dust discharge. This tool can endure high operating temperatures, keeping its sharp shape and providing a service life as much as 10 times longer than a conventional tool, plus reduce replacement costs.

Corimag also produces a special self-lubricating bushing, used mainly for heavy hydraulic breakers. These bushings reduce friction and temperature, while increasing breaker efficiency and almost completely eliminating seizures. The risk of breakage is also reduced.

### The quarry-tested Promove XP4500

Basalt rock is well known for being hard and extremely abrasive. All the machines used in the extraction process—hydraulic hammers, excavators, loaders, crushing plants—face critical conditions due to the very high wear caused by friction and impact with it. Back in 2002, when Promove decided to step into heavy-size hammers, an Italian basalt quarry was chosen for testing the first prototypes. A 3-ton unit named P45 PS (now known as the XP3100) and fitted onto a CAT 330C was used for more than one year in breaking boulders deriving from the blasting activity. After the positive result of the test, another two units arrived in the quarry to increase the production. Today, a new XP4500 mounted on Hitachi ZX520 continues the superb job done by those smaller hammers over ten years of extremely hard work. Thanks to its blank-firing prevention system, Promove's XP hammers proved to be highly reliable in secondary demolition as well as in tunneling construction. Furthermore, features like impact energy vs. frequency adjustment allow these breakers to be success-

fully utilized for both hard rock and light applications such as road maintenance or municipal works.

The XP4500 shows noise and vibrations level to the lowest level on the market. Operators who previously used comparable breakers from other manufacturers wondered about unexpected smooth functioning. The nitrogen chamber over the head of the piston absorbs excess vibrations, returning energy to the percussion. In addition, the power unit is completely insulated from the outside casing via a series of heavy-duty polyurethane dumping elements. As a result, operator and carrier benefit from comfortable operation and substantially reduced risk of damages from excessive vibrations. The XP4500 fully represents Promove's idea of "high quality" in demolition equipment: the perfect combination of high breaking performance (productivity), outstanding reliability, low maintenance requirements, and fast support to customers. And thanks to accurate studies of hydraulic efficiency, the breaker requires less oil flow than any comparable model in its class, resulting in less fuel consumption and a lower cost-per-cubic meter.

Technical data	XP4500
Service weight (kg/lb)	4,380/9,656
Tool diameter (mm/in)	180/7,08
Oil Flow (l/min/US gal/min)	275/345 72/92
Working pressure (bar)	180
Impact energy (J/lb ft)	15,250/11247.97



## Premium Breaking in Brazil

A Brazilian mine operator is using a Rammer 3288 hydraulic hammer in a secondary breaking application to maximize production at a facility in Brumadinho. The 4,489 lb (2,040kg) hydraulic hammer is helping to increase the production of Itabirite at the FLAPA Mining site. Part of the Top Mix Group, the company operates in the heavy construction, dredging, mining, assembly and operation of processing and ore crushing plants.

Founded in 1993, FLAPA Mining has a reputation for innovation and the effective management of its staff and equipment. Excellence of these processes resulted in the award of ISO Quality Certification and PBQPH, and in the delivery of a more complete service to its clients.

At the company's Fábrica Mine, Jangada Mine, Capão Xavier Mine, and Capitão do Mato Mine, which are all operated by main contractor Vale, this quest for innovation and efficiency led to the purchase of the Rammer 3288 to break up oversized boulders prior to crushing and processing.

"The iron ore is extracted from the mine primarily using explosive methods," explains General Manager Paulo Thiago Miranda. "Any oversized material that is too large for the crusher is broken again using the Rammer 3288."

Miranda also says that the Rammer hammer represented a significant investment, but that his company was willing to pay a premium to get the best available hammer.

"We consider Rammer a premium brand," he says. "It is a bigger financial investment, but we have fewer maintenance problems and a marked gain in production. We understand that the Rammer is the hammer with the most advanced technology available in the Brazilian market, maybe in the world. Also, it has the credibility of the Sandvik name behind it."

With the relatively remote location of the mine and its dependence upon the reliability of the Rammer unit, FLAPA is reliant upon the after-sales support provided by local Rammer dealer, Rock Brit.

"Despite the tough working environment and long working hours in dusty conditions, the hammer has stood up extremely well," Miranda says. "In the first seven months of operation, we have had to order no parts. On the one occasion that it was sent to Rock Brit, it was only for washing and reading of the Ramdata diagnostic information."



## A Unique Supplier of Mist

Mist-Air classic dust suppression and odor absorption systems suppress dust, absorb odors, and eliminate insects in all sizes of buildings without wetting floors, stored materials, machines, or personnel. Because the mist-air base unit has the capacity to produce huge volumes of fog, just one unit can supply several areas or buildings simultaneously with precise and independent control over each area. The system can easily be expanded or relocated to accommodate retrospective changes in operations.

Mist-Air offers a unique mobile solution to localised dust problems caused by outdoor shredding, crushing and screening operations. The misting screen system uses very little water and power, and the surrounding area remains relatively dry. The ultra-fine fog particles are extremely effective at absorbing fine dust particles, thus preventing them from migrating to other areas.

Mist-Air has teamed up with WLP and can now offer fog cannons for suppressing airborne dust very effectively in large outside areas. These fog cannons produce a heavier water droplet compared to the mist-air system. The range of fog cannons can be supplied in various sizes mounted on off-road trailers, skids for forklift movement, or on permanently positioned base plates.

Mistral wheel wash systems are used for preventing site traffic from tracking out dirt and contaminants onto public roads. All systems are supplied complete with the necessary water recycling and sludge management systems. Customized wash systems for extra-large site vehicles and construction machines can also be supplied.



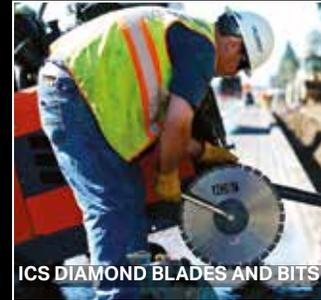
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## Solo Cut-Off Saws

Solo introduced a range of cut-off saws in 2012 following seven years of research. The models 880 and 881 set new standards in ergonomic design, refined technical features, and ease of maintenance unique in this engine class. Available in 11.8 in (300mm) and 13.8 in (350mm), the 880 and 881 models are powered by an 81cc Solo two-stroke 5.3 (4kW) engine. An automatic choke system enables easy starting, and a one-push stop system allows the operator to safely stop the saw. The saws are equipped with an anti-vibration system that employs five steel springs and rubber-coated handles to reduce user fatigue.

The 881 series utilizes the patented iLube engine with intelligent lubrication system, which eliminates the

need for pre-mixed fuel. An electronically controlled pump adds the correct quantity of 2-stroke oil (metered to suit the engine speed) to the fuel from a separate .08 gallon (.32 litre) oil tank. There is no need to pre-mix fuel and oil and excludes any risk of incorrect fueling, which is a main cause for expensive engine damage. A full oil tank is sufficient for up to 20 fuel tank fillings.

If there is insufficient oil in the tank, the engine automatically switches to a fault mode that reduces speed to just above idling. This will also prompt a change in the engine sound compared with normal operation, signaling the need to replenish the oil tank.

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



shows

# “We Believe

## M & T Expo 2015 show signals for return of good business

The biggest event of the construction and mining sectors in Latin America is the M & T Expo 2015 in São Paulo, Brazil. It is considered a barometer of the economy of the region, signaling possible resumption of growth.

Text and photos: Luiz Carlos Beraldo. Background photo ©Dreamstime. Photo Mr Mamede © Top Crane.

More than 47,500 visitors came for the 1.08 million ft<sup>2</sup>(100,000m<sup>2</sup>) M&T Expo at the Sao Paulo Expo Exhibition & Convention Center June 9- 13. The latest innovations from more than 400 exhibitors from Brazil and around the world were on display. The exhibitors represented a total of 1,000 product brands spanning equipment and machinery for transport, crushing and recycling, rock drilling, concrete work, earth moving, demolition, concrete sawing and drilling, concrete floor grinding, loading, handling and lifting, flooring, forms and shoring, as well as parts, components, and services.

As was the case in 2009, there was a climate of uncertainty about the future of Brazil and Latin America economy, which has been affected by major crises in the global economy. This time, however, beyond the ups and downs of world economies and local effects such as the devaluation of the Brazilian real, the country is faced with scandals involving Petrobras, the state oil company, and money laundering operations. Because of this and other scandals, the government of President Dilma Rousseff faces the biggest crisis since her party took power in 2003.

Completing 20 years and consolidated as the largest fair of construction and mining equipment in South America, M & T Expo 2015 brought together two events—the 9th International Fair and Congress of Equipment and Construction and 7th Fair and Congress International Mining equipment. The show attracts contractors, service responsible, sales people and representatives of the whole supply chain of construction and mining sectors in Brazil and Latin America. There is also an increasing participation of exhibitors and also visitors from other continents.

“The sales impact before, during and after the M & T Expo usually represents between 20 percent and 30 percent of total annual sales, which historically is set at [US\$ 4.8 billion]15 billion real,” estimated Afonso Mamede, president of Sobratema, the Brazilian Association of Technology and Construction, founder and organizer of the fair. “But this year, due to the

**Afonso Mamede, president of Sobratema**



slowdown, we are expecting around should be of 10 billion real.”

In 2009, the Brazilian government used M & T Expo to announce a new investment plan for infrastructure, contributing to the resumption of economic growth. This time the Brazilian government did the same thing—announce a new infrastructural plan—hoping to get similar result. An investment package of US\$63.3 billion (198 billion real) will contribute to the start-up of several infrastructure projects in the near future.

The good news had an immediate positive impact, which is



**Ningboo Yinzhou Huakang Engineering Hydraulic Fittings Factory Sales Manager Cathy Ren.**



**Afonso Mamede, president of Sobratema**



**Carlos Leonel, market analyst at Kotra Korea Trade-Investment Promotion Agency.**



# in Brazil”



Renato Sanches, Caterpillar Brazil.

not always the case. The voters' confidence in the government has taken some bumps due the current crisis.

The devaluation of the Brazilian currency affects those who depend on imports to supply the Brazilian market, but it increases the competitiveness of local businesses in exports. Imports are more expensive, which favor local manufacturing. A good example is the young Brazilian company Tecnic Industrial Electronics. The company displayed its first remote control system for cranes with 100-percent Brazilian technology, which has been approved by Anatel, the official regulator of the quality of such products. Founded in 2001, Tecnic is dedicated to designing and manufacturing of embedded systems for machinery, implements, and industrial processes. The clients are large manufacturers of road equipment, industrial equipment and mining.



Roberto Torres Marques, John Deere Brazil.

## China and Korea in Blocks

In addition, other small and medium-size companies from China and Korea are hoping to multiply their order books through sales in South America. Part of this effort was to participate in the M & T Expo, as several of the Asian has participated with great success in earlier years. Groups of Korean and Chinese companies gathered in small stands in separate pavilions but with enough space to display small products or posters with pictures of parts or product lines of various manufacturers.

The Ningbo Yinzhou Huakang Engineering Hydraulic Fittings

Factory of Ningbo, China, participated in the Brazilian fair for the first time, along with other Chinese companies that span the event in so called mini-stands blocks.

"We already have some customers, but we expect to increase our business in the Brazil," said Sales Manager Cathy Ren. "Although I think the number of visitors was not that high in the beginning of the show I hope to do good business here." Indeed, the total number of visitors to the M & T Expo 2015 was 47,000, well below the organizers' initial forecast of 54,000 visitors.

Carlos Leonel, market analyst at Kotra - Korea Trade-Invest-





ment Promotion Agency, is one of those responsible for supporting Korean businesses at foreign events such as the M & T Expo.

"We have gathered in this hall a group of 12 companies interested in prospecting business in Brazil and Latin America," he said. "Even with the bad market, we believe that the trend is to increase the participation of Korean companies in the country as soon as the economy returns to growth."

**To come out ahead**

Having completed its 60th anniversary observance of installing its first machine factory in Brazil, Caterpillar reasserted its leadership in the local market and its position as the largest Brazilian exporter of machinery and construction equipment. Showing more than 20 new models in its stand of over 21,528 ft<sup>2</sup> (2,000m<sup>2</sup>), the company appeared unconcerned about the institutional and economic crisis now facing Brazil.

"In 2015 the sales in our market sectors are expected to be 17 percent lower than previous year," said Renato Sanches, public relations department at Caterpillar Brazil.

"Therefore 2015 is a year of preparation, during which we upgrade our product lines to be ready for the recovery, which may begin in the last quarter of 2015 or in the first 2016."

In addition to investments, the industry and brand dealers approved cost reduction plans in order to come out ahead when demand returns. "Brazil is a country under construction and only those who are present here, with local factories, can be successful in this market which has great growth potential," said Sanches.

After a more timid participation in M & T Expo 2012, John Deere participated with a large booth in the same size as already established brands such as Caterpillar and Volvo. In a total area of 20,667ft<sup>2</sup> (1,920m<sup>2</sup>), the company featured 16 John Deere and Hitachi machines, highlighting the launch of larger imported equipment, complementing the current line of loaders, shovels, and hydraulic excavators.

The 744K-824K-II and II loader-blades, the 672G grader, and the 470g hydraulic excavator are now available for the Brazilian market. The Parts and Services area was also in evidence, especially the John Deere WorkSight system of technological solutions package that integrates and optimizes the machines' availability, effectiveness, and generation of analytical data.

**"Governments come and go..."**

Roberto Torres Marques, Leader of the Construction and Forestry Division, said that the difficulties that Brazil is going through right now should not impact the company's plans in the country.

"We have a medium- and long-term strategy, just to consolidate large investments and we will continue investing normally in the country," he said. "John Deere has been around for 178 years and has throughout its history become accustomed to live with the ups and downs of economies of countries where it operates. Brazil remains, in the view of John Deere, a country with a promising future in the medium and long term. It stands on global food production, and needs to download their production costs to stay productive. We are directly connected to it, because we have the machines that help improve productivity in food and also to build infrastructure and reduce transportation costs and energy generation."

As an example, Marques notes that the United States, with territory of 106 million ft<sup>2</sup> (9.8 million m<sup>2</sup>), has about 2.5 million miles (4 million km) of roads, while Brazil, with 91.5 million ft<sup>2</sup> (8.5 million m<sup>2</sup>) of land, has "only" 124,274 miles (200,000km) of roads. In other words, there is still a huge potential to be explored.

"Governments come and go. Countries continue. Brazil is a country to be believed. We believe in Brazil," said Marques.

Since the early days of the M&T Expo it has been a custom to salute when sales deals are being closed in the booths at the show. And this continues. Each closing of a business deal was

celebrated with enthusiasm in the stands. Some exhibitors play music or make loud sounds from fireworks. Or they put up posters stating that those equipment were already sold.

"We believe that the medium- and long-term expectations scenario is auspicious and, to the extent that the direction of our economy are corrected, we will be returning to our historical levels," the president of Sobratema, Afonso Mamede.

Of the 400 exhibiting companies at M&T Expo there were quite a number of companies offering machines and tools for the special sectors. Some of the well-known names included Husqvarna Construction Production, which had a big outdoor booth; Indeco; Liebherr; Link Belt Excavators; Machbert; Terex; Ausa; Cangini; Atlas Copco; Case; Erkat and Metso. Sobratema, the organizer of the M&T Expo announced that in June next year they will organise a new exhibition called Construction Expo, also in São Paulo.



**PDA Magazine at M & T Expo**

The M & T Expo 2015 was attended for the first time by PDA Magazine, with coordination and participation by Executive Sales Director for Latin America Eduardo Kubric and PDA Editor Latin America, Luiz Carlos Beraldo.

"It is our second participation in major events in Brazil," said PDA Magazine Editor-in-Chief, Jan Hermansson. "We were also present in the Concrete Show last year and will also exhibit at the show now in August. Our new event, the Latin American Concrete Cutting & Demolition Forum was postponed this year but we are now close to launching the new dates for 2016. The place of venue will be moved to São Paulo."



**PDA Magazine exhibited for the first time at M&T Expo. In the picture from the left PDA Magazine's South America Editor Luiz Carlos Beraldo and PDA Executive Sales Director South America and Latin American Concrete Cutting & Demolition Forum Eduardo Kubric.**

# M&T Expo 2015 sinaliza a volta dos bons negócios

**Maior evento dos setores de construção e mineração da América Latina, a M&T Expo 2015, considerada um termômetro da economia da região, sinaliza possível retomada do crescimento.**

Texto e fotos: Luiz Carlos Beraldo (Foto da fund © Dreamstime. Foto Sr Mamede © Top Crane).

Mais de 47,5 mil pessoas 'qualificadas', ou seja, com alguma ligação profissional ou interesse em construção e mineração, passaram pelos corredores dos 100 mil metros quadrados do centro de exposições São Paulo Expo Exhibition & Convention Center, entre os dias 9 e 13 de junho. Ali conheceram as últimas novidades apresentadas por mais de 400 expositores do Brasil e de todo o mundo, representando 1.000 marcas de produtos como equipamentos para transporte (solo e rocha); britagem; perfuração em rocha; concreto; terraplanagem; movimentação e içamento de cargas; pavimentação; formas e escoramentos, além de peças, componentes e serviços.

Assim como acontecia em 2009, duas edições atrás deste evento que acontece a cada três anos, havia um clima de incertezas quanto ao futuro da economia do Brasil e América Latina, como efeito de uma crise maior na economia global. Desta vez, porém, além dos altos e baixos das economias mundiais e seus efeitos locais, como a desvalorização do Real, a moeda brasileira, o país se depara com escândalos envolvendo a sua estatal do petróleo, a Petrobrás, em operações de lavagem de dinheiro ilegal. Por essas e outras, o governo da presidente Dilma Rousseff enfrenta a maior crise que seu partido - o PT, Partido dos Trabalhadores - jamais viu desde que assumiu a presidência pela primeira vez em 2003.

Completando 20 anos e consolidada como maior feira de equipamentos de construção e mineração da América do Sul, a M&T Expo 2015 reúne dois eventos, a 9a. Feira e Congresso Internacionais de Equipamentos para Construção e a 7a. Feira e Congresso Internacionais de Equipamentos para Mineração, atraindo principalmente empresários e representantes de toda a cadeia dos setores de construção e



mineração do Brasil e América Latina, e com participação crescente de expositores e também visitantes de outros continentes.

"A movimentação de vendas antes, durante e depois da M&T Expo 2015 deve representar entre 20% e 30% do volume total de vendas anuais, que historicamente se situa em R\$ 15 bilhões, mas que neste ano, em função da desaceleração, deve ser da ordem de R\$ 10 bilhões", estima Afonso Mamede, presidente da Sobratema - Associação Brasileira de Tecnologia para Construção e Mineração, idealizadora e organizadora da feira.

Na M&T Expo de 2009, o governo aproveitou o evento para anunciar um novo pacote de investimentos em obras de infraestrutura que contribuiu para a retomada do crescimento econômico do país. Agora, da mesma forma, esperando obter resultado semelhante, o governo brasileiro anunciou um novo pacote de concessões, com aporte de R\$ 198 bilhões para diversas obras de infraestrutura.

A boa notícia repercutiu positivamente, apesar do consenso de que será necessário algum tempo para ver os efeitos das medidas anunciadas, principalmente porque a crise de confiança ainda não foi resolvida.

A desvalorização da moeda brasileira afeta os que dependem de importações para abastecer o mercado brasileiro, mas aumenta a competitividade das empresas locais nas exportações. As importações mais caras favorecem fábricas locais, como a jovem Tecnica Eletrônica Industrial, que mostra na feira o seu G2, o primeiro controle remoto para guindastes com tecnologia 100% brasileira e aprovado pela Anatel, órgão oficial regulador da qualidade de produtos desse tipo. Dedicada a projeto e manufatura de sistemas embarcados para máquinas, implementos e processos industriais, a Tecnic, fundada em 2001, tem como clientes grandes fabricantes de implementos rodoviários, de equipamentos industriais e mineradoras.

## China e Coréia em Blocos

Assim como esta empresa brasileira, outras companhias de médio ou pequeno porte da China e da Coréia também esperam multiplicar suas carteiras de pedidos na América do Sul, tomando como porta de entrada a M&T Expo e a experiência bem sucedida com alguns grandes players já instalados por aqui.

É marcante, na feira, a participação de grupos de empresas coreanas e chinesas, reunidos em pavilhões e com estandes pequenos, porém com espaço suficiente para expor produtos pequenos ou cartazes e fotos de peças ou linhas de produtos de diversos fabricantes para atender a indústria ou o mercado de reposição.

A Ningbo Yinzhou Huakeng Engineering Hydraulic Fittings Factory, de Ningbo, China, participa da feira brasileira pela primeira vez, junto com outras empresas chinesas que se espalham pelo evento nesses blocos de mini-estandes. "Já temos alguns clientes, mas esperamos aumentar nossos negócios no país. Apesar de achar que a feira está com poucas pessoas, nesses primeiros dias, espero fazer bons negócios aqui", diz a Sales Manager Cathy Ren. De fato, o número total de visitantes da M&T Expo 2015 ficou abaixo da previsão inicial dos organizadores, que esperavam receber 54 mil visitantes (e contabilizaram 47,5 mil).

Carlos Leonel, Analista de Mercado da Kotra - Korea Trade-Investment Promotion Agency, é um dos responsáveis por atrair e dar suporte a empresários da Coreia para eventos como a M&T Expo. "Reunimos neste pavilhão um grupo de 12 empresas interessadas em prospectar negócios no Brasil e América Latina. Mesmo com o mercado momentaneamente ruim, acreditamos que a tendência é aumentar a participação de empresas coreanas no país, a partir do momento em que a economia voltar a crescer", avalia.

## Para sair na frente

A Caterpillar, CAT, completou em 2014 os 60 anos da instalação de sua primeira fábrica de máquinas no Brasil, o que por si só explica sua liderança no mercado local e posição de maior exportador brasileiro de máquinas e equipamentos de construção. Mostrando mais de 20 dessas máquinas em seu estande de mais de 2000 metros quadrados, também não se diz preocupada com a crise institucional e econômica pela qual passa o país. "Em 2015 as vendas do setor deverão ser 17% menores que no ano anterior e, por isso mesmo, é um ano de preparação, em que mantemos investimentos em atualização de linhas de produtos para estarmos prontos para a retomada, que pode começar no último trimestre de 2015 ou no primeiro de 2016", afirma Renato Sanches, relações públicas da Caterpillar Brasil.

Entre as medidas de preparação, além dos investimentos, a indústria e os revendedores da marca aprovaram planos de redução de custos "para poder sair na frente, quando a demanda retornar". Para ele, "o Brasil é um país em construção e só quem estiver presente aqui, com fábricas locais, poderá ser bem sucedido neste mercado que



tem grande potencial de crescimento", avalia Sanches.

Após uma participação mais tímida na edição anterior da M&T Expo, em 2012 (o evento acontece a cada três anos), a John Deere marca sua presença agora com um estande só comparável a grandes marcas já tradicionais no país, como a CAT e a Volvo. Em uma área total de 1918 metros quadrados, apresenta 16 máquinas John Deere e Hitachi, com destaque para o lançamento de equipamentos importados de maior porte, complementando a linha atual de pás-carregadeiras e escavadeiras hidráulicas. As pás-carregadeiras 744K-II e 824K-II, a motoniveladora 672G e a escavadeira hidráulica 470G estão agora disponíveis para o mercado brasileiro. A área de Peças e Serviços também esteve em evidência, com destaque para o sistema John Deere WorkSight, pacote de soluções tecnológicas que integra e otimiza as máquinas em disponibilidade, eficácia e em geração de dados analíticos.

## "Governos vêm e vão..."

Para Roberto Torres Marques, Líder da Divisão de Construção e Florestal, as dificuldades pelas quais o Brasil vem passando não deverão impactar os planos da empresa no país. "Temos uma estratégia de médio e longo prazo, acabamos de consolidar investimentos de grande porte e vamos continuar investindo normalmente, no país", resume. Lembra que "a John Deere tem 178 anos e, ao longo de sua história, acostumou-se a conviver com os altos e baixos das economias dos países em que atua. O Brasil continua sendo, na visão da John Deere, um país com futuro promissor, a médio e longo prazos. Destaca-se na produção mundial de alimentos, e precisa baixar seus custos de produção para se manter produtivo. Estamos diretamente ligados a isso, pois temos as máquinas que ajudam a melhorar a produtividade em alimentos e também para construir infraestrutura e reduzir custos de transporte e de geração de energia".

Como exemplo, Marques observa que os Estados Unidos, com território de 9,8 milhões de metros quadrados, possuem cerca de 4 milhões de quilômetros de rodovias, enquanto o Brasil, com 8,5 milhões de metros quadrados de território, possui apenas 200 mil quilômetros de estradas, ou seja, há ainda um enorme potencial a ser explorado. "Governos vêm e vão. Os países continuam. O Brasil é um país para se acreditar. Nós acreditamos no Brasil", finaliza o executivo.

Desde os primeiros dias era possível presenciar fechamentos de vendas pipocando aqui e ali, em muitos estandes por toda a feira. Cada fechamento de negócios era celebrado com entusiasmo, nos estandes: alguns tocavam música ou sons de fogos de artifício em volume alto, por exemplo, e afixavam cartazes informando que aqueles equipamentos já estavam vendidos. "Acreditamos que o cenário de expectativas de médio e longo prazo é auspicioso e, na medida que os rumos da nossa economia sejam corrigidos, estaremos retornando aos nossos patamares históricos", resume o presidente da Sobratema, Afonso Mamede.

## PDA na M&T Expo

A M&T Expo 2015 contou com a participação, pela primeira vez, da revista PDA, com estande sob a coordenação de Eduardo Kubric e com participação do editor para América do Sul, Luiz Carlos Beraldo.

"É nossa segunda participação em eventos de grande porte no Brasil. Estivemos presentes também na Concrete Show, no ano passado. E no próximo ano estaremos no Brasil com o nosso grande evento, o Fórum Latino-Americano de Corte de Concreto e Demolição 2015", afirma editor chefe da Revista PDA, Jan Hermansson.

# Attack from the New DEMOLITION Monsters

The demolition industry figured prominently at this year's Intermat. With the exception of Caterpillar and JCB that were conspicuously absent from the show, most other major excavator brands used the Parisian triennial to parade their latest machines.



Excavators command a towering presence at any construction fair. The beauty and the beast in one, they exude power and magnetism that draws adults and children alike. And demolition models with their sci-fi looking attachments are usually the biggest eye-catcher of all. Fortunately, there was no shortage of those at Intermat this year.

## Komatsu Extends High-Reach Demolition Range

Komatsu Europe International unveiled its latest addition to the demolition range - the PC490LC-10 high reach demolition excavator. Weighing 66 tons, the PC490LC-10 HRD is powered by a Komatsu 270kW EU Stage IIIB-compliant engine SAA6D125E-6A. With a maximum reach of 92 ft (28m), the machine can tackle heavy-duty demolition tasks with 5-ton attachments at a height of up to 57 ft (17.4m).

The model comes equipped with a new working range indication system, which shows in real time the position of the work tool and the inclination of the carrier machine. Featuring the function of tool recognition at start-up, the system has memory settings for 15 attachments.

The cab is built for heavy-duty demolition, with the front and roof windows featuring a special protective glass compliant with the EN356 Grade P5A standard. The front guard, side-hinged for easy window cleaning, complies with ISO10262 Level 2 falling object test requirements. The cab is mounted on a Komatsu tilting mechanism, with the tilt angle being infinitely adjustable between up to 30°. To further enhance safety, the machine is equipped with Komatsu's patented equipment management monitoring system, which continuously monitors every critical unit.



## Volvo's High-Reach Excavators

With the maximum pin height of 75.5 ft (23m) and 92 ft (28m) respectively, the latest EC380EHR and EC480EHR high reach demolition excavators are designed for the most demanding tasks. A frame-mounted falling object guard and safety windows ensure safe operation while rear and side-view cameras provide an all-around view.

Powered by Volvo Tier 4 Final/ Stage IV-compliant engines, the new excavators boast a heavy-duty, extendable undercarriage, which can be retracted for transportation and expanded for increased stability onsite.

Both machines are equipped with a variety of demolition-specific features to increase durability. A micromesh screen on the doors and engine cowl keeps out particles and boosts engine performance while full-length track-chain guards prevent sharp objects from lodging in the tracks. A guard protects the slewing ring bearing seal and grease piping from damage.

These machines can be equipped with a dust suppression system with an 8 gallon/min (30litre/min) hydraulic lifting pump, eliminating the need for a separate solution. Four nozzles, two on



each side of the arm, provide a fine mist. The system can also be used for cleaning the machine with the high-pressure water gun mounted behind the cab.

An attachment management system stores the settings for up to 20 different hydraulic attachments for ease of operation.

### Kobelco Goes Into Demolition Derby

Another Japanese company Kobelco debuted an excavator tailored to car dismantling applications. Originally designed to dismantle automobile chassis into recyclable parts, the new Kobelco SK210D can also be used on trucks, planes, agricultural machinery and white goods. Vehicles' smaller components, like strands of wiring harness, are removed by a



fully rotational multifunctional crusher. The driver operates the crusher using a proportionate control button on the joystick. To hold the vehicle firmly in place, the SK210D is equipped with Kobelco's innovative clamping arms with stripping and bending tools on top. The cab is fitted with a front and top window cage to ensure operational safety.

### Hitachi Premieres the First Zaxis-6 Model

Hitachi's centrepiece was the first model of Zaxis-6 mid-range excavator. The ZX300LC-6 features the new TRIAS II technology, which minimises the loss in the excavator's hydraulic circuit thanks to optimised pump flow control. An auto shutdown option prevents fuel wastage and reduces noise and emission levels. Along with the TRIAS II technology, a selective catalytic reduction system and an after-treatment device were built in to meet the stringent EU Stage IV emission regulations.





Due to an increased number of attachment modes, including rotary tilt and tilt, and two additional spools, the ZX300LC-6 is more versatile than its predecessors. It also boasts an improved OPG Level 2 front guard, which can be opened to 90° by one-touch operation. The undercarriage was reinforced with additional track guards, which provide better protection for track links. A spin-on type fuel filter, an electric fuel pump and a cold fuel resistance valve were added to improve the engine's longevity.

### Award-winning Demolition Control System from Liebherr

Recognized with a silver award at the pre-Intermat 2015, the Liebherr demolition control system ensures the stability of the carrier machine and allows the driver to control the position of the demolition tool at all times. Thanks to the angle sensors with an automatic

recognition of the attachment mounted on the excavator, the system informs the operator continuously about the position of the attachment by visualizing it in real time on a color display. To optimize the excavator's performances, an option of extended reach with limited rotation was added. This helps the user expand the working area while using smaller machines.

### Hidromek Strengthens Its Position in the Excavator Sector

Hidromek, based in Turkey, has been steadily consolidating its position in the excavator segment over the last few years. The company has launched an expansion project aimed at doubling production capacity of its excavator plant in Ankara. The new 10 million ft<sup>2</sup> (1 million m<sup>2</sup>) facility is expected to be operational this year. At the show Intermat, Hidromek premiered a new member of its GEN Series, the HMK 490LC HD crawler excavator. Weighing in at 50.8 tons, the machine comes as standard with a 260kW Isuzu engine, a 21.5 (6.55m) boom and 95 ft<sup>3</sup> (2.7m<sup>3</sup>) bucket.

The hydraulic pump's life and overall performances of the HMK490LC HD have been enhanced thanks to the two axial pistons and variable displacement hydraulic pumps from Kawasaki. The heavy-duty upper frame and the long undercarriage are designed to withstand extreme working conditions. The safety features include the head and front guards to protect the cab from falling materials and the undercarriage guards to protect the crawler. The ROPS and FOPS certified cab is equipped with the top, front and side guards. The standard rear view camera automatically turns on when the machine is on the move.





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# Mobile RECYCLING Equipment



## Evolution Step-by-Step

There was once a company with strict definitions in this field. Mobile meant wheels or crawler tracks; portable meant legs or skids. Both categories were of course transportable. In this case let us make it simple—if it can be moved with relative ease, manufacturers regard it as mobile.

There is no question mobility is the future. Instead of being dumped, demolition material can be processed on site. In the case of demolition of concrete, reinforcement steel is removed, and recycled as scrap. This leaves the concrete free to be processed by mobile units with crushers and screens. The aggregates produced, can be made to meet stringent demands and can in some cases be reused on the spot. If not, the recycled aggregates can be sold externally.

In any case, processing on site eliminates the costs for transporting, dumping, and stockpiling the material. However, to demolition contractors, the investment in mobile equipment of this kind is of interest only when larger amounts of material to be processed can be foreseen. So an investment is perhaps mostly a question for major demolition contractors. For demolition contractors handling smaller quantities of demolition concrete, the bucket based technology may be an alternative worth considering.

Players in the demolition field are in many cases influenced by design engineers, people finding new solutions to improve sustainability and developing things for the benefit of all. PDA reviews some of the major players in this field.

### DSB Innocrush

The Austrian company has developed Innodrive, a new drive for its range of mobile crushing and screening units. Innodrive eliminates the need for a coupling. Belt tension-

ing is hydraulically adapted so that the impactor can be in an on/off mode although the diesel engine is continuously running. The impactor therefore is driven by the friction between belt and pulley.

So far, the smallest unit, the Innocrush 30, has been furnished with this new drive. The experience from that installation indicates that the drive is simple, robust, and service-friendly. The horizontal shaft impactor with a 3 ft (1m) rotor diameter is driven directly by an 249 hp (186kW) Caterpillar diesel over V-belts. Belt tensioning is hydraulically controlled to safeguard the impactor, while the diesel is continuously running at maximum power and torque. This new drive is readily available for inspection and maintenance thanks to the removal of a protective grate. Replacement of V-belts is not time consuming. The 30-ton Innocrush 30 has a maximum capacity of 300 tons per hour, and is easily transportable.

At the Mawev 2015, DSB Innocrush exhibited a unit called Innocrush 35, and was pleased with the market response for the new clutch-free transmission.

### Hartl Crusher

Hartl is launching the Hartl HSP 3300 mobile, compact twin-deck screening unit. It has been exhibited at Mawev and at Intermat. The screening plant is based on a compact design and good screening efficiency with production up to 3,78 ft<sup>3</sup>/hour (90m<sup>3</sup>/hour).

According to Hartl's chief design engineer Georg Haberfellner, the main advantage lies in the screen box's electro-hydraulic drive, which provides more power than comparable electric drives, and is also more robust and durable. At the same time, with this drive system, the speed of the screen's rotation is continuously variable



and a reversed rotation is also possible. The screen box is spring-mounted, and provides the best power transfer for both screen decks.

The equipment can be used for the classification and refinement of recycled materials, as well as for the screening of natural stone. The screening unit is also ideal for use in road construction and earthworks, as well as forest road construction and excavations.

The screening unit is ideal for work together with Hartl's bucket crushers and bucket screens.

When fed by a bucket crusher, up to three fractions can be produced. Combined with bucket screen this can be increased to four.

Hartl also offers the appropriate conveyor belts to provide a discharge height of 8 ft (2.5m). The folding mechanism enables simple belt changing, and reduces transport dimensions to a minimum. The screening system, including conveyor belts, has an electrical power consumption of only 18.7 hp (14kW).

### Powerscreen

Powerscreen is part of the Terex Corporation that manufactures a broad range of equipment for various industries, including construction, infrastructure, manufacturing, shipping, transportation, refining, energy, utility, quarrying, and mining.

At this year's Intermat, Powerscreen exhibited its new-



est mobile screen, the Powerscreen Warrior 600. "We were excited to launch our new Warrior 600 screen," says Powerscreen brand leader Colin Clements. "We showed some of the machine's key features, including its compact size, which allows it to be transported in a shipping container and makes it easy to move between sites at minimal cost. This machine demonstrates how we can meet the needs of the recycling and aggregates segments."

The crawler-mounted Warrior 600 is the most recent addition to the Warrior mobile screening family. The most compact heavy-duty mobile screen makes the Warrior range the widest in the market with six machines of varying size. Ease of transport is one of many features on this new model. The Warrior 600 is versatile with its simple conversion to



obtain three or two fractions and takes place within minutes. The Warrior 600 also features a 7.8x3.9 ft (2.4x1.2m) screen box capable of 6G of acceleration. The high-strength, high amplitude, two-bearing screen box promotes easy handling and separation of large items from material fines in recycling tasks. User benefits include rapid set-up time and ease of operation aided by hydraulic folding side conveyors, rigid feed hopper sides, and two speed tracks.

**Rockster**

Kormann Rockster Recycler in Austria has launched the 28.6-ton crawler mounted impact crusher R900. The mobile unit is based on a fully hydraulic concept and

- The first hybrid crusher worldwide
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will produce a perfect cubic final grain. The unit can be used for the recycling of asphalt, concrete, and demolition debris, as well as crushing stone. The design of the impact crusher includes two hydraulically adjustable swing-beams, as well as variation of the rotor speed. This allows the final grain to be optimally influenced.

The drive system is located at the rear of the machine, enclosed in a sound-proofed housing. For maintenance and service purposes, the casing can be opened on all sides. The hydraulic pump for all auxiliary drives, as well as the pump for the hydrostat, is driven by a distributing gear unit. The hydrostat activates the crusher by a V-belt drive.

**Sandvik**

Sandvik recently introduced the QA441 mobile double screen unit, designed to match the needs of larger operators. The double screen technology utilizes two high-speed screens that operate independently of each other. The first screen removes fines, enabling the second screen to improve screening efficiency of the final material. The technology enables the screening unit to produce large volumes of fractions in accordance with strict specifications.

The QA441 is a highly productive 19.7x5 ft (6x1.5m) double deck screen, which incorporates a large feed hopper, two independently angled screen boxes, and extended product conveyors that offer massive stockpiling capabilities. All of this is carried on a durable chassis that is designed to withstand the rigours of recycling applications. Other models within this range of screens include the QA331, and QA451.

**Rubble Master**

Rubble Master has further developed its rental operation in cooperation with Buloc, their sales partner in Alsace-Lorraine and Franche-Comté. RM Compact Crushers are easy and intuitive to operate and ideal for rental business where the contractor renting the machines may need to crush 2,000 tons, which is required for a building site and they hire the crusher to do the job.

“They then hire it again one or two months later and this works really well,” says Buloc chief executive Thierry Venturini. “With the support of Rubble Master

RM machine rental, we’ve taken the concept one bit further.”

The key benefit of RM crushers in the rental business is usability. Thanks to the Go!-principle, the RM Compact Crushers are easy and intuitive to operate. Buloc is successful with after-sales service, sales and also RM machine rental. When the crisis reached its peak in France in 2008, construction machinery sales were sluggish. People were enthusiastic about product demonstrations, and potential customers found the quality convincing but the problem was financing. “I then began to develop my rental fleet with a lot of assistance from Rubble Master,” says Venturini.

RM supports its dealers when starting a rental service. “We have been using our successful rental fleet concept in Austria for a number of years. With this know-how we have also been supporting our sales partners, such as Buloc for some time now,” says RM founder and chief executive Gerald Hanisch. The rental model was exactly in line with the needs of customers in the regions served by Buloc. Construction companies do not want to build up large warehouses, especially in difficult economic times, and building material is purchased in the amounts required or produced just-in-time.

RM has been working on the development of technical solutions for mobile crushers. RM created a market for on-site recycling. The RM Go!-principle is another example of innovations from RM. Designed especially for newcomers to recycling, a color-coded guidance system emerged, which means the crushers can be operated intuitively and easily.

Lengthy and elaborate training, explanations or



adjustments are not required for the RM Go!-machines. This gives users the major benefit of earning revenue immediately with the RM Go!-models. “This means that all our customers have to do is just push the button to get started,” says Hanisch. “What is very practicable especially in the case of rental machines, even customers who have never operated a crusher produce valuable aggregate right from the start.”

With 115 employees, RM offers appropriate solutions for the mobile crushing of recycling material and natural stone for newcomers to the business, professionals and niche users. Rubble Master has 1,600 compact crushers in all continents. Exports account for roughly 90 percent of its business.

**SBM**

SBM has launched the mobile jaw crusher unit Jawmax 1006 ECO/MAXI. The newcomer series of SBM mineral processing combines the joint know-how of the brands SBM and MFL. The crawler-mounted jaw crusher unit now includes a screen. The new unit is ideal for crushing recycling material and rock. The unit promises optimised work processes and proven manufacturing quality to assure profitable and homogeneous final products in a single step.



The single-toggle jaw crusher type STE 100.60 ASV is the centrepiece of the plant. Two innovations improve safety. The overload protection system prevents uncrushable objects from damaging or blocking the crusher. The crushing gap is opened by the automatic gap adjustment, so the uncrushable object can safely leave the crusher and the moveable crusher jaw moves back to its pre-defined position. Additionally, direction of rotation and speed can be regulated automatically by the control.

At a capacity of up to 200 ton per hour STE 100.60 ASV masters feed sizes of 37x21.6 in (950x550mm), which can be processed to a final grain size of 0/2-0/7.8 in (0/50-0/200mm). Due to the improved pre-screening with conical vibrating grizzly bars, the material is separated before the crushing process has started.

As a first, SBM supplies a compact mobile jaw crusher plant plus screen to obtain homogeneous screening results in one step. The 8.2x3.9 ft (2.5mx1.2m) single-deck circular vibratory screening unit can be provided with various screen linings assuring oversized free final products suitable for immediate further processing.

Easy-to-handle transport dimensions and environmental friendliness complete the package of benefits. Its transport dimensions of 32.8x6.6x10.5ft (10x2.6x3.2m) and a total weight of 29.7 tons allow easy and transportation on standard flatbed trailers. The diesel-electric drive concept and the electric track drive score with improved efficiency and reduced oil consumption in comparison to hydraulic systems.

# US Recycling Characteristics Released at C&D World

More than 70% of the construction and demolition material generated in the US is recycled, according to Dr. Timothy Townsend of the University of Florida, speaking at C&D World 2015, the annual meeting of the Construction and Demolition Recycling Association. The area of landfill avoided by recycling this amount of C&D is annually equivalent to more than 440 acres (178 hectares) at a waste depth of 50 ft (15.25m).

Dr. Townsend also added that C&D (concrete, asphalt, wood, drywall, metals, asphalt shingles, and many other materials generated during road, bridge, and building projects) is created at a rate of nearly 480 million tons per year, making it the largest individual waste stream in the country.

Townsend's remarks were based on a C&D White Paper that his research team was commissioned to develop by the CDRA.

Earlier in the conference, the Portland

Cement Association's chief economist, Ed Sullivan, predicted that construction activity would increase 5.5 percent in 2015, including a 17 percent increase in new housing starts. He said that it might even be higher, but cautioned that even after the increase it was still relatively low because housing starts have been so low for so long.

But the C&D White Paper discussed on the last day of the meeting was a show highlight. The document provided data on the energy saving and greenhouse emissions avoidance, as a result of recycling C&D materials. The report, which is available to all members of the CDRA, states that C&D recycling industry is responsible for the direct support of 19,000 jobs, with the direct annual output of the industry to be approximately \$7.4 billion.

"This report proves the incredible value and importance of the C&D Recycling

Industry," said CDRA president Valerie Montecalvo, who is also president of Bayshore Recycling, Keasbey, N.J. "This shows that C&D is one of the largest material streams in the United States, and that recycling these materials provides tremendous economic and environmental benefits."

More in-depth information is available in the C&D White Paper, which was developed from the most extensive data collection ever gathered from C&D recyclers.

"On behalf of the CDRA Board, I want to thank all of the many companies that responded to the survey, which allowed us to put together this overarching look at the industry," said Montecalvo. "The amount of data gathered is going to allow the researchers at the University of Florida to provide more depth of understanding about our industry."

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



## Sandvik's New QA335 Doublescreen

Featuring the patented Doublescreen technology, the new QA335 mid-sized unit offers a highly efficient, versatile, and productive solution. Based around a 13x15 ft (4m x 1.5m) Doublescreen, the QA335 includes many class leading features for ease of operation and high efficiency. These include a user-friendly electrical control system with sequential start up, hydraulic screen separation to aid screen media changes, and a fuel-efficient 100 hp (74.5kW) engine. The QA335 has been designed with hydraulically operated wrap-around walkways to provide a safe working platform for service and maintenance. The QA335 also features radio control for ease of manoeuvrability, and an oil cooler fitted as standard. The Doublescreen technology is one of the most adaptable and flexible screening solutions available on the market. It consists of two high-velocity screen boxes featuring independent screen drives with the ability to adjust the working angle of each screen independently to each other to suit the application. This offers greater adjustability, increased accuracy and higher screening efficiency, which makes it ideal for producing tight specification products, without compromising on production.

### Features include:

- **Patented Doublescreen featuring two independent two deck screens, which perform two processes on one plant**
- **Versatile unit, capable of producing large volumes of high specification products**
- **Massive stockpiling capability through integrated hydraulic conveyors**
- **Efficient fuel economy and low operating costs**
- **Ease of operation with new color-coded control panel with sequential start-up**
- **Wide selection of optional extras to suit specific climate and customer needs**

### Technical Specifications QA335

First primary screen (in/mm)	
60x60/1,524x1,524	
Second screen (in/mm)	
96x60/2,439x1,524	
Engine hp/kW	107/74.5
Hopper capacity (ft <sup>3</sup> /m <sup>3</sup> )	197/5.6
Transport height (ft/m)	50/15.3
Working length (ft/m)	52/15.9
Estimated weight (t)	27



## Trailer-Mounted Dust Suppressor With Dedicated Power Source



In response to customer input from several different industries, Dust Control Technology (DCT) designed the DustBoss® DB-60 Fusion™, a powerful suppression system with an efficient diesel generator that can be hauled to job sites that lack a convenient power source. The innovation brings even greater versatility to one of the most popular and effective dust suppression designs on the market, able to deliver up to 62,800 ft<sup>2</sup> (5,834 m<sup>2</sup>) of coverage.

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WHERE EXPERIENCE COUNTS

# Efficient dust extractor for smaller grinders

The new Scan Dust 2900 (SD 2900) dust collector from Scanmaskin is a great option for all of the company's smaller grinders, including the Scanmaskin 18; and the Scan Combiflex 330, 450, 450NS, 500i, and 500PD.



The SD 2900 is a versatile and efficient dust collector with high reliability and performance. The unique cylindrical design functions as a pre-separator, causing heavy particulates to separate from the fine dust. The heavy particles immediately drop into the bottom of the cyclone, bypassing the filters completely, increasing filter life and suction performance.

The SD 2900 is equipped with Jet-Pulse, an efficient system that pulses the filters in order to keep them clean. The SD 2900 uses sock filters, which can easily be washed in order to prolong filter life. There is also a main filter option—a traditional cartridge filter that could be better when working on hardwood floors and similar surfaces. The

main filter cassette can easily be changed to fit the cartridge filters. In addition, the SD 2900 is equipped with four HEPA 13 filters.

The SD 2900 also takes advantage of the Longopac bagging system, which makes managing dust very easy and efficient. With the Longopac system, all dust is collected in a single heavy-duty plastic bag, which can easily be disposed with minimal dust contact.

### Technical Data

Motor (hp/kW)	3.8/2.8
Max. airflow per hour (ft <sup>3</sup> /m <sup>3</sup> )	14,832/420
Noise level (dB(A))	65 dB(A)
Weight (lb/kg)	66/30
Dimensions (in/mm)	22x31.5x51/560x800x1,300

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



# Lavina Vacuums from Superabrasive

Superabrasive's LAVINA® line of commercial vacuums includes a full range of models from the smallest V-16 vacuum, designed to work with edgers and smaller grinders, to the largest V-32 vacuum, suitable for work with the most powerful floor grinders. A wide range of power and airflow options allows operators to select a vacuum that is most appropriate for their machine(s) and workload.

Different voltage options are available to suit European, U.S., and other international power standards. The heavy duty and powerful V-32 vacuum features 2.0 hp and 7.2 hp (1.5kW and 5.4 kW) motors 19,423 ft<sup>3</sup>/h (550 m<sup>3</sup>/h) CFM, and 125 in (318 cm) water lift, making it ideal for use



with 31.5 in (800mm) and larger grinding machines. The V-32 has become the vacuum of choice for the toughest grinding projects. Its most notable feature, however, is its unique pneumatic jet filter cleaning system—a fully automatic, hands-free system that utilizes a compressor for continuous filter cleaning during use. This system is also available on the smaller V-25L model, which is ideal for use with 19.7 in and 25 in (500mm and 635mm) grinding and polishing machines.

The V-20 and V-25 vacuum models feature an upgraded manual cleaning brush system that allows operators to efficiently clean filters, also during use, with one quick turn of a handle. With efficiency at top priority, there is never a need to slow or halt workflow for filter cleaning.

Additional benefits of LAVINA® vacuums include large filters with surface areas up to 8m<sup>2</sup>, the popular and convenient Longopac® bagging system for easy dust disposal, 100% steel construction, anti-static hoses, and more.

The LAVINA® vacuum line also offers two vacuum pre-separator models, VS-25 and VS-32, which are especially useful on large projects where heavy grinding is performed.



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

## National Demolition Association Celebrates the Success of Demolition 2015

The US National Demolition Association (NDA)'s 42nd Annual Convention and Expo, Demolition 2015, provided four days of valuable connections within the demolition industry. More than 1,100 attendees and 84 exhibitors gathered in Nashville, Tennessee, to network, learn, and celebrate accomplishments in demolition. NDA underwent major changes in 2014 and the positive response to its first big event, Demolition 2015, has been overwhelming.

"It was great to see the turn out and support of the NDA membership at Demolition 2015," states new NDA Board President, Peter Banks. "Everything from the education session to the expansive Expo demonstrated the progress of the demolition industry and our contribution to the profession."

Demolition 2015 highlighted NDA's strong focus on industry education, which was reflected in the convention program. The education offerings provided an in-depth look at the demolition industry's most pressing topics including safety and health standards, environmental requirements and opportunities, workforce issues, and management and government project management. The new addition of Fast & Furious education sessions proved to be standing-room only events, compacting valuable lessons from industry thought leaders into 15 minute presentations that fit the pace of the convention. As always, the Expo at Demolition 2015 was a major draw for attendees. The Expo saw high traffic all three days it was open. Attendees were able to test new products and advancements in technology from companies such as Volvo Construction Equipment North America, All American Recycling, and Company Wrench.

With Demolition 2015 behind them, the NDA leadership team is focused on planning Demolition 2016 and continuing the success of the premier industry meeting.

"We were extremely excited about the success of Demolition 2015," said Cheryl Caulfield, NDA Executive Director. "We now look toward the future and identifying ways to make the Annual Convention even more valuable for our attendees."

Demolition 2016 will take place in Orlando, Florida, March 14-17, 2016.

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

## ABRECON Launches 1st Seminar on C&D Waste Recycling

The first National Seminar Waste Recycling Civil Construction and Demolition takes place on Thursday, September 17, at the Millennium Exhibition Centre (SECOVI) in São Paulo, Brazil. Promoted by the Brazilian Association for Waste Recycling Civil Construction and Demolition (ABRECON) and organized by Acqua MCI, the event will be a milestone for addressing the most relevant issues of the moment and to present new

data on the C&D recycling segment in Brazil.

The National Solid Waste Policy law (PNRS) and its consequences are promoting the proper management of waste at construction sites, and to significantly increase the use of recycled aggregate. It is estimated that from 2010 to 2014, the C&D recycling segment has grown approximately 400 percent in Brazil. According to ABRECON, more than 350 plants installed in the country are generating thousands of jobs, contributing to mitigate the environmental impact generated by the construction and preservation of natural resources.

The day-long seminar will be divided into four blocks: waste recycling panorama of C&D in Brazil and abroad; technologies and advances in recycling C&D; waste at the construction site and application of recycled aggregate; and the waste generator and the chain of responsibilities. On this occasion the ABRECON MAP plants geolocation system will be released, with the most relevant information to approach the waste generator market and aggregate consumer companies.

The leading authorities and references in Brazil and abroad will present and discuss the main issues afflicting the sector. They include Jason Haus, Vice President of the American Association of Recycling; Hewerton Bartoli, president of ABRECON; Leonardo Miranda and Elcio Careli, consultants and specialist teachers in management and recycling of construction waste; Hélcio Maia, president of the Association of Inert Landfill in Rio de Janeiro (ASSAERJ); Daniel Ohnuma, expert advisor on sustainable works; Sergio Angle, coordinator of the CB-18 ABNT committee on recycled aggregate standard; and Lilian Sarrouf, responsible for the Environment SINDUSCON-SP and coordinator of Sigor, the deployment waste management system in the state of Sao Paulo.

[acquacon.com.br/seminario/cd](http://acquacon.com.br/seminario/cd)



## Joy Global Acquires Montabert

Joy Global Inc., a worldwide leader in high-productivity mining solutions, has acquired Montabert S.A.S in France, which has been a part of Doosan Holding France S.A.S since 2007.

With 153 locations in six continents, Joy Global is a world-class service company that offers the most reliable and cost-effective equipment, systems and solutions for the

mining of copper, coal, iron ore, oil sands, gold, and other mineral resources. The business, listed on the New York Stock Exchange (NYSE: JOY), employs almost 16,000 people in 20 countries. In 2014, the company generated sales of \$3.8 billion.

The addition of Montabert Rock Breakers and Drifters to the world-class offerings of Joy Global is a real benefit for both companies. Montabert can continue to develop industry leading technologies and products with the support and operational excellence of Joy Global.

"We intend to continue working with our suppliers under the same conditions as before and we are sure that the introduction to the Joy Global group will present new opportunities for all of us," says Alexandre de Lagrevol, Montabert Supply Chain Director.

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

## HTC's efficient unit for hazardous dust like asbestos

HTC is launching the unique HTC 80 iDH, which fulfils market demands for a professional suction device for hazardous dust, such as asbestos.

The HTC 80 iDH has been developed based on a comprehensive concept for dealing with hazardous dust, such as asbestos. In addition to keeping the work environment dust-free, the dust extractor is also easier to clean and its functions have been adapted for workers moving around an environment in which hazardous materials are dealt with.

The machine includes a customised transport pallet (as option) that allows sealed transportation with a reduced risk of hazardous dust spreading. In addition to an H-14 filter (FN 1822), the entire machine has been certified by Germany's IFA test institute, thus ensuring it fulfils the requirements of the EN 60335-2-69/AA standard.

There are several customised functions for handling hazardous dust:

- Pressure monitoring system that signals when the airflow is insufficient
- HEPA 14 filter (FN 1822) filters more than 99% of the dust
- Diffuser on the air outlet to reduce the risk of swirling air/dust
- Extra safety bags protect the dust bags



- Smooth wheels that is easy to clean
- Sealed transport pallet including loading ramps is available as an optional extra

The HTC 80 iDH increases the safety of work with asbestos and other hazardous dust, and will initially be sold mainly on the French market.

"We now have a state of the art machine that lives up to all regulation and demands on the market and has been developed with the operator's safety and risk exposure in focus," says Thomas Forss, managing director HTC France.

[www.htc-floorsystems.com](http://www.htc-floorsystems.com)

## Ruwac WS2320-HD industrial vacuum

Ruwac has recently launched the WS2320-HD, a heavy duty intermittent duty vacuum that features 372,5mb (11Hg") of negative vacuum pressure -- the most powerful of its kind in the market -- and it doesn't give heavier materials a chance when it comes to cleaning up your work space.

Great for working with blast media such as glass bead and steel shot, the WS2320-HD encompasses high power suction, powerful filtration, and an easy foot-actuated dustpan disposal system that



will collectively provide you with a dependable and maintenance-free dust removal solution. Available with an outstanding 300 CFM, the WS2320-HD heavy duty vacuum includes a 240 Volt single phase motor. Its 2.6m<sup>2</sup> (28 ft<sup>2</sup>) micro clean filtration is industry-leading at 99.99% efficient at 0.5 microns, and nearly eliminates the possibility of premature clogging and costly filter changes. All of Ruwac micro clean filters are backed by a three-year guarantee, with optional HEPA or ULPA filtration available for air purification. The vacuum's modular housing is fully grounded and sealed for dust-free operation, and made from a dent and rust-free compression cast composite housing that is guaranteed for life. With its 111,77l/m- (9 gallon foot)-actuated dustpan, users have limited interaction with its contents and no messy spills to contend with.

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

  
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