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DURATIQ

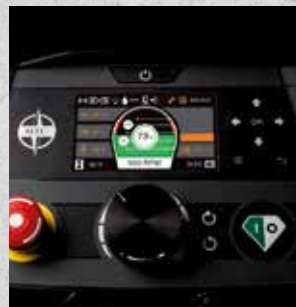
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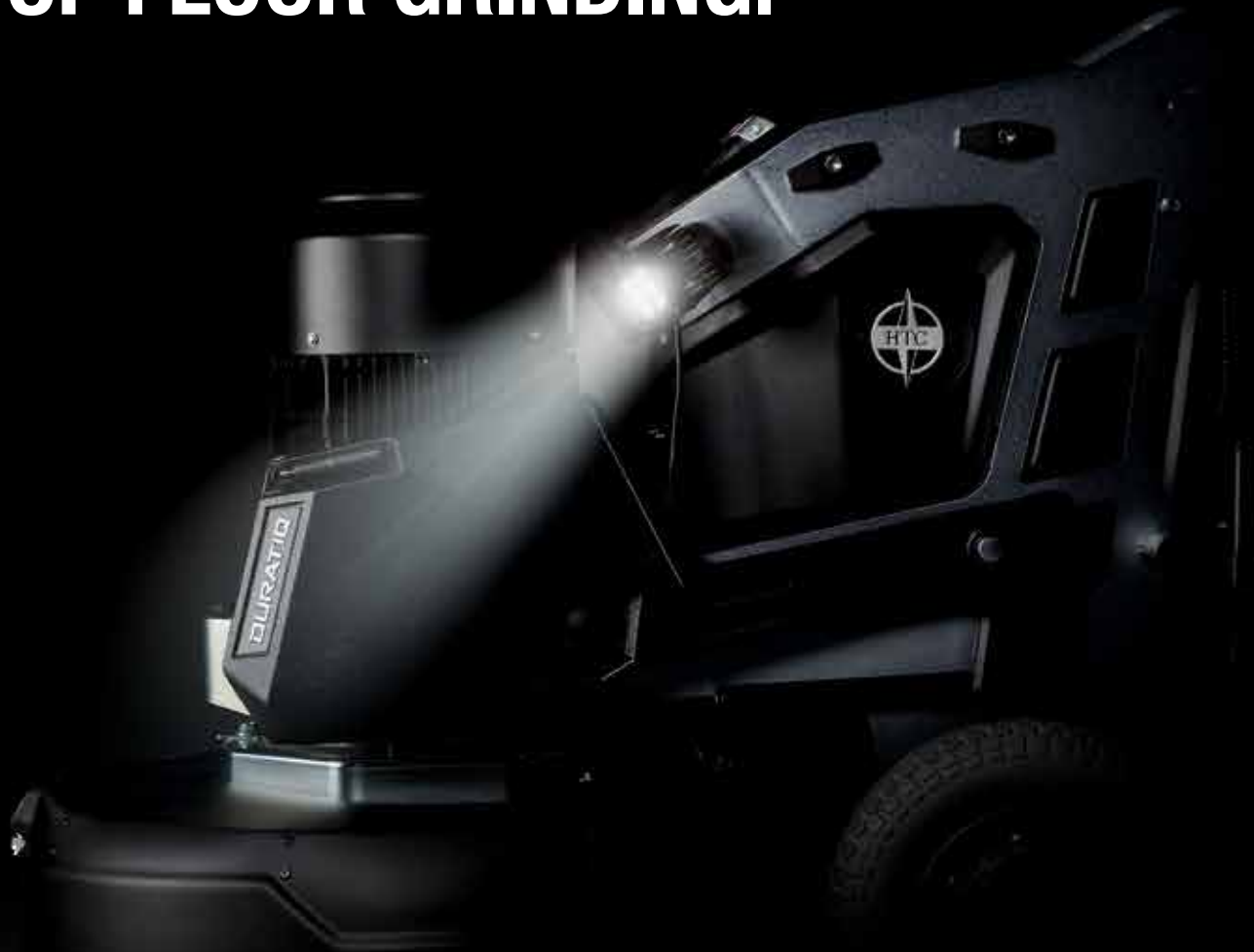
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The Waiting Is the Hardest Part

As this issue of PDa goes to press, the U.S. presidential election is lumbering to a conclusion that many feel can't come soon enough. It's sometimes hard to remember that it really wasn't so long ago that there were no rallies, no daily exchange of accusations, no "breaking news" about what someone had or had not done.

We at PDa do not presume to know just what course is best for the country—and the rest of the world, for that matter, given the importance of the job. Nor do we want our magazine to be a platform for talking politics; such topics tend to raise hackles, and gets in the way of more interesting and fun discussions.

What we do hope arrives with the morning of November 9, though, are relief that this inexorably long campaign is finally over, along with some certainty about what happens next.

Though in general, the U.S. economy is in pretty good shape, and groups like the Concrete Cutting Nutters regularly post images of members showing off their sawing and drilling prowess, there's also a sense that many project owners have been holding back, waiting like everyone else, for the election's outcome.

It's not a new phenomenon. Veteran industry participants and observers alike have seen similar quadrennial dry spells. And, the caution is understandable, at least to a point. Those with the assets and risk responsibility need to know what kind of business environment will be fostered by the incoming administration and Congress. Will there be major infrastructure funding programs? Will regulations be added, loosened, or redefined? Will there be new initiatives that offer new opportunities, or will certain markets find themselves undergoing a shake-out?

Given the sharp divisions among voters and legislators on certain issues, it's hardly surprising that many usually reliable revenue streams

for contractors appeared to be sidelined earlier than usual this time around, with the general perception being that a few votes here or there could dramatically alter the balance of power in Washington, DC. And on some issues that's true.

But other issues enjoy relatively universal agreement among leaders of all political stripes. All that differs is the approach to addressing them. Small wonder, then, that citizens get frustrated when seemingly simple questions are batted back and forth like badminton birdies, rather than getting resolved.

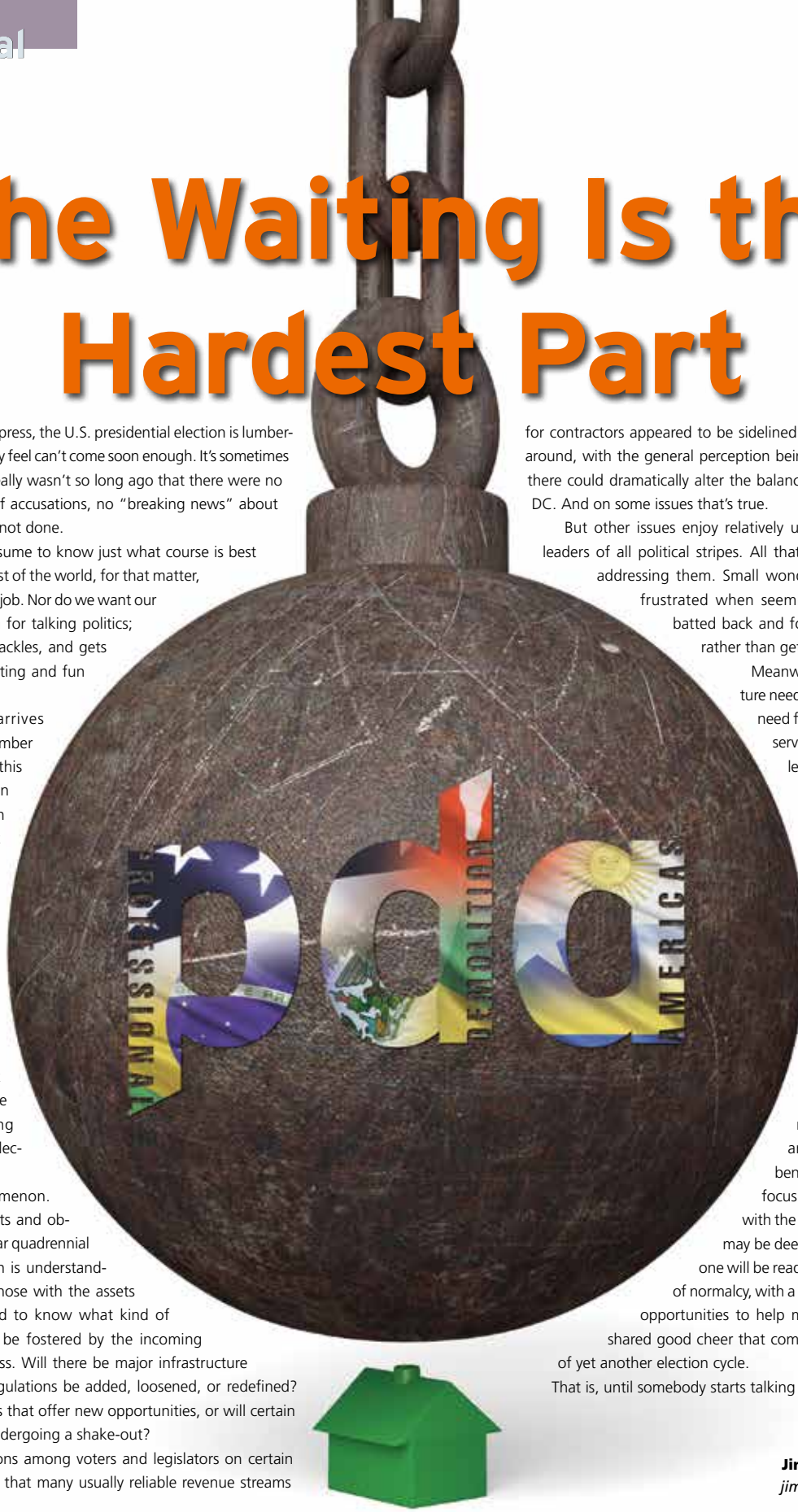
Meanwhile life goes on. Infrastructure needs work, commercial interests need facilities to deliver goods and services, students need places to learn. All that could be happening now, giving concrete contractors opportunities do business, and put their employees to work.

No, we have to wait, and see what happens next...and live with the frustration for another day.

So be it, then. We'll bide our time and try to keep the books balanced until the votes are counted, the winners named, and the landscape around the next proverbial bend in the road starts to take focus. Some of us may be thrilled with the outcome, others' frustration may be deepened. But hopefully, everyone will be ready to regain some semblance of normalcy, with a restored flow of projects and opportunities to help make that happen, and the shared good cheer that comes from the mutual survival of yet another election cycle.

That is, until somebody starts talking about the 2020 election.

Jim Parsons, Senior Editor
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Innovation Medal for Atlas Copco's RTEX Pneumatic Breaker

At the 2016 GaLaBau exhibition in Nuremberg, Germany, Atlas Copco's RTEX pneumatic breaker was one of 15 new or substantially redesigned products to receive the Innovation Medal from the Bundesverband Garten-, Landschafts- und Sportplatzbau e.V. (BGL). More than 120 products were entered for consideration. The RTEX received the prize for its novel design concept, which enables a 50% reduction in compressed air usage.

"In a conventional breaker air is discharged each time the acting piston moves up or down," explains Olof Östenson, RTEX project leader at Atlas Copco. "In the RTEX we discharge the air only once – on the piston's return stroke. Then the constant pressure from a chamber on the top of the



RTEX pushes the piston down. The pressure on top of the acting piston is constant and therefore does not generate vibrations as on conventional breakers, so there is no need for vibration damping."

The breaking force of the RTEX is equal to that of a 66-lb (30kg) breaker, though it weighs 25% less.

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Caterpillar Restructures R&D Organization

Peoria, Ill.-based Caterpillar, Inc., has announced the formation of a single research, technology and product development division to deliver high-quality product differentiation and system integration. Current Advanced Component & System Division (ACSD) Vice President Jean Savage will lead this newly formed group, which will team with employees previously assigned to the Product Development & Global Technology Division (PD>). The manufacturing functions within ACSD will be led by current ACSD Operations General Manager Steve Ferguson, who will report directly to Resource Industries Group President Denise Johnson and drive lean, cost-competitive component manufacturing operations.

Savage, who joined Caterpillar subsidiary Progress Rail Services (PRS) in 2002, has an extensive background in engineering and manufacturing with PRS, Caterpillar and in the industry for 14 years prior. She also spent nine years in the Army Reserves as a military intelligence officer. Savage has a Bachelor's degree in electrical and computer engineering from the University of Cincinnati, and a Master's degree in engineering management from the University of Dayton. Her proven leadership and background solidly position her to bring these two groups together as one new team focused on evolving Caterpillar's technology and product development.

The changes coincide with the retirement of 35-year company veteran Gwenne Henricks, who has led the company's R&D and technology strategies for the past four years as vice president with responsibility for the PD> Division.

Since joining Caterpillar in 1981, Henricks held numerous product development, management and business leadership positions with increasing responsibility before being named vice president with responsibility for the Electronics and Connected Worksite Division in 2007. She then became vice president with responsibility for the Industrial Power Systems Division before the Board of Directors named her to her most recent position in 2012.

Henricks has both a Bachelor's degree in physics and a Master's degree in electrical engineering from Bradley University, and a Master's degree in business administration from the University of Illinois. She also completed the Managing Engineering Design and Development Program at Carnegie Bosch Institute, Carnegie Mellon University.

www.cat.com

Dust Control Technology Names New President

Dust Control Technology (DCT) has named Laura Stiverson the company's new president, following a five-year stint as the company as General Manager. Her primary responsibilities will continue to revolve around new product engineering, business

development, and customer service. CEO Edwin Peterson calls Stiverson, "uniquely qualified in experience and temperament to lead the firm in exploring new markets, services and equipment designs."

Stiverson has been cited as instrumental in developing a number of the company's products, including the OdorBoss® family of machines, and the very successful new Fusion™ equipment design. "Laura has been taking us in new directions for some time," Peterson says. "And we felt it was appropriate that her energy and passion be formally recognized."

Incorporated in 2004, DCT has earned its reputation as a leading supplier of open-area dust suppression equipment. Its engineers continue to develop atomized mist technologies to bring new levels of effectiveness and versatility to dust and odor management.

"It's a natural pairing of mechanical and chemical technologies," Stiverson says. "We've demonstrated that the equipment design is far more effective than commonly-used approaches to odor control, and our goal now in expanding our line of additives is to combine product efficacy with the highest level of environmental stewardship."

Stiverson joined DCT in 2008. Her educational background, which includes an undergraduate degree in Biochemistry, has been a big asset in the company's work with odor-control chemistry. Currently the company's primary focus is on natural products that react on a molecular level with odor vapor, eliminating offensive smells with safe, biodegradable formulations.

"During the course of growing our dust control business, we have encountered a variety of opportunities to expand our scope," Stiverson adds. "These opportunities have largely been a result of repeated inquiries from businesses that had an unmet need within their industries. Over time, we have become more of a solutions provider, with the expertise to address a much wider range of applications. These new business segments are growing far beyond our initial expectations."

www.dustboss.com



Dust Control Technology has named Laura Stiverson as President after nearly five years as GM.



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The Husqvarna PG 820 RC remote control planetary grinder offers very high productivity, powerful performance, and outstanding ergonomics. The remote control is key on this machine. It enables the operator to move around the jobsite, correcting hosing, moving the dust collector, inspecting the floor, and preparing the next set of tools. This leads to increased productivity and less fatigue on the operator. The remote control unit can optimize the grinding parameters to assure quality for a specific application, enabling consistent operation and results even when changing operators. To learn more or to request a demo, visit www.husqvarnacp.com.

HUSQVARNA PG 820 RC

Power, kW (hp)	17.4 (13)
Voltage, V	380-480
Rated Current, A	32
Grinding width, in (mm)	32 (820)
Grinding pressure, lbs (kg)	664 (301)
UL & CSA approved	

Event Calendar

Bauma China 2016

November 22-25, 2016
Shanghai New International
Exhibition Center, Shanghai, China
www.bauma-china.com

Bc India 2016

December 12-15, 2016
Huda Ground
Gurgaon, Delhi, India
www.bcindia.com

World of Concrete 2017

January 17-20, 2017
Las Vegas Convention Center,
Las Vegas, USA
www.worldofconcrete.com

US Demolition Association Convention 2017

January 28-31, 2017
Las Vegas Mirage Hotel & Casino
Las Vegas, USA
demolitionassociation.com

Samoter 2017

February 22-25, 2017
Verona Exhibition Center,
Verona, Italy
www.samoter.com

CONEXPO-CON/AGG

March 7-11, 2017
Las Vegas Convention Center,
Las Vegas, USA
www.conexpoconagg.com

CSDA Convention & Tech Fair 2017

March 2017
Puerto Rico
www.cdda.com

Fabtech Mexico

May 2-4, 2017
Cintermex, Monterey, Mexico
mexico.fabtechexpo.com

M&T Peças e Serviços Brasil

June 7-9, 2017
São Paulo Exhibition Center,
São Paulo, Brazil
www.mtexpo.com

Construction Expo

June 7-9, 2017
São Paulo Exhibition Center,
São Paulo, Brazil
www.constructionexpo.com.br

U.S. Construction Equipment Exports Still Down at Midyear

Exports of U.S.-made construction equipment were down 24 percent overall at midyear 2016 compared to the first half of 2015, according to the Association of Equipment Manufacturers (AEM), with a total \$5.65 billion shipped to global markets. Citing U.S. Department of Commerce data, AEM found that Europe was the sole region with a gain — up 2 percent, while South America and Africa led the double-digit declines. Performance of key markets for U.S. construction equipment exports for January-June 2016 include:

- **Canada - \$2.4 billion (-23%)**
- **Europe - \$898 million (+2%)**
- **Central America - \$696 million (-7%)**
- **Asia - \$664 million (-28%)**
- **South America - \$504 million (-49%)**
- **Australia/Oceania - \$294 million (-30%)**
- **Africa - \$220 million (-43%)**

"For the past 14 quarters, U.S. exports of construction equipment have declined year over year and at the midpoint in 2016, that trend remains unchanged," says AEM's Benjamin Duyck, director of market intelligence. "With the global economic malaise, and the slowdown in emerging markets, and the negative interest rates in several economies' bond markets, investment is flowing to the U.S. and U.S. stocks, driving up demand for the U.S. dollar, inadvertently affecting our competitiveness abroad."

The top countries buying the most U.S.-made construction machinery during the first half of 2016 (by dollar volume) were:

1. **Canada - \$2.4 billion (-23%)**
2. **Mexico - \$561 million (-7%)**
3. **Australia - \$273 million (-29%)**
4. **Belgium - \$204 million (+39%)**
5. **Germany - \$148 million (+32%)**
6. **Peru - \$133 million (-31%)**
7. **China - \$122 million (-13%)**
8. **Japan - \$109 million (+24%)**
9. **Chile - \$108 million (-60%)**
10. **United Kingdom - \$100 million (-7%)**

Long-Term Increase, Short-Term Struggles in US Construction Employment

Thirty-six U.S. states added construction jobs between August 2015 and August 2016 while construction employment increased in only 24 states between July and August, according to analysis of Labor Department data released today by the Associated General Contractors of America (AGC). Association officials cite cooling demand for construction in some markets, though many firms report they would be expanding their headcount if they could find qualified workers to hire.

"The construction market has cooled off in recent months but continues to outperform the overall economy in most states, with solid year-over-year job gains," says Ken

Simonson, chief economist for the association. "Despite some slowing in public construction, apartments and manufacturing projects, contractors in many states say they would be hiring more employees if they could find enough qualified workers."

California added the most construction jobs (29,300 jobs, 4.0 percent) between August 2015 and August 2016. Other states adding a high number of new construction jobs for the past 12 months include Florida (22,000 jobs, 5.1 percent), Colorado (16,800 jobs, 11.3 percent) and Iowa (14,400 jobs, 18.7 percent). Iowa added the highest percentage of new construction jobs during the past year, followed by Hawaii (12.3 percent, 4,300 jobs), Colorado, and Idaho (9.2 percent, 3,500 jobs).

The District of Columbia and 13 states shed construction jobs over the year, with Kansas losing the most (-4,700 jobs, -7.7 percent). Other states that lost jobs for the year include Alabama (-3,500 jobs, -4.3 percent), North Dakota (-2,200 jobs, -6.5 percent), Montana (-1,900 jobs, -7.2 percent) and Kentucky (-1,900 jobs, -2.5 percent). Construction employment was unchanged for the year in Nebraska.

Michigan added the most construction jobs between July and August (2,600 jobs, 1.8 percent). Other states adding a high number of construction jobs for the month include Ohio (2,100 jobs, 1.0 percent), California (2,000 jobs, 0.3 percent), Tennessee (1,700 jobs, 1.4 percent), and Missouri (1,600 jobs, 1.4 percent). Wyoming added the highest percentage of construction jobs during the past month (2.4 percent, 500 jobs), followed by Michigan, Nevada (1.5 percent, 1,100 jobs), Missouri, and Tennessee.

Construction employment declined in 25 states and D.C. during the past month and held steady in Montana. New York shed more construction jobs than any other state (-4,600 jobs, -1.3 percent), followed by Georgia (-3,500 jobs, -1.9 percent), Maryland (-2,700 jobs, -1.7 percent), Arizona (-2,500 jobs, -1.8 percent), and Indiana (-2,300 jobs, -1.7 percent). Alaska lost the highest percentage of construction jobs between July and August (-4.1 percent, -700 jobs), followed by Connecticut (-2.8 percent, -1,600 jobs), Georgia, New Mexico (-1.8 percent, -800 jobs), Arkansas (-1.8 percent, -900 jobs), and Arizona.

Association officials said that even as slowing demand for certain types of construction projects, especially public sector projects, was slowing, firms in many parts of the country remain more worried about the lack of available workers than the lack of available work. They urged U.S. Senators to act on a House-passed measure that would boost funding for, and make needed reforms to, career and technical school programs to encourage and prepare more students to pursue high-paying careers in construction.

"Making it easier for school districts to set up programs that teach construction skills will encourage more students to pursue con-

struction careers," says AGC's CEO Stephen E. Sandherr.

Hilti continues to increase sales and profit

The Hilti Group remains set on growth: In the first eight months of the current financial year, sales were up +6.6 percent in local currencies. Operating result (+12.6%) and net income (+20.8%) were above the previous-year value as well. Group sales in Swiss Francs were up +7.3 percent year-on-year to reach CHF 3,049 million. Growth was reduced by the divestment of the US solar company Unirac in April. Excluding this effect, sales were up +7.8 percent in local currencies and +8.5 percent in Swiss Francs. "The positive sales curve shows that our Champion 2020 corporate strategy is bearing fruit. We succeeded in using the momentum in many regions and are satisfied with the current year," said CEO Christoph Loos when commenting on the intermediate figures. Overall, sales growth was positive in the company's market regions. In Europe, Hilti generated a solid sales increase of +7.3 percent in local currencies while North America posted continued double-digit growth thanks to high-level activity in the construction sector (+14.0% excl. Unirac). Eastern Europe / Middle East / Africa (+6.7%) and Asia/Pacific (+3.3%) also kept up the positive trend. However, Hilti was not immune to the economic and political uncertainties as well as the exchange rate fluctuations in Latin America, with sales declining by -5.7 percent year-on-year.

Thanks to productivity gains achieved mostly in procurement and production, return on sales (ROS) increased to 12.1 percent. Return on capital employed (ROCE) grew to 21.2 percent. Altogether, the operating result was up +12.6 percent to CHF 369 million, while net income grew by +20.8 percent to CHF 289 million. This drive helped finance continuing high levels of investments in strategic growth initiatives, additional sales resources as well as R&D without declines in profitability. Total headcount was up +6.2 percent to 24,190 employees over previous year. R&D spend was increased by +17.8 percent to CHF 179 million year-on-year. Commenting on full-year expectations, Christoph Loos said: "We are well on track and confident that we will continue our accelerated growth rate while maintaining our current level of profitability."

The Hilti Group supplies the worldwide construction industry with technologically leading products, systems and services that provide construction professionals with innovative solutions and superior added value. The Group employs more than 24,000 persons in over 120 countries who passionately create enthusiastic customers and build a better future. Hilti generated annual sales of CHF 4.4 billion in 2015. Hilti's corporate culture is based on integrity, teamwork, commitment and the courage to embrace change. The headquarters of the Hilti Group are located in Schaan, Liechtenstein.

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A Crushing

PDA's Jan Hermansson reviews some of the crushing equipment that was on display at the world's largest construction show, Bauma, earlier this year.



Atlas Copco's new BC bucket crushers

Atlas Copco presented its new BC bucket crushers, offering up to 80% higher output than previous models. Designed for carriers from 22t to 38t, they are available in two versions, BC 2500 and BC 3700, and have a circular crushing cycle capable of crushing up to 110t/hour. The new models are aimed at small demolition, recycling and road construction applications, as an alternative to a mobile jaw crusher.

The twin-drive system has two hydraulic motors and full load capacity can be used without blockage and slippage during start-up. An automatic anti-lock mechanism provides continuous repositioning of material, ensuring large pieces are guided automatically in the direction of the crushing jaw. If material jams, the reversing function allows the operator to change the rotation direction, pushing the material back into the inlet to remove the blockage. Users can adjust the jaw outlet without special tools.

All types of inert material can be crushed and re-used on-site or sold on using a rig-mounted BC bucket crusher. This requires only one operator to handle the demolition attachment and the bucket crusher.

www.atlascopco.com

New generation from MB

Italian manufacturer MB Crusher launched its third generation of crusher buckets, designed for all excavators. Thanks to a dust suppression system and reduced noise level, they can be used on sites in residential areas and in compliance with environmental regulations.

The MB buckets are claimed to be the only ones that do not need drainage. MB's crushing output exceeds 3,885 ft³/hour (110m³/hour), thanks to the exclusive power enhancer, which allows the crushing of materials, such as basalt and granite, in compliance with the high quality standards required for waste material reuse.

MB buckets are effective and eco-friendly in demolition, recycling, excavation, road works, quarries, mines and environmental remediation. MB Crusher is the only manufac-



turer offering a range of 18 buckets, crushers and screeners for excavators, loaders, skid steer loaders, and backhoes from 2.8t to 70t with a two-year warranty.

www.mbc crusher.com

Three new products from BAV Crushers

The UK manufacturer BAV Crushers introduced a new crusher bucket and new rotary screener. The BAV-CB crusher bucket is for reducing on-site rubble, bricks, blocks, concrete, and rock to a reusable aggregate. The BAV-RS rotary screening bucket has been developed for sorting material pre and post crushing and for cleaning of topsoil. BAV Crushers also launched a new BAV Alligator jaw pulverizer, designed for



g Bouquet



ripping up slabs, demolishing walls, cutting rebar, and primary crushing.

www.bavcrushers.co.uk

Japanese crushers on the go

UEDA is a big player in its domestic Japanese market with an extensive product range containing a large number of different attachments for demolition, crushing, screening, scrap handling, and pulverizing. The different attachments are divided into nine products groups of bucket crushers, combi magnets, concrete crushers, bucket shredders, clam screeners, steel cutters, clamp alligators, green alligators, and vibro slope buckets.

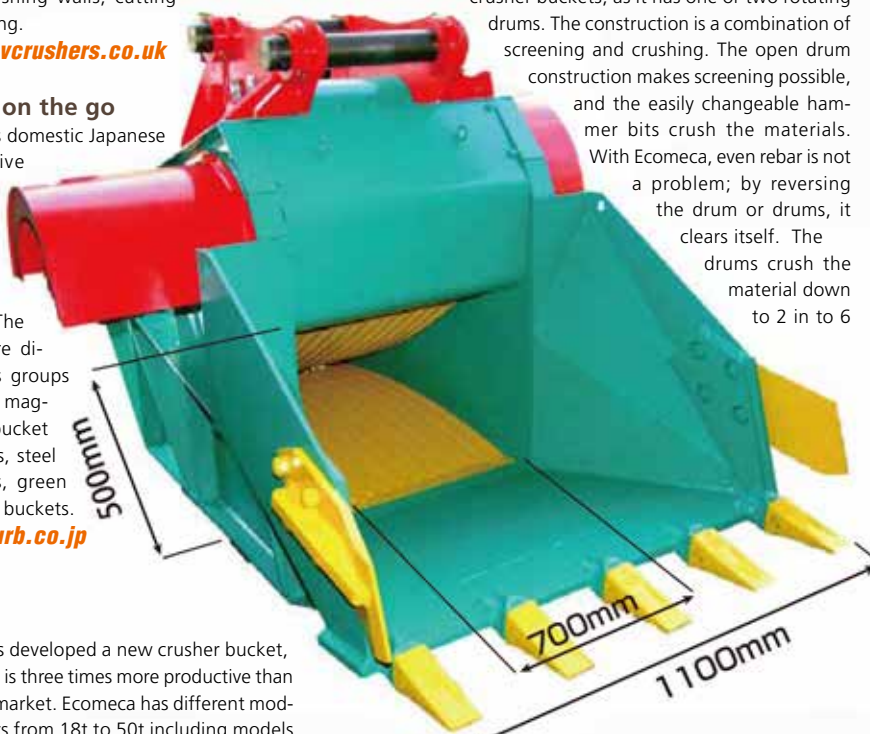
www.uedaturb.co.jp

Ecomeca crusher buckets

Ecomeca from Finland has developed a new crusher bucket, which the company claims is three times more productive than existing machines on the market. Ecomeca has different models available for excavators from 18t to 50t including models for use on wheel loaders. At Bauma the company showed the Ecomeca 145, which can be installed on 28t to 40t excavators. Several patents and patent applications in more than 40 countries support the concept Ecomeca has developed.

The Ecomeca crusher bucket is different from existing

crusher buckets, as it has one or two rotating drums. The construction is a combination of screening and crushing. The open drum construction makes screening possible, and the easily changeable hammer bits crush the materials. With Ecomeca, even rebar is not a problem; by reversing the drum or drums, it clears itself. The drums crush the material down to 2 in to 6



in (50mm to 150mm), depending on the setting. The Ecomeca technology allows crushing of dry, wet, and even sticky materials. The crusher incorporates a fail-safe hydraulic valve and an overload clutch to prevent breakage.

www.ecomeca.fi



Hartl bucket crushers

The Hartl bucket crusher from Austria stands out for highest throughput and good shape of produced end material. The Quattro movement of the jaw crusher is fitted with an up thrust toggle system. The main advantage with Hartl's products is the motion that cracks the material in the upper area of the crusher. This allows bigger blocks to be crushed in a downward direction into the chamber, compared with downthrust toggle jaw crushers. The special motion provides better throughput in the middle area, and a form of secondary crushing in the lower area. The result is excellent cubically shaped end material.

Finished products are tested for two hours on a test rig, where various operating parameters are checked prior to delivery to customers. In early 2015, Hartl launched the HSP3300 screen plant that fits in a 20ft (6m) container and is ready for work in an hour. It can be used in natural stone processing and recycling materials with three and four fractions.

www.hartl-crusher.com

New updates for Robi MM range

Robi has launched new cleaning combs for its screening buckets. Customers screening clay or similar sticky material have requested easily changeable combs. Robi has also launched a new MM154 HD model for pipeline and other heavy-duty applications. The gearboxes and axles are the same as on the MM154, but with a more robust frame.

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Rockster Continues Expansion Plans in South America



Rockster County Manager for South America, Perry Holt, holds a before and after demonstration of material reduced in just one pass by a Rockster crusher R700S.

The Austrian manufacturer Rockster Recycler continues its expansion plans through South America with the signing of Sanymaq, a Bogota, Colombia equipment sales and rental company specializing in both the rental and consignment markets. With 80 employees and an extensive network of sales representatives, Sanymaq has ventured into some very interesting recycling projects with the recent purchase of a Rockster R700S. "We will be relying on Austrian technology to venture into areas where no other Colombian company can compete," says Jose Saturnino Barajas, owner of Sanymaq. "There has been a new recycling law just signed in congress which requires all companies in Colombia to reuse and recycle skip and demolition waste."

Recycling of metallurgic coke with the R700S

One of the newer projects Sanymaq is working on is the emerging metallurgic coke recycling markets. There are many smelters and foundries that have never recycled before, and the new law is requiring them to recycle coke waste. By using at first a two-deck screen to separate the coke material combined with the Rockster machine as an oversize reducer, Sanymaq is able to get two grades of clean material which is required.

"Two grades of clean cubic material is what we were looking for, so we can sell the aggregate for road base material," says Barajas. The metallurgic plant gets the recuperated metal fraction which is also paid to Sanymaq a per tonnage price to reuse in their smelting process.

Duplex-system for crushing river stones

Rockster also has working another crushing plant in Colombia,

a R900/800 Duplex machine situated along the Pan-American highway supplying an asphalt plant.

"This project is currently recuperating river stone where the nearest quarry is 50km [31 miles] away, so the need for aggregate sourcing using large river stones is a viable solution," says Alejandro Valencia Executive Director for Sanymaq.

By using the patented Rockster system of two machines in one, first the jaw to reduce size and create a stock of material, then changing over with the same machine to an impactor to get cubic material, the complete supply of aggregate for the asphalt plant is covered.

"Many opportunities are opening up now that we have been working with the machine and it has been a learning process, both educating our clients as to recycling possibilities and convincing them to open up their doors to experimentation," Valencia says. "We are also exploring many other realms of recycling possibilities throughout Colombia, as things are just getting started here."

www.rockster.at



Rockster CEO Wolfgang Kormann and Sanymaq's Jose Saturnino Barajas on a demonstration tour through Austria.

Below, the Rockster impact crusher R700S crushing very hard metallurgic coke in Colombia.



Recycling With a "Can" Do Attitude

Few of us give much thought to popping a can of our favorite fizzy drink and tossing the remnants into a recycle bin. However, it's precisely what happens after the can hits the bin that Smelter Service Corporation is interested in. "If you buy an aluminum can today and turn it in to be recycled, it's going to be processed and back on the shelf in 60 days," says David Ray, operations leader at Smelter Service in Mount Pleasant, Tenn. The company receives scrap aluminum, generated from manufacturing waste, discarded materials, products and parts, and processes it back into usable alloys.

Ray adds that the company wants to be on the cutting edge of processing technology in order to get maximum recovery for customers, as well as optimum energy utilization for ourselves and the environment. Processing the thousands of tons of used aluminum is no small task, and integral to its success is the equipment used. For the better part of 20 years, the company has relied on Volvo Construction Equipment.

"Volvo machines perform very well," says Willie Green, the melting system leader for Smelter. "They hold up under the pressure and rough environment." Temperatures can reach up to 1,400° F (760° C). "We have to deal with furnaces and certain salt products, so you've got an atmosphere with plenty of heat and some corrosiveness from the salt," Ray adds. "The Volvo machines do great; they're sturdy and built for an industrial environment."

Smelter Service uses a fleet of seven Volvo machines. A Volvo EC220E 20t class crawler excavator breaks up the incoming material, making it easier to process. Powered by a Volvo D6 engine, the excavator delivers horsepower of 175 hp (129kW), optimizing fuel efficiency while reducing emissions. Five Volvo L70H wheel loaders move raw material from the staging area to the furnaces. In the almost non-stop working environment, each of the high-capacity loaders average approximately 5,000 hours each year. The L70H uses Volvo's patented T-P linkage, which keeps loads parallel throughout the lifting range, ensuring exceptional stability and unobstructed visibility. A Volvo MC135C skid steer loader is assigned to the loading dock to load and unload trucks. The single arm design delivers the loading performance and durability of a traditional two-arm machine, but with the advantages of side entry for superb visibility and safety. With more than 4,000 hours, the skid steer is a testament to Volvo's durability. In addition, the climate-controlled Volvo cabs offer a low-noise work environment, while ergonomically-positioned controls and clear all-round visibility ensure operator safety and productivity.

"The more comfortable the machine is, the better employees perform," says Green. "And the less stressed they are, the more work that gets done."



Smelter Service Corporation's David Ray.



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Husqvarna introduces the WSC 40, a remote-controlled unique chainsaw attachment for wall saws designed to cut precise corners as well as flush cut. The WSC 40 converts your wall saw from blade to chain sawing. It easily attaches to the wall saw for accurate sawing without overcutting and enables the operator to cut in a safer, more precise and ergonomic way.

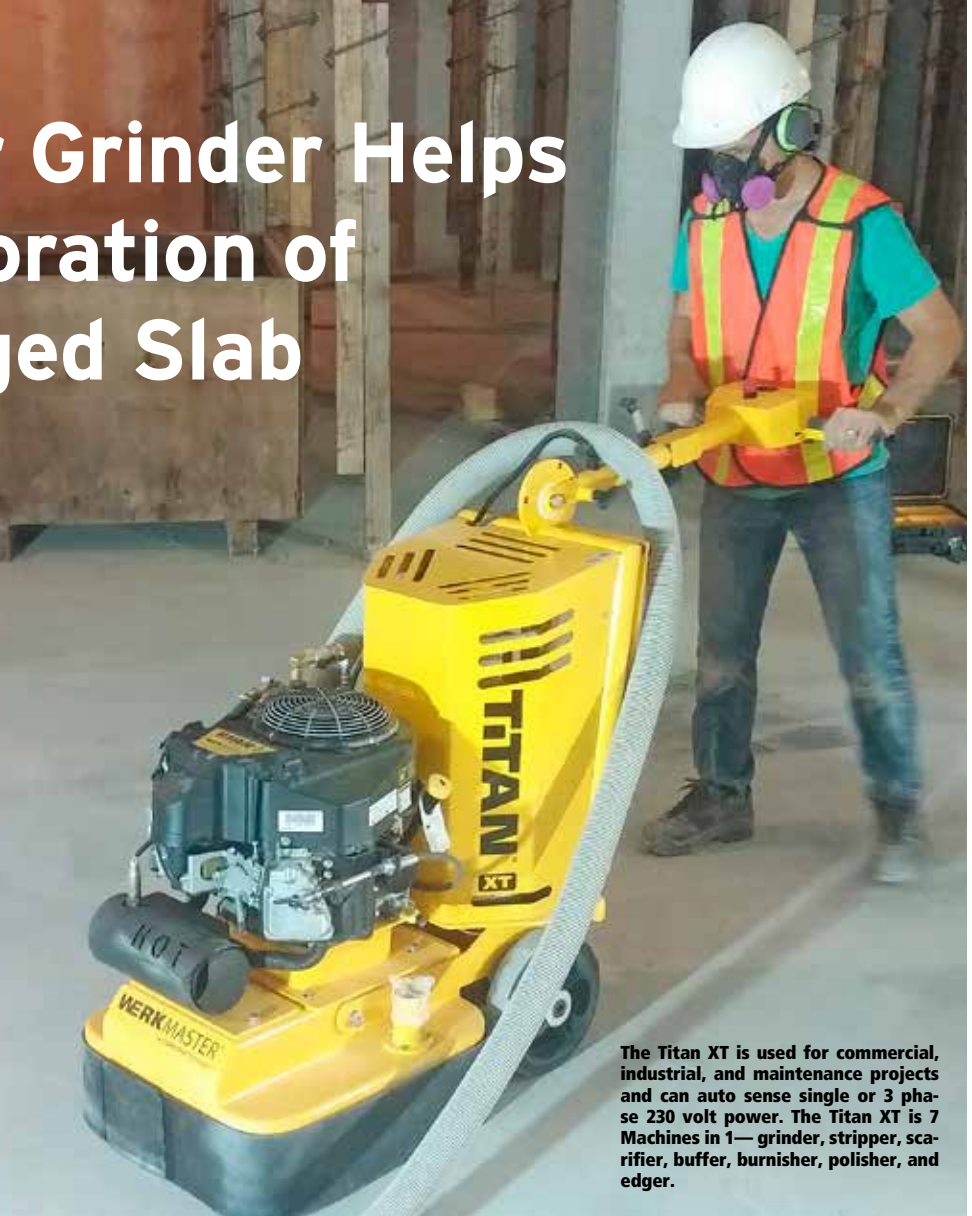
The WSC 40 is compatible with the Husqvarna WS 482 HF and WS 440 HF wall saws and cuts through reinforced concrete with precision.

To learn more or to request a demo call 800-845-1312.

HUSQVARNA WSC 40

Chain speed, ft/s (m/s)	92 (28)
Max cutting depth, in (mm)	16 (400)
Max straight cutting depth, in (mm)	12 (300)
Min cutting width, in (mm)	8 (200)
Weight (standard cutting, incl bar and chain, no guards), lbs (kg)	39 (17.8)

WerkMaster Grinder Helps Speed Restoration of Rain-Damaged Slab



The Titan XT is used for commercial, industrial, and maintenance projects and can auto sense single or 3 phase 230 volt power. The Titan XT is 7 Machines in 1— grinder, stripper, scarifier, buffer, burnisher, polisher, and edger.

High-rise construction in a city that has high levels of rain can present challenges to concrete contractors. This was the case earlier this year when Canadian contractor Beedie Construction went to pour and place their parkade at the Crown Tower in Coquitlam, British Columbia.

Though provisions were made to protect the slab as much as possible, heavy rain made its way into the parkade. As a result, 40,000 ft² (3,716m²) of concrete needed to be brought up to specification. Tight timelines required a one-step solution that would remove the latency left by the rain, and create a CSP 3 surface profile suitable to apply a resin coating.

The WerkMaster Titan XT Propane floor grinder was chosen because of its high rate of production and ability, plus the added benefit of expedited start up as no additional power was needed to run the machine. WerkMaster machines feature Octi-Disc™ Technology, eight direct driven heads that are configured to allow all models to get to within .125 in (3mm) of a wall. An Ermator S36 vacuum was used for the dust extraction.

The combination of technology and tooling allowed for effective removal, and a CSP3 equivalent profile for bonding new epoxy membrane. Preparation time also proved to be 2.5 times faster compared with a conventional grinder, with no need for shot blasting or further edge work. All tolled, the WerkMaster-based process yielded total cost savings of 40%.

www.werkmaster.com



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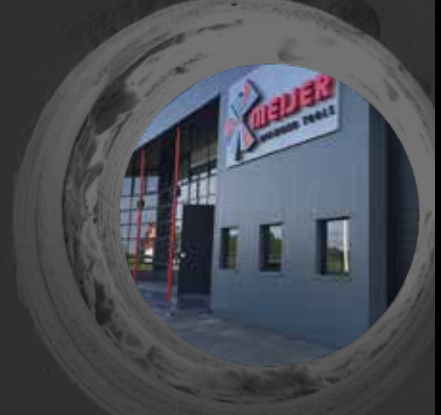
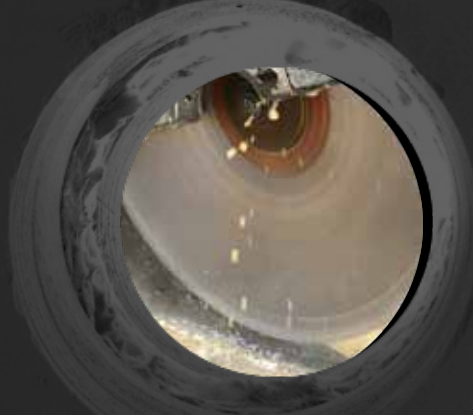
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SMOOTH O

Long a company “on the move,” Blastrac is burnishing its high standing in North America’s surface preparation market.



Blastrac NA President Mark Haworth.

Examine the equipment inventories of most U.S. concrete contractors, and you’ll likely find an international flavor. That’s because many of the most popular and widely available product lines in North America trace their lineage to Europe, where they were developed and refined before the manufacturers decided the time was right to distribute globally.

Blastrac took the opposite route toward becoming one of the world’s leading manufacturers of portable surface preparation technologies and equipment. The company’s roots are literally as American as they come—its forerunner company was called American Foundry Corporation, founded in 1906.

And while Blastrac’s global operations have been headquartered in The Netherlands since 2004, the North American subsidiary continues to build upon the longstanding direct connection to the trends and needs of its original U.S. market.

Given the mobility-related origins of Blastrac’s namesake shot blasting machines, it’s hardly surprising that the company’s pursuit of innovation has always had an element of wanderlust. American Foundry’s original portable centrifugal wheelblast technology, based upon the company’s 1930s-era static Wheelabrator process, was developed in the early 1970s to clean airport runways and remove non-skid material from aircraft carrier flight decks.

Because it was obvious that many other surfaces could also benefit from a process that was more efficient and cleaner compared with chemical stripping and open blasting techniques, Blastrac-branded machines debuted in 1978 for coating and flooring contractors.

After production moved to Europe in the 1980s, the ensuing decades saw the addition of new Blastrac machines, expanding beyond the original shot blasting systems for hor-

izontal and vertical surfaces to include scarifiers, walk-behind and ride-on scrapers, grinders, and heavy-duty dust collection systems. Other product lines—Diamatic, Diamag, and EBE—joined the Blastrac family as the company developed new market opportunities on other continents.

With the turn of the 21st Century, it was time for Blastrac to become its own independent organization, and solidify the company’s presence in North America with the Blastrac NA subsidiary.

Home again

Headquartered in Oklahoma City since 2006, Blastrac NA has established a nationwide network of retail/relocations in Greenville S.C.; Overland Park, Kan.; Anaheim, Calif.; plus a rental-only location in Tacoma, Wash. A strategically located team of sales representatives ensures that the majority of North America has ready access to Blastrac and its associated product lines. Blastrac NA’s sister company, ISP Canada, Ltd., operates retail/rental locations in Mississauga, Ontario, and Calgary, Alberta.

Blastrac NA President Mark Haworth touts the company’s extensive experience as one of its key advantages in staying abreast of industry and workplace trends.

“We have 13 employees with ten or more years of service,” says Haworth, a relative “newcomer” who joined the company in 2007 as Vice President/General Manager. “Some have been here as long as 27 years.”

Other key leaders of Blastrac NA include Vice President Celine Lambert, who also serves as General Manager for ISP Canada, Ltd.; Donna Wettlaufer, Operations Manager; Kevin Gardner, National Sales Manager; and Josh Jones, Transportation/Steel Market Manager.

Being part of a worldwide company, Blastrac NA has the ability to collect good ideas for surface preparation products and innovations from all over. But many of the features that appeal to surface preparation contractors originate in Oklahoma City with the five-person Engineering/Research department.

“We spend countless hours in the field with customers and machines looking for ways to improve and advance our products’ capabilities and allow for easier operation for the end user,” Haworth says. “We also conduct in-house studies, and look for new ways to improve the manufacturing process in order to create better-quality products. Some of the superior processes we’ve adopted include robotic welding, and water jet and laser cutting.”

Blastrac’s 55-product equipment line includes 12 different models of grinding and polishing machines, ranging in width from 7 in (180mm) to 80 in (780mm). All are built around the company’s patented three-head planetary belt-driven system, with some offering remote-control capabilities. The latest additions, introduced at World of Concrete 2016 in February, include the electric BMP-4000 heavy duty ride-on sawing and milling machine for large projects, and the battery-powered BMS-220ADB/LPG ride-on scrapers, which are suited for medium- and large-sized applications.

Because Blastrac products are being utilized in an ever-widening range of applications, Haworth says it’s difficult to identify a specific project that fully exhibits the machines’ capabilities. But he’s quick to add that the company regularly



**Vice President
Celine Lambert.**



**Donna Wettlaufer,
Operations Manager.**



**Kevin Gardner, National
Sales Manager.**



**Josh Jones, Transportation/
Steel Market Manager.**

OPERATORS



offers its expertise to help customers tackle challenging and unique projects, regardless of location.

For example, a Blastrac 900VMB vertical steel blaster was combined with a mobile crane to create a winch system for cleaning the rust-covered surface of a ship's hold. Despite the large amount of mill scale on the surface, the 900VMB achieved a clean profile, free of all oil, grease, dirt, rust, paint, and other foreign matter.

"The results were really satisfying and this new environmentally friendly blasting process has made history in the Marine Industry in North America," Haworth says. "We believe this will ultimately change the way ships are blasted."

Education is essential

While quality equipment can contribute to quality work, Blastrac NA understands that well-trained operators are what make the difference in surface preparation work, particularly since the industry remains relatively new compared with other construction and facility maintenance disciplines.

For that reason, the company offers one of the industry's most comprehensive programs of seminars,





workshops, and other training opportunities focused on surface preparation methods and equipment. At its core is Blastrac University, coordinated and taught by factory expert and Blastrac Global Training Director Jonn Rippman.

Combining classroom instruction with hands-on demonstrations, plus presentations from adjunct product manufacturers, Blastrac University classes are designed for contractors, coating specifiers, facility owners, architects, engineers, and others involved with application, specification, or use of coating.

Blastrac NA's experts regularly participate in other organization's events. At Mega Demo, presented by the North Texas Chapter of the International Concrete Repair Institute, area sales manager/central region Josh Martin spent the day demonstrating some of Blastrac's shot blasting, grinding and dust collector equipment used for surface preparation. Martin is also a regular speaker at Cass Polymers/Milmar Coatings Training Seminar, and Lowes' Demo Days.

As with other manufacturers of concrete-related construction and floor preparation products, Blastrac NA is working to help contractors prepare for next summer's implementation of the new federal standard for exposure to respirable crystalline

silica dust. Recognizing the advantage of capturing dust at the point it is made, Blastrac has readied its full line of dust collection systems that use HEPA filters and Longo Pacs, and can filter dust as small as .12 microns.

Another environmentally friendly tool is the Blastrac Premium Shroud, part of the dust containment system on hand grinders to help reduce airborne dust and particulates. The Premium Shrouds are easy to install, no tools required and are designed to fit 7-in (178mm), 15 amp grinders, with inserts to fit Blastrac, DeWalt, Milwaukee, Hitachi, and Metabo grinders.

When the 2017 edition of World of Concrete opens in a few months, Blastrac NA's traditional "front-and-center" exhibit at the entrance to the South Hall is sure to catch the eye of longtime customers and industry newcomers alike. There's no denying that the company's high-visibility location is advantageous in drawing visitors. But it's the quality and performance of its products that keep them coming back.

A New, Unique High-Precision Wall Saw Chain Attachment



Husqvarna has introduced a new and unique wall saw chain attachment designed to be combined with the company's WS 482 HF and WS 440 HF systems.

"WSC 40 makes it possible to cut precise corners without changing to a handheld cutter, which adds to the flexibility for the user," says Botilda Hellberg, Global Product Manager Construction Equipment, Husqvarna Construction Products.

The 40-lb (17.8 kg) WSC 40 offers indispensable precision when cutting in concrete and other building materials, with neat and accurate results. The wall saw chain attachment, complete with bar and chain, is also perfect for flush cutting close to the floor, ceiling or wall. Users don't have to switch to a handheld cutter, as is typically the case. Instead, they can keep working in a safer, more ergonomic way.

"Completing your arsenal of sawing systems with WSC 40 is essential if you want an all-round system that works efficiently and precisely on every type of job – small or big," says Hellberg.

The WS 40 has a maximum cutting depth of 15.7 in (400mm) and minimum cutting width of 7.8 in (200mm). Other benefits include easy handling and ergonomic operation with compact design that allows quick setup by simple replacement of blade flange on wall saw. The WS 40 uses the same track as the wall saw, working in two directions. Chain tensioning is easy with simple access, while shock protection. Prevents attachment and chain from damage.

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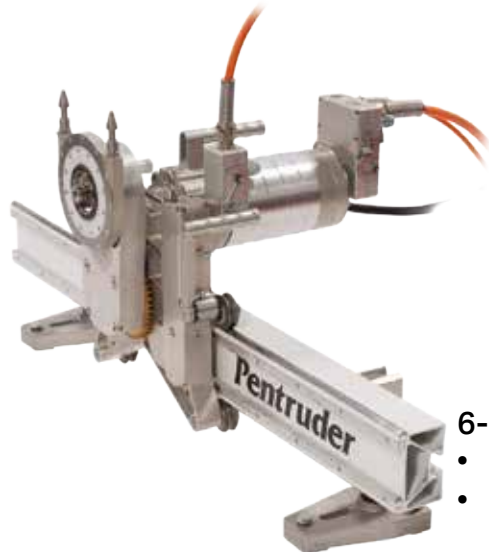
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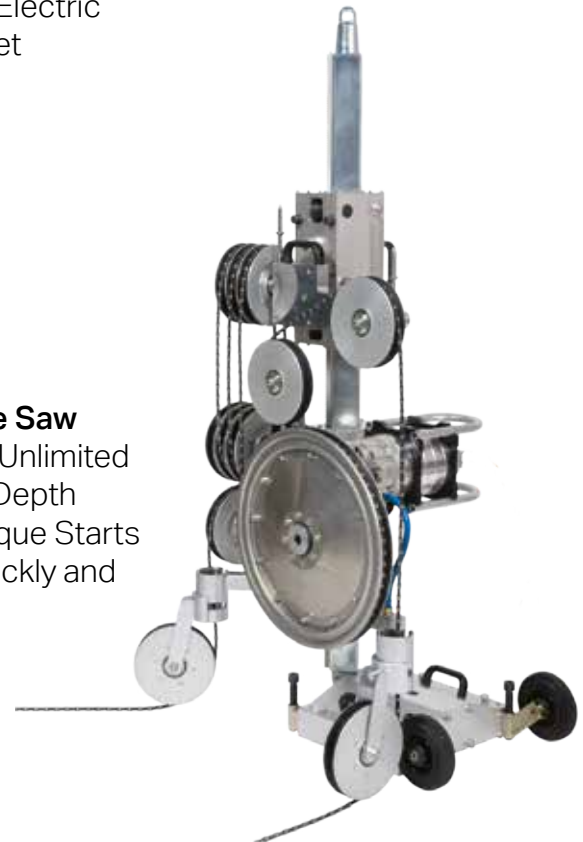
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HTC America Puts A New Spin on Grinding Technology...and Its Industry Presence with the New Series Duratiq.

A select group of 20 southeast U.S. concrete flooring contractors were treated to the mid-September public debut of HTC's new DURATIQ grinding machines at the company's U.S. headquarters in Knoxville, Tenn. Through a series of demonstrations conducted by HTC technicians, the contractors received an up-close look at many of DURATIQ's 100 new technical innovations, all of which are designed to advance the U.S.'s burgeoning polished concrete industry to new levels of productivity and quality.

In a way, the presentation also marked the unofficial debut of a "new" HTC America, following the parent company's 2013 acquisition of the now 29-year old company from Swedish founders Håkan and Gunn Thysel. While HTC has retained many of the characteristics that made it a worldwide leader in the floor grinding industry after pioneering the technology in the 1980s, the intervening three years have

yielded some key changes in the company's approach to its market. Vice President of Sales Eric Wickberg credits Polaris for instilling the leadership necessary to re-energize HTC's commitment to its products, from its cornerstone grinders and vacuums to the HTC Superfloor system.

"Our mission statement is "more happy floor owners,"" Wickberg says. "We want to help the contractors who purchase and use our products, but also the companies and clients that they serve. As such, we're creating a complete channel of service, commitment and convenience."

One person already impressed with how far the company has come, and where it wants to go, is HTC America President Jan Norlander, who joined the firm in August after leadership stints in several other industries.

"I didn't realize that such a small company could already be an industry leader," Norlander says, noting that HTC worldwide organization totals just over 165 employees. But while the floor grinding and polishing industry in North America has exploded in recent years, Norlander sees the market as "a little immature," and, thus, ripe for opportunity.

"We want to develop this market and reinforce our leadership," he says.

Raising both profile and presence

As HTC accelerates its product development efforts, Norlander will be responsible for executing the company's strategy to bring its products, support, and expertise closer to its customers. Much of that work is already underway.

While HTC America will remain based in Knoxville, the company is actively recruiting specialists to augment its existing 10-person sales



cent and Sturdy!



force, while also establishing several new regional warehouse and service centers. Norlander hopes to have a Northeast base ready in early 2017, to be followed by one in California.

"We're a knowledge company basically," he explains, "and with new service centers, we'll be better positioned to share that knowledge with our clients."

Getting closer to the customer is also the reason why 10-year HTC employee Richard Larsson has taken up residence in Knoxville. As HTC's point person for Latin America, Larsson says being based in the same hemisphere will be helpful for expanding the company's presence in economically emerging areas.

"We already have a strong presence in Chile and a few other countries," he says. "But many of them buy direct from the company, making it difficult to get backup and support."

Although many contractors in the region also rely on older concrete floor management technologies such as shot blasting, Larsson says there's a growing recognition that more economical and efficient ways should be explored. He also cites several promising markets for HTC's products and support, particularly Mexico and its rapidly expanding manufacturing sector.

Larsson plans to use the same strategy as his U.S.-focused counterparts to address those needs, adding representatives who will have the



luxury of covering smaller territories, providing more time to educate contractors about the benefits of grinding and polishing technology, and conduct training in the operation and maintenance of HTC equipment.



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"Giving our customers the best possible experience will give us a stronger foothold in return," he says.

A machine to build on

One might be hard-pressed to find a contractor who wouldn't have a positive experience with the DURATIQ, which Norlander says is the result of a three-year, \$5 million development effort that included more than 5,000 hours of pre-launch testing. Available in 24 in and 31.5 in (600mm and 800mm) grinding widths, the DURATIQ machines boast features such as hermetically sealed and dustproof grinding heads for maxing reliability; enhanced airflow technology and Mist Cooler System that increase productivity by more than 200%, and dust collection by 100%; and a compact chassis for maneuverability, handling, transport, and the all-important operator ergonomics.

A remote control unit is also available

When the DURATIQ's 1,000-service hour interval arrives, its modular structure and easy-to-replace high-wear parts won't keep it sidelined for long. Replacement of both belts can be completed in as little as 40 minutes, while additional equipment can be connected without having to open the electrical cabinet. But the centerpiece of DURATIQ—and indeed, HTC's America's position as an information resource for users and floor owners—is the machine's multi-function human-machine interface (HMI), which collects and displays valuable information monitor about grinding head speed, power consumption, usage patterns and trends, and even location via an optional GPS package. Such data is increasingly critical for contractors, says Ryan McBride, HTC America's Superfloor Business Development Manager, because good equipment does little good if it's not fully understood and used properly. And it's just contractors who need guidance.

"One of the things that have limited the growth of the polished concrete market is the owners' experience," McBride explains. "We've found that they're either happy or they're not. And too often, their dissatisfaction stems from unreasonable expectations about what they were getting—they expect polished concrete to be bullet-proof—and what it takes to maintain it."

Likewise, he adds, some contractors tend to blur the boundaries of the grinding, polishing, and maintenance



process, which add up to lower quality results. Those are issues McBride hopes to resolve by working with floor owners to develop HTC Superfloor specifications for their facilities. And the DURATIQ HMI is already providing a treasure trove of information for creating those specifications, and help contractors understand what makes a complete process.

"We're getting so much information from that HMI, that we've yet to determine its limits," McBride says, noting that the result will be improving accountability on both sides. "The owners can better manage their expectations, and the contractor will be better able to deliver them."

Time to get going...and grinding

The Knoxville demonstration was just the start of what figures to be a busy fall for HTC America, with another 24 presentations planned at locations across the country. Wickberg also promises a stepped-up presence for HTC at jobsites, trade shows, and any other setting where the company can display the power of its products, and its innovation.

"Expanding our footprint will require expanded visibility," he says, "and we plan to be very visible."

Norlander hopes the message of education, highly efficient machines, and happy floor owners resonates with contractors who want machines and tools that will help them deliver quality service, yet remain competitive.

"We're not selling on price," he says, noting the availability of less-expensive grinding and polishing equipment on the market. "We're selling on our value proposition."

Making that case may sometimes prove somewhat challenging in an environment where cost sometimes overrides other considerations. But with products like DURATIQ and the strong support of HTC's owners, it's one that Norlander and his team are eager to tackle. Happiness, after all, can be contagious. And if HTC America fulfills its mission of "happy floor owners," there'll no doubt be a lot of smiles in Knoxville.

As Norlander puts it, "It's fun to be a part of this."

www.htc-floorsystems.com



Chukar Waterjet Exhibiting at Rio Oil & Gas Expo and Conference

Chukar Waterjet, Inc., a leading manufacturer of deepwater subsea ultra-high pressure water jet equipment, is exhibiting at the Rio Oil & Gas Expo and Conference Oct. 24-27 at Riocentro in Rio de Janeiro. Chukar Waterjet is the only water jet manufacturer in the world that offers ultra-high pressure (UHP) water jet equipment capable of operating in the deepwater subsea environment. Chukar offers both standalone subsea waterjet systems and ROV-attachable systems.

Operable at depths up to 10,000 ft (3,000m), Chukar's subsea waterjet equipment has numerous applications for deepwater emergency response operations, salvage operations, and rapid de-mobilization operations. Chukar systems quickly blast away even the toughest coatings, including three-layer polypropylene (3LPP), and provide a safer, more effective method for cutting multi-string casings for well severance.

Waterjetting equipment also may be used to provide turbulence in a stream of methanol for hydrate remediation, an application Chukar developed in emergency response to the Gulf oil spill, when the company was asked to rapidly manufacture a system to clear a clogged containment system 1500 meters underwater.

Chukar's subsea water jet technology improves the safety and effectiveness of subsea operations, allowing operators to access new types of work and larger projects. Unlike conventional tools, waterjet cuts without heat, reducing the hazard of igniting trapped pockets of gas during cutting. Waterjet system tools cannot bind in the cut, jeopardizing asset integrity. Remote-controlled operational capabilities make Chukar's subsea waterjet system suitable for projects requiring diverless operations.



GSSI Announces New Ground Penetrating Radar System for Utility Location with Patented HyperStacking™ Technology



GSSI, the world's leading manufacturer of ground penetrating radar (GPR) equipment, announces the release of the UtilityScan HS, the newest product in its popular UtilityScan GPR system line. The UtilityScan line is the industry standard for efficiently identifying and marking the location and depth of subsurface utilities, including gas, sewer, and communication lines.

The newly released UtilityScan HS model incorporates the 350 HS antenna, a state-of-the-art digital antenna designed with features GSSI's patented HyperStacking™ technology, greatly improving the depth and data resolution performance over traditional real-time sampling (RTS) technologies.

By incorporating the 350 HS antenna, the UtilityScan HS deliver higher data resolution, better RF noise immunity, and better depth penetration than traditional GPR antennas. The 350 HS can reach depths of up to 40 ft (12m). The UtilityScan HS also provides advanced signal processing tools such as stacking, signal floor tracking and background removal.

Ideal for detection and mapping of utility pipes, as well as shallow engineering and environmental applications, the UtilityScan HS effortlessly integrates with GPS via an intuitive user interface. The UtilityScan HS allows for real-time data collection, with a back-up cursor

and cross-hair cursor that allow the user to accurately locate targets. Additionally, the new GPR system allows users to utilize multiple different techniques to calculate the depth of targets, for added flexibility.

The UtilityScan HS is purpose-built for utility detection with a range cart configurations to meet individual users' needs. All UtilityScan configurations deliver exceptionally high-quality data and are rugged enough to withstand years of field usage.

www.geophysical.com

Talbert's 55CC Provides Maximum Flexibility for Hauling Oversized Equipment

Talbert Manufacturing's 55CC close-coupled lowbed trailer features a low deck height, high capacity rating and a removable gooseneck, allowing safe and easy loading of oversized equipment, including excavators and dozers.



"Our 55CC is our most popular, best-in-class lowbed trailer," says Troy Geisler, Talbert Manufacturing vice president of sales and marketing. "This trailer's features maximize operator versatility, which makes it an ideal addition to virtually any equipment fleet. The innovative design continues to provide a durable, safe choice for equipment movers."

The trailer features Talbert's industry-leading 18-in (457mm) loaded deck height, and a 6-in (152mm) ground clearance for easy navigation of oversized loads under bridges and through tunnels without the need for rerouting.

The trailer's rear deck and bridge section feature the widest bucket well arrangement in the industry, allowing for maximum space to lower the excavator bucket and stick into. The recessed boom well's robust design coupled with the deck's low bucket well maximizes space for positioning the excavator's bucket and stick. The efficient design provides excavator transport with the lowest possible overall height.

The trailer's 26-ft (8m) deck has a capacity rating for half the deck length, allowing operators to haul 55 tons in 13 ft (4m). Most competitive models require distributing that weight across the entire length of the deck. Talbert's durable solution provides a significant advantage for concentrated loads, like excavators and loaders. Connections for a close-coupled, pin-on fourth axle provide further distribution of the payload, when required.

The 55CC features Talbert's innovative four-cylinder removable hydraulic gooseneck that maximizes lift capacity and load height. While most conventional trailers feature only two or three cylinders that run perpendicular to the deck, Talbert was the first in the industry to engineer the non-ground engaging hydraulic gooseneck with four cylinders that run parallel. In addition to stronger lifting capacity, this means Talbert trailers minimize the need for frequent load adjustments. The trailer's 108-inch (2.7m) swing radius allows haulers to distribute the weight from the drive axles to the steer axle of the tractor.

Talbert constructs its main beams and side beams utilizing a 12-in (305mm) deep I-beam fabricated from high strength T1 steel with a minimum yield strength of 100,000 psi. The 2-in (51mm) Apitong flooring provides high strength for long-term durability under heavy loads. Other standard features include removable outriggers, a manual exhaust valve, recessed load-bearing bolsters and a 12V LED sealed light system.

www.talbertmfg.com

Deep Drilling with the Pentrunder MD1 Core Drill

German concrete cutting specialists Jan Eckert Diamanttechnik is taking advantage of the Pentrunder modular concrete cutting system, using the Pentrunder HF-drive system and wall saw track for their heavy duty MD1



core drill. This versatile drilling system allows the operator to drill both large and deep holes with ease. The machine was recently put to test in a sewage plant where one 4.3 ft (1.3m) and one 3.6 ft (1.1m) diameter hole was to be drilled 15.7 in (400mm) deep for a new pipe. "It went better than many 300mm [12 in] holes," said company owner Jan Eckert. For another job, where 40 holes

12 in (300mm) in diameter and 26 ft (8m) deep were to be drilled, the system showed its abilities when another system was taking too long. With use of the stable and modular drill rig and the automatic feed, the holes were drilled in 4 hours, compared with two days using the other system. With the Pentrunder drill rig longer core bits could be used and the core did not have to be broken so often, which

saved a lot of time. For the first part of the hole, a 7.5 ft (2.3m) track and a 6.5 ft (2m) long drill bit were used. The track was extended with a 6.5 ft (2m) track so that a 10 ft (3m) long drill bit could be used. The automatic feed gave even pressure on the drill bit which was very important in the hard aggregate and made it possible to keep the diamond segments open.

www.pentrunder.com

Husqvarna PG 820 RC Giving Facelift to Formula One circuit in Germany

At the end of July a somewhat unusual surface preparation mission was completed at the Hockenheimring Formula One circuit in Baden-Württemberg, Germany. The Hockenheimring maintenance team needed a 53,819ft² (5,000m²) layer of thick lacquer that had accumulated over the decades, yet without

damaging the underlying pavement. What's more, the job had to be completed in time for the annual Grand Prix of Germany race, the track's signature event. After looking for a fast and effective solution for a long time, the team invested in the Husqvarna PG 820 RC floor grinder. German surface preparation specialist, Karl-Heinz Butz provided

support throughout the project, including full training. "The team was very eager to learn and the remote-control was really a big advantage when preparing an area as big as this one," says Butz. Despite the job's tremendous size, the team could work on the pavement for only a few hours each morning so that the track could be used for practice laps. "Therefore the machine had to be very effective and fast, and the PG 820 RC is both," Butz says. The job was completed in time and the customer

was very pleased with the result. The maintenance team will continue to use their PG 820 RC on the same areas in order to remove and replace different promotions that are painted on the ground. They will also use the machine for preparing the tracks. That way, they can adjust the track to fit different needs, creating suitable conditions for dragster racing as well as Formula One.



Surface preparation specialist Karl-Heinz Butz (left) giving instructions on how to operate the PG 820 RC floor



Thick lacquer layers needed to be removed around the circuit.

The job was finished in time for the annual Grand Prix of Germany Formula 1 event.

A Journey That Has Just Begun

The Swedish floor grinding and polishing equipment manufacturer Scanmaskin has been competing with larger rivals and in recent years gained market share at the international level.

That Swedish methods and products for demolition, concrete cutting, floor grinding and dust handling are doing well in the international competition is not new. Swedish methods have become something of a standard in many other countries.

A Perfect Combination

A Swedish manufacturer who had a brilliant performance during the past few years is the floor grinder manufacturer Scanmaskin, based in Lindome, south of Gothenburg. The company has a strong position on the Swedish and Finnish markets, and also established itself in the U.S. market, with a Seattle-area subsidiary headed by Josh Headings. The key to Scanmaskin's rapid development in the U.S. is the strong partnership with Jon Don, suppliers of various machines, tools, and equipment in the flooring, renovation and maintenance industries. Jon Don has 11 sales and service offices spread across the Americas. Scanmaskin's U.S. success depends not only on increased sales, but also on product development. A perfect combination so to speak. The company's products and tools are highly appreciated by contractors who appreciate Scanmaskin floor grinders for withstanding harsh environments.

"We have experienced and are experiencing a great expansion due to many different things," says Scanmaskin president Claes-Göran Bergstrand. "But basically, it is that our products have been readily adopted by customers. We have been quite

innovative in the last two years. Many new products have been launched and we have improved a lot technically."

For example, Scanmaskin has equipped several models with radio control, developed new smart floor grinders with its unique DSP system that makes it easier for the operator, launched two propane-powered grinders and launched new ranges of tools. Scanmaskin currently accounts for about two-thirds of the group's sales, or nearly \$9 million.. "The plan is to reach \$11 million in two years," says Claes-Göran Bergstrand. "Compare that with 2009, when our turnover was just under \$3 million."

Jon Don's dealership reach in the U.S. has been a big influence in increased sales. But Scanmaskin has a strong domestic market, which also includes Denmark, Finland and Norway. It also has good existing distributors in a number of European countries. This year Scanmaskin signed an agreement with the German diamond tool manufacturer, Heger Diamond Tools, which has a strong position in the German market. "We are seeking more dealers in Europe and other parts of the world," says Paulo Bergstrand. "For example, the Middle East has proved to be an increasingly attractive market," Scanmaskin currently has 30 dealers in as many countries.

Wide product range

Scanmaskin started working with machines and tools for prepar-



From left: Paulo Bergstrand, Henrik Cederholm, Mattias Snive, Thomas Vallmark, Eddie Abrahamsson, Anders Ryden, Markus Wennberg, Felix Rohdell, and Claes-Göran Bergstrand

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ing floor areas for different types of covering. They sold the filler material for epoxy or acrylic floors, products still sold via a sister company, Scanmineral. But with this background it was easy to expand operations to start working on concrete floor as a final product. That is to develop machines for floor preparation, or processing of concrete floors to the next step of polishing.

"This was not a transition for U.S., but rather an extension of what we already did," says Scanmaskin marketing and sales director Paulo Bergstrand.

Scanmaskin's European focus is mainly to sell machinery and equipment for harvesting of glue and polishing concrete floors. There, the market for polishing concrete floors is relatively small, but is increasing slightly each year. There big breakthrough in the U.S. for grinding and polishing of concrete floors has been a big success for Scanmaskin and others. Eight out of 10 of Scanmaskin machines go to the U.S. Still, the Swedish and Finnish markets continue to dominate Scanmaskin's sales.

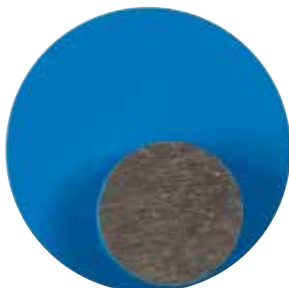
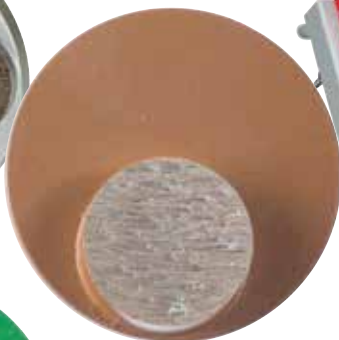
"We have in the past year had a better foothold in the rental industry, and currently supply to both large and small players," Claes-Göran Bergstrand says. "Some of the big rental names that buy equipment from U.S. are Ramirent, Lambertsson, The National Rental Team and Stավdal."

The products that are mainly purchased by rental com-

panies are Scanmaskin Scan Combi Flex 330, available in four different models, and the Scanmaskin 18, which was developed for sanding wooden floors, and is also used for grinding concrete floors. Other models popular among rental companies are SC500i / 500PD, SC650, SC700RC, and SC1000RC. Further models in Scanmaskin range are Scan Combiflex 450 Scan Combiflex 450NS, Scan Combiflex 500PD, Scan Combiflex 500i, Scan Combiflex 650 DSP, Scan Combiflex 650 Scan Combiflex 650 Propane, Scan Combiflex 700 RC (radio controlled), Scan Combiflex 800 Scan Combiflex 800 Propane, Scan Combiflex 800 DSP, Scan Combiflex 800RC, and Scan Combiflex 1000RC. Propane models are sold exclusively in the U.S.

The smart DPS system was launched in late 2015 and offers operators a detailed guidance for the selection of tools, information on documentation, troubleshooting, and more. It is available in two models, SC650DSP and SC800DSP. Scanmaskin offers radio control on the SC700RC, SC800RC, and SC1000RC. In addition to its range of grinding machines Scanmaskin has four dust collectors. The ScanDust 2800 has recently been upgraded and is now called ScanDust 2900.

Scanmaskin also develop tools for a variety of different applications, including demolition of concrete floors; grinding, pol-



ishing, and tools for steel surfaces; and impregnating for curing and surface protection. The company recently updated its tool series and launched the new Bauta, Single Roudon Crush, and Single Roundon Tiger, as well as two new PCD tools. There's also Scan Combifloor, Scanmaskin's system for grinding and polishing of concrete floors to a high gloss finish. The factory in Sweden has 23 employees, and builds about 1,500 machines per year.

"Since May of this year, we increased production by 20%," says Paulo Bergstrand. "The largest volumes are with the mid-sized machines, such as Scan Combiflex 650. We have noticed a clear increase even on the larger machines, such as the Scan Combiflex 700 RC and 800 RC with radio control. It is especially the Americans who are asking for these 800 models."

"We work with some different solutions in order to grow in our current premises," adds says Scanmaskin production manager Henrik Cederholm. "Today there is no problem, but if we continue to increase at the rate we do now, we will need more space."

www.scanmaskin.se



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GO SMALL, WORK BIG!

With Mini- And Compact Excavators

The size doesn't always, if ever, matter. Anyway not in this special feature about new mini and compact excavators.



At construction trade shows, it's usually the big equipment that gets all the attention. Size, after all, is associated with power, and it's the rare construction worker who hasn't dreamed of operating the biggest of big rigs since they started pushing things around with their first toy trucks (usually sand, dirt, or the annoyed family cat), to the accompaniment of their self-made sound effects. But with age and experience comes wisdom. Aspiring contractors can carry their giant dreams into adulthood, but they usually realize that the most practical tools may well be among the smallest, especially when dealing with constrained jobsites—long the norm in Europe, and increasingly common in North America and elsewhere. And if they take a close look at the equipment specs, such as those detailed in the following summary of new compact excavator offerings, they'll find that today's smaller-class equipment can hold its own in even the most rugged conditions. What's more, the machines are comfortable to operate, easy to maintain, and highly versatile. That adds up to cost-effective productivity, and opportunities to impress discriminating clients. So if you find yourself at the controls of one of the machines included in this report, don't be surprised if you recapture a bit of your childhood, reliving those days when no job was too big for you and your "big rig." You might even catch yourself making those "big rig" sound effects every so often. That's fine. Just be safe, and be productive.

JCB Offers New Model Next-Gen Compact Excavators

Building on the successful introduction of its next generation 6t-10t compact excavators in 2015, JCB recently released three additional models, with operating weights from 5t to 6.25t. In addition to the complete new 57C-1 model, the new 48Z-1 replaces the previous 8045Z, while the 55Z-1 takes over from the 8055ZTS/RTS; and a completely new 57C-1 model. All three excavators come with a Tier 4 Final, No DPF engine from JCB by Kohler. The engine produces 48hp (35.8kW) and 225Nm gross torque. JCB has also redesigned the pin pick-up points to be compatible with a variety of bucket brands, while optional hydraulic or manual quick hitches can be specified for faster attachment changes. The excavators feature a redesigned digging end, with a longer main boom and shorter dipper arm, to provide up to 5% greater dump height for easier truck and site dumper loading. The upgraded hydraulic system delivers up to 9% more bucket breakout force and 2% higher dipper arm breakout, boosting performance and productivity.

Other features of the new excavators include an improved operator's cab, with the 57C-1 using the same structure as the larger 11t machine. The cab is 18% more spacious and offers up to 11% more visibility, improving both comfort and site safety. Even in zero tailswing configurations, JCB's compact

excavators deliver impressive levels of comfort for the driver, with reduced noise and vibration levels and easily-replaced flat glass throughout.

Also from JCB, Contractor Spec Model for 8018 Compact Excavator

The JCB 8018 Contractor specification model provides utility contractors with a compact excavator specifically designed to work on busy urban job sites, reducing operating costs while enhancing safety and ease of operation. All excavator arm and undercarriage bushes are now equipped with graphite-impregnated bushes, delivering 500-hour greasing intervals to save time and maintenance costs. For increased safety on site, powerful LED work lights are now fitted to the front of the machine and to the boom, with additional protective guards to prevent damage.

The auxiliaries have been updated to an electrical operation. The conveniently positioned thumb-operated switch enables simple proportional control of the auxiliary flows, allowing for simple and controlled operation of specific attachments.

The machine comes standard with rubber street pads on the dozer blade to prevent damage to roadways while working. These can be easily removed without the use of any tools and stored safely in the cab's toolbox. The JCB 8018 Contractor specification can be ordered with a full operator's cab or canopy. In cab models, the lower door window glass is replaced with a steel panel to reduce the risk of damage on site. This is just one of the many design features that have been incorporated following extensive consultation with customers.

Kobelco Mini Excavators Mimic Their Larger Cousins

The all-new Series 6 mini excavators from Kobelco share many of the same technological innovations as some of the company's heavier machines. For example, the 1.5t SK28SR-6 and 2.5t SK35SR-6 feature Kobelco's Integrated Noise and Dust Reduction Cooling System (iNDR), which cuts noise by around 7dB over the previous models—an important consideration when operating on urban and residential jobsites. The iNDR system also reduces downtime and day-to-day maintenance by providing easy access to the air filter, which is mounted in front of the radiator. The SK35SR-6 has a 23-hp (17.1kW) engine, and bucket capacity of 3.8ft³ (.11m³). The SK55SR-6 has a 38-hp (28.3kW) engine, and 5.6ft³ (.16m³) bucket capacity.

New Electric Zero-Emission E10 Excavator from Bobcat

At Bauma 2016, Bobcat presented a fully functional prototype of the company's new E10 Electric model, a new zero-emission, electric powertrain version of the very successful 1t E10 mi-

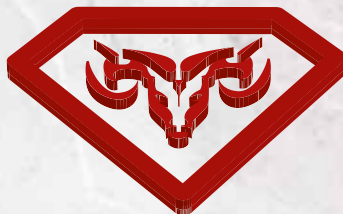


cro-excavator. Developed at the new Bobcat Innovation Centre in Dobris in the Czech Republic, in conjunction with electric vehicle specialists, the E10 Electric offers the factory installed option of an alternative all-electric powertrain allowing the machine to be used in areas requiring zero emissions such as interiors and basement construction work. Along with zero emissions, the E10 Electric also offers very low noise levels on site with an LpA of only 64dBA.

The alternative powertrain option in the E10 Electric comprises of a motor that can be powered both by a pack of rechargeable lithium-ion batteries, or a 400V mains electric supply via a plug-in power cable. The batteries can be recharged in less than an hour, the work independently for up to 3 hours. The new E10 Electric also offers the capability of carrying out work while charging via the mains power cable. The new E10 Electric has the same zero tailswing profile and identical external dimensions as the standard E10 machine, with the same or better performance. As the new machine is designed to be used in demanding indoor demolition applications, it is equipped with auxiliary lines and an efficient oil cooler system for continuous hydraulic breaker operation.

Bobcat Launches New E57W Stage IIIB Wheeled Excavator

Building on the success of the company's previous E55W model, Bobcat has launched the new E57W Stage IIIB-compliant wheeled excavator. The new E57W is equipped with the Bobcat 52.3-hp (42.5kW) D24 diesel engine that delivers a 4% increase in power along with 7% fuel savings. The Bobcat engine offers a distinctive solution to Stage IIIB compliance without the use of a diesel particulate filter (DPF). Along with reducing fuel consumption, this "non-DPF" solution simplifies machine operation and service, as there is no need for DPF regeneration. The E57W has an operating weight of 13,051 lb (5,920kg). It incorporates an updated hydraulic system delivering enhanced hydraulic per-



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formance, and a 10% improvement in lift capacity. A long arm option increases the machine digging depth to 12.4 ft (3.8m) and the dump height to 14.6 ft (4.5m). Peripheral equipment can be attached via two standard auxiliary circuits (a third is available as an option), and is operated with proportional controls. A newly designed cab and operator area features a 7-in (178mm) display that provides fingertip operation of all of the machine functions. The cab also has a heated seat, ergonomically placed controls and simple, efficient operating procedures that reduce driver fatigue. In addition, the ROPS certified cab offers excellent visibility, making the worksite a safer place for everyone.

CAT® 307E2 Mini Hydraulic Excavator Delivers Superior Performance and Comfort

The new Cat® 307E2 expands the mini hydraulic excavator machine range to include an additional solution for the seven to eight metric ton weight class. The 50.3-hp (37.7kW) Cat C2.4 turbo engine (U.S. EPA Tier 4 Final/EU Stage IIIB) and the High Definition Hydraulic System, which is load sensing and flow sharing, allows the machine to offer superior performance and overall operational effectiveness. The 307E2 offers maximum stability, reach, and lift capacity with its standard tail swing and fixed boom design. The cab delivers superior comfort with an air suspension seat, retractable seat belt, and COMPASS monitor with color display that allows the operator to quickly enable and modify a variety of machine features. Additionally the 100% pilot controls deliver excellent machine control with fine modulation while eliminating the need for linkage and cable maintenance, lowering owning and operating costs and resulting in less downtime. Secondary auxiliary lines come standard on the 307E2 along with a “thumb ready” stick. Track options include steel tracks or steel tracks with pads. The 307E2 also shares work tools with the 308E2 platform along with several new features. They include Power On Demand, which ensures full-time efficiency and power; Site Reference System, which aids with grading and level trenching; and the Rear View Camera, which decreases blind spots and aids in machine positioning.



congested job sites. For applications requiring added stability and lift capability, an available added counterweight extends overhang to 16 in (405 mm).

The operator’s station, designed for comfort, convenience, and safety, features a large air-suspension/heated seat, adjustable wrist rests, and ergonomic joysticks. The Cat COMPASS monitor includes a pass-code protected security system, adjustable auxiliary-flow control, site reference system, and rearview camera. The operator’s station is ROPS certified and incorporates the Cat interlock system, which prevents hydraulic functions when the safety bar is raised. Additional safety features include an automatic swing brake, retractable seatbelt, and travel alarm (optional in Europe).

The 308E2’s undercarriage can be fitted with a rubber belt, steel tracks, or steel tracks with rubber pads, ensuring the correct configuration for the applications in which the machine most frequently works. Available mechanical or hydraulic quick couplers expand the 308E2’s versatility with a range of Cat performance-matched work tools, and a thumb-ready stick is standard.

And Coming Soon From CAT®: M315F & M317F Compact Wheeled Excavators

The new Cat® M315F and M317F compact radius wheeled excavators make no compromise in power, performance, or stability, compared with their non-compact counterparts, and feature large working envelopes, high breakout forces, and high lifting capacities. Available in early 2017, the new compact radius models offer a wide range of configurations, including undercarriage options, stick lengths, and boom types to fit specific applications. The offset boom allows digging adjacent to walls and structures, grading while driving, and digging under existing utilities without damage. The variable adjustable boom, which offers optimum right-side visibility and balance,



is the best option for heavy lifting. Wide steering angles and optimum turning radius facilitate maneuvering and simplify repositioning the machine. Available joystick steering further eases maneuvering, allowing operators to keep both hands on the joysticks and continue working, even when moving the machine.

The M315F and M317F are designed as tool carriers, having all necessary systems to change attachments in seconds from the safety of the cab, including medium and high pressure auxiliary hydraulic lines, automated hydraulic Auto-Connect quick coupler, and a monitor based tool control system. The tool control interface allows programming the machines for up to ten different flow/pressure settings to accommodate a wide range of Cat work tools. Specific auxiliary functions are assigned on the joystick and foot pedal, allowing the operator to choose directly, through the monitor, which button and/or slider is preferred for a specific work tool.

New Variable Angle Boom Extends CAT 308E2’s Flexibility

The Cat® 308E2 mini hydraulic excavator is now available in a variable-angle-boom (VAB) configuration that provides an expanded working envelope and increased application flexibility. While providing a maximum dig depth of 169 in (4.3m), the VAB extends the 308E2’s maximum reach by 30 in (760mm) to a total of 306 in (7.78m). Dump clearance is extended by 56 in (1,410 mm) to 239 in (6.0m). In addition, the VAB allows the 308E2 to work closer to the blade and tracks, resulting in added lift capacity when working in confined areas. Using a 65-hp (48.5kW) Cat C3.3B engine and a load-sensing hydraulic system that delivers flows to 39.6 gal/m (150 L/min), the 308E2 features a compact-radius design that limits tail overhang when working over the side to 11 in (290 mm), ensuring efficient, safe operation in confined spaces and on



Hitachi Introduces ZX135US-5 SRF Excavator

Hitachi Construction Machinery displayed the ZX135US-5 short reach front (SRF) excavator at Bauma 2016. Developed in Japan, the ZX135US-5 SRF has been engineered to meet the specific needs of European owners and operators. The medium excavator offers an exceptional performance in confined spaces, with a variety of features focusing on productivity, durability, comfort and safety, and easy maintenance. More compact than a conventional excavator, the ZX135US-5 SRF is ideal for tunneling projects where space is limited. This is due to its short-tail swing radius, and short boom and arm. The ZX135US-5 SRF can be easily lowered into position on sites below ground level, using a crane. Lifting brackets are provided as standard on the boom

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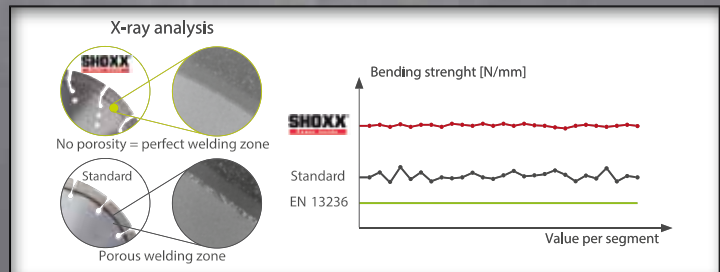
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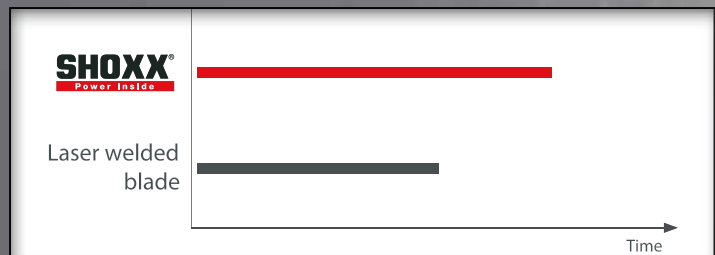


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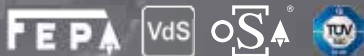
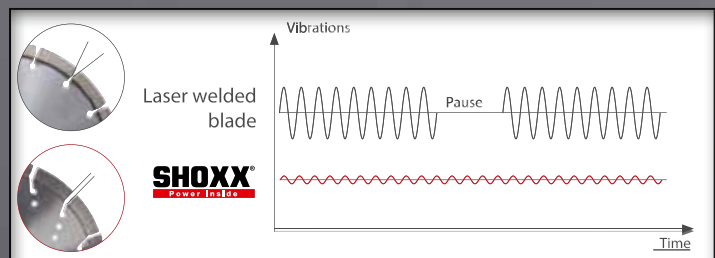
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and counterweight. It is also easy to transport, with an overall length of 17 ft (5.27m) and height of 9.6 ft (2.94m).

A short boom and arm, along reinforced bucket linkage, enables the ZX135US-5 SRF to be fitted with attachments that are suitable for larger 20-tonne machines, including crushers and breakers. This enhances the performance of the excavator for challenging sites. The durability of the front attachment has been enhanced to protect it from falling objects. Cylinders are located under the boom and arm, and an integrated cylinder guard on the arm protects the bucket cylinder. Piping is positioned on the left to protect it from debris and is also convenient to access in tight spaces. The high-spec ROPS pressurized cab offers exceptional comfort and safety during long shifts. Excellent all-round visibility with help from a rear-view camera, user-friendly controls, a large multifunctional LCD monitor, and expanded leg room contribute to a comfortable working environment for operators.

Ihimer Debuts New Mini-Excavator at Bauma

Bauma 2016 was the setting for the introduction of Ihimer's new 55N4, a new, traditionally sized mini-excavator. The 55N4 has an operating weight of 5.5t with rubber tracks (5.6t with steel tracks), and is powered by a quiet, fuel-efficient 63.8-hp (47.6kW) Yanmar engine. The 55N4 provides a bucket digging force of 8,160.5 lbf (3,630 daN), thanks in large part to its hydraulic system with variable capacity pumps. Front turning radius is 8 ft (2,420mm), while excavation depth can reach 12.6 ft (3,850mm) with the single arm, 13.4 ft (4,100mm) with the long arm.

New Doosan DX140W-5 and DX160W-5 Wheeled Excavators Offer Outstanding Class-leading Performance

Like all Doosan Stage IV compliant machines, the new 14t DX140W-5 and 16t DX160W-5 wheeled excavators feature a distinctive new machine styling scheme marking the many design advances they incorporate, which go well beyond simply meeting Stage IV emission regulations. Both new models have the same 6-cylinder Doosan engine and power outputs as the Stage IIIB machines, but have 5% more traction force, ensuring superior performance compared to both of the previous generation machines. Another important aspect of the new "-5" models is the "CabSus" cab suspension system, which reduces vibration and provides a 1dBA reduction in cab noise, further increasing safety and comfort for the operator. A new system allowing usage of the two-way lines either via the joystick or pedal provides an alternative to controlling attachments (like a shear or a breaker) solely via the joystick, which may become uncomfortable after several hours or following continuous repetition and thus increases operator comfort. It is also helpful when precision is required, as the operator can keep full control of the excavator via the joystick while using the two-way pedal for attachments.

New innovative and exclusive features have been introduced that reduce fuel consumption by an average of 10% compared to the previous generation models. They include the new "Trip Meter Setting" screen, which allows operators to check fuel consumption daily (or over a desired period) directly from the control panel. To save even more fuel, there is a special Doosan-developed Smart Power Control (SPC), which monitors both engine and pump power and limits unnecessary outputs depending on whether the work is light or heavy.

Hyundai Expands HX Series Excavator Product Line

Hyundai Construction Equipment Americas introduced two new models in its HX Series of Tier IV Final-compliant hydraulic excavators—the HX140L and HX235LCR. These two machines provide up to 10% better fuel economy and 5% increased productivity

versus previous models. The 14T HX140L excavator is powered by a Perkins 1204F engine rated at 116 hp (87kW). It achieves a maximum dig depth of just over 22 ft (6.7m), and maximum digging reach of 32.75 ft (9.98m), with a bucket digging force of 24,890 lbf (11,290 kgf). The HL140L excavator is equipped with a standard .76-yd³ (.58m³) capacity bucket.

The 24t HX235LCR excavator is a compact-radius model, featuring a Cummins QSB6.7 engine rated at 183 hp (136kW). Performance specs include a maximum digging depth of 22 ft (6.7m), maximum digging reach of 32.5 ft (9.91m), and bucket digging force of 37,104 lbf (16,830kgf). Bucket capacity is 1.05 yd³ (.80m³). Both new HX excavator models include as standard equipment an 8-in (20.3cm) interactive, adjustable, touchscreen cluster-monitor in the cab. The monitor in the HX140L model includes haptic remote control, providing easier operator accessibility and better ergonomics. The haptic remote control delivers reactive, tactile sensations using vibrations and pulses to guide the operator through menu selections.

Viewable on the monitor, which is standard equipment on both the HX140L and the HX235LCR, is the optional All-Around View Monitoring system that provides a 360° virtual operating view. Included is an Intelligent Moving Object Detection (IMOD) system senses and warns the operator when objects come near the machine. Hyundai HX series excavators feature large cabs with enhanced climate-control, more leg and foot space from the seat to the pedals, reduced in-cab sound level, heated operator's seat with standard air suspension and integrated console. Additional features include a Bluetooth audio system and Miracast wireless functionality for viewing a mobile device screen on the monitor.

Also from Hyundai, Tier 4 Final 9A Series Compact Excavators Come to North America

Hyundai Construction Equipment Americas recently began delivering its new 9A series of Tier 4 Final-compliant compact excavators throughout the U.S. and Canada. The R17Z-9A and R25Z-9A models are powered by Kubota engines, while the R35Z-9A, R55-9A, R60CR-9A, and R80CR-9A are powered by Yanmar engines. Both engines provide efficient fuel combustion and reduced noise.





The product line gives contractors a choice of models in each of six popular weight classes, from 1.7t to 8.2t.

The boom swing function on the 9A series compact excavators is designed for efficient work in congested areas. The boom can be offset left or right. Zero tailswing on the R17Z-9A, R25Z-9A, and R35Z-9A allows operators to work near buildings, in single lanes on roadways or in other confined settings. The variable undercarriage on the R17Z-9A, which can be adjusted to between 3.25 ft (990mm) and 4.25 ft (1,300mm) wide, allows the most compact machine in the line to work in even the tightest limited-space work environments.

Spacious, ergonomically designed cabs deliver reduced noise and increased comfort and visibility. A tilting left-side console makes it easier for the operator to enter and exit the cab, and the left and right control levers are located for convenient access. An adjustable suspension seat and plenty of space helps reduce operator stress and fatigue. The cabs on the Hyundai 9A series machines are all TOPS, ROPS and FOPS certified. Other safety features include optional boom and arm cylinder locks, and an optional overload alarm.

Wacker Neuson Excavators Ideally Equipped for Future Requirements

Wacker Neuson has augmented its excavator line with new models ranging from 6t to 10t. The EZ80 is the latest model of this series that is setting standards for precise and efficient work with features such as the Load Sensing hydraulic system for a simple and precise operation, a revised machine and cabin design for an ideal all-around visibility of the entire working area as well as very high digging forces. Good all-around visibility as well as a view of the track and attachment on both sides is indispensable for safe operation and quick working in the construction site sector. Due to the lateral offset of the boom as well as the strongly forward rounded valve hood, the new excavators meet these requirements perfectly.

Also new are the ET65 and ET90. The models' higher bucket torque and the enlarging of the bucket's angle of rotation to 200° make for more economical work. The load sensing system ensures that the work speed of all movements always remains constant. Up to five auxiliary control circuits are available with the new models: the fast, continuous setting of the individual circuits takes place via a "jog dial," an operating concept that is known from the automotive industry. Individual storage as well as settings of attachments can therefore be performed without any problems, even during operation.

The 5.2t EZ53 zero tailswing excavator can achieve an optimal excavation performance even in difficult to reach places, such as against house walls, because at no point does the rear of the EZ53 project over its undercarriage. Optionally outfitted with the Vertical Digging System (VDS), the revolving superstructure of the EZ53 can be continuously tilted up to 15°. This allows for vertical digging, even on sloped surfaces, and makes the machine even more flexible. The latest technologies ensure for a reduced fuel consumption with a simultaneous increase in engine and hydraulic performance. The turbo diesel engine with an output of 48.2 hp (36kW) as well as improved digging performance provide for higher materials handling. Thanks to the tiltable cabin and the side engine hood, the EZ53 provides convenient service access. Up to five auxiliary control circuits with a separate pressure-free return line make it possible to use a variety of attachments.

Kubota KX040-4 Features "Eco-Plus" Mode

Kubota's 4t KX040-4 packs superior performance, versatility and comfort into one compact machine. The KX040-4 features ECO PLUS, which allows the operator to prioritize productivity or fuel efficiency based on the task at hand. With this feature operators can select Standard Mode for increased power and productivity or Eco Mode can be activated with a flip of a switch for fuel savings of up to 9%. The KX040-4 has a 42.4hp (31kW) engine, a dumping height of 12.75 ft (3.9m), and a digging depth of 11.25 in (3.4m).

Volvo Adds Punch and Precision to 3t and 4t Compact Excavators

The new ECR35D, EC35D and ECR40D compact excavators from Volvo Construction Equipment feature comfortable cabs and advanced, easy-to-use controls for precise operation. Based on a proven design, the ECR35D and ECR40D short swing radius compact excavators are designed to work with power and precision in tight spaces. The more conventional EC35D, meanwhile, features similar architecture and delivers high levels of comfort, performances and versatility. Easy serviceability, versatility and greater efficiency all help the new models be more productive in a range of applications.

The EC35D combines a new D1.8A stage 3A Volvo engine with a hydraulic system that delivers high performance with smooth operation – allowing customers to do more for less in all applications. The intuitive fingertip controls allows ease of operation, enabling operators to enjoy the high digging and lifting forces, or operate powerful hydraulic attachments with ease.

Thanks to the short tailswing radius, and positioning of the boom cylinder on the left below the cab, the ECR35D and ECR40D excavators are ideal for tight working conditions and can be used on restricted jobsites, while reducing risk of damage to the machine and its surroundings. The swing post and cylinder stay within the tracks when in an offset position and the slew and offset movements are controlled simultaneously, for easy and fast positioning of the machine.

Each machine is available with an electronic system that enables operators to fine tune functions and settings through a keypad and monitor. Up to three profiles can be saved in the system, adjusting machine behavior to suit application/operator preferences. The system also includes:

To maximize uptime, these new compact excavators are designed to provide a low total cost of ownership, thanks to a combination of a number of efficient features. Wide-opening hoods allow good access to the filling points and daily checks, while at the rear the fuel and hydraulic filler pipes are well protected. The hydraulic oil check and fill is made through a transparent bowl, which allows early detection of contamination and acts as a filter when the tank is topped up.

All filters are installed in-line for easy maintenance and service check points are accessible from ground level. Greasing intervals have been extended to 50 hours, minimizing daily maintenance.

Terex Introduces Four "Rental-Ready" Compact Excavator Models in North America

Terex now offers the right compact excavator solution for all equipment and performance requirements in North America with four 'rental-ready' models. They include the Terex® TC16-2, TC22-2, TC35-2, and TC35R-2 models. Performance test results show that the new models offer up to 20% more work performance on average, compared with other models available in the market. The new Terex compact excavators are equipped with LUDV hydraulics (load-independent flow distribution), the technology offered in very few models in this size class. The LUDV enables power to be transferred to the attachment the operator is using as needed. Even when working with hard soils, the bucket offers outstanding ground penetration. Its conventional design ensures that the machine remains stable even on rough terrains.

For the precise control of attachment tools such as hammers or cutters, the second auxiliary circuit is operated with electrically proportional control, a standard feature offered on the Terex TC22-2 and larger models, optional in the TC16-2 model. An extra-large diesel fuel tank on the TC35-2 and TC35-2R models enables many hours of uninterrupted work. The new Terex TC35-2R model also incorporates a short-tail design, allowing for excavation adjacent to walls and other obstacles. The combination of intuitive control and safe working environment makes these new Terex machines user-friendly. Thanks to specific design features Terex has incorporated into

feature

its compact excavators, the risk of damage to the machine during operation is reduced. For instance, the top-mounted cylinder cannot be damaged when loading onto a truck, as the cylinder doesn't come into contact with the loading edge.

In addition, the Knickmatik™ cylinder is prevented from being damaged due to its position on the left. This allows the boom to swing to both sides at full digging depth. The automatic swing brake enables locking of the upper carriage so it cannot be forgotten during transport. The machine is controlled with Terex Fingertip Control, providing additional control for work attachments, including buckets, grabs, hydraulic hammers, cutting wheels, and augers.

All models are equipped with pilot-operated controls that provide both easy operation and changeable control patterns to best suit the operator's preference. And, the blade lever offers an integrated travel speed controller hence making it easy to level and dig.

Tier 4 Final Terex TC85 Compact Excavator Now Available in North America

The new Terex® TC85 compact crawler excavator is built for demanding excavation jobs and space-restrictive trenching work, featuring the perfect combination of a short radius tail-swing and a Knickmatic® boom offset that allows operators to dig alongside the machine's own tracks. Weighing 18,080 lb (8,200kg), the TC85 excavator boasts bucket capacities from 3.1 ft3 to 10.8 ft3 (87L to 305L), a dig depth of nearly 15ft (4.52m), a bucket digging force of 11,960 lbf (53,200Nm) and a reach of 25.3 ft (7.72m). Track options include rubber (standard), steel, and steel with rubber pads.

Featuring a Tier 4 Final 75-hp (55.4kW)

2.9L Deutz diesel engine with 221 lbf (299Nm) of torque at 1,600 rpm, the new TC85 excavator meets emissions requirements through a diesel oxidation catalyst (DOC) that serves the function of a catalytic converter. This translates to a reduced maintenance exhaust system as there is no need for regeneration or to inject diesel exhaust fluid (DEF). Auto engine stop comes standard on this excavator, which helps operators realize fuel savings. Additional fuel savings can be achieved through the optional auto engine idle feature.

The TC85 can work closely alongside walls and other existing infrastructure thanks to its Knickmatic boom with an articulation angle up to 120°, work can be carried out on the narrowest construction sites, alongside walls, hedgerows and on sloping terrain. The standard monobloc boom offers operators a staggered

boom set-up to give the excavator extra dumping height, range, and digging depth. The optional circular boom is ideal for limited access jobsites, such as inner city construction sites, where space is constrained.



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Full Steam

Pullman Ermator, manufacturer of dust extraction equipment and wet vacs have almost had an explosive development in recent years. The outcome of this year points to a more than 30 percent increase that appears to also continue in 2017. PDA met some of the key people in the company's head quarters few months back.

It has been some years ago that PDA Magazine covered Pullman Ermator's production facilities in Smedjebacken, Sweden. But a few months ago it was time again. PDA's editor in chief met up with the company's management team, consisting of the company's CEO Petra Bengtsson; sales manager Fredrik Akermark; sales manager for the Nordic region, the Baltics and Poland, Stefan Bergsten; and product manager Jonas Eriksson. Torbjörn Bengtsson, who founded the company, has been retired and has withdrawn from the operative business. Quite a lot has happened during the last five years and today the company also has assembly in its subsidiary in Tampa, Fla.

The boost came in the 2000s

A lot has happened at Pullman Ermator. The company was founded in 1985 by Torbjörn Bengtsson and was then called Bevaclean. At that time, they imported vacuum cleaners and air cleaners from Italy. As the business grew during the 1990s they began to develop and build their own machines. In the late 1990s, Bevaclean acquired the dust extraction and wet-vac production from the US manufacturer Pullman. Bevaclean changed its name to Pullman and employed more than 20 people, with sales of about \$2.7 million. Beginning in the 2000s, Pullman made a series of acquisitions, including Ermator; hence the name Pullman Ermator today. The product range was widened sharply and exports took off. Since 2007, Pullman Ermator has its own subsidiary in Tampa. In 2013, it acquired Pullman Holt's HEPA vacuum cleaner line.

Pullman Ermator's 50-model product line currently consists almost entirely of products, equipment and accessories for professional use. Undoubtedly, the most popular product is the S26, but the entire A series of air cleaners are also among the users' favorites. Another key product is the T75003-phase extractor. The new propane-powered dust extractor has also become very popular in the US. Pullman Ermator is literally moving forward with full steam. Last year they reached a sales of almost US\$ 25 Million and employed 65 people.

"We were very pleased with the development last year, but it's nothing compared to what we're having this year," Akermark says. "We are facing a sales increase of over 30 percent overall this year and I expect that we have revenue of \$ 33 million."

What are the causes of the company's strong expansion? Actually, Pullman Ermator remained fairly low with product innovations in recent years. There have been some upgrades and new accessories but no revolutionary news. Sometimes it can be a big news feed that is driving up sales. However, Pullman Ermator launched a lot of news a few years ago that still holds up well in competition.

"We don't believe in developing new products just for the sake of it," Akermark says. "We have good basic products and many of our dust extractors and air cleaners were ahead of the regulation when they were launched in Sweden. Here I think we and also our competitor Dustcontrol distinguishes us from other manufacturers. We both have good products that amply meets up with the law and are effective both in terms of capacity and to protect the user."

But the reason for Pullman Ermator success is the wide

Pullman Ermator's current flagship vacuum model, the S26.



From left in front of the entrance to Pullman Ermator plant in Sweden: Stefan Bergsten, Sales Manager for the Nordic, the Baltics and Poland; Petra Bengtsson, CEO; Fredrik Akermark, International Sales Manager; and Jonas Eriksson, Product Manager.

product range and its quality products that hold and make a difference. Another reason is a strong sales organization. When Pullman Ermator gained a strong foothold in the U.S., it had obviously a great impact on sales growth.

"Our sales in the US today are more or less the same as in the Nordic region of Europe," Akermark says. "But this year we are seeing a clear increase in Europe, especially in Germany."

In the Nordic market, Pullman Ermator currently has 45 employees, with 30 in production, and 15 in sales. Only in the Swedish market have five salesmen, including sales manager Stefan Bergsten. In the US the current number of employees is 20. Pullman Ermator also has distributors in many European countries such as France, UK, Benelux, Turkey, Greece and others. The company also has good distributors in Australia, South Korea, United Arab Emirates, Israel, and South Africa, to mention a few.

"In the Nordic countries we have also had very favorable year," Bergsten says. "The home market Sweden is obviously the strongest and the engine itself, but we have great development, especially in Finland and Norway. The Baltic states are also clearly gaining ground."

Bergsten adds that in Sweden, rental companies play a key role in sales. Pullman Ermator supplies all the major rental players like Cramo, Ramirent, Lambertsson, Skanska Maskin and Stավdal

pullman Ahead!



with equipment. But he points out that the smaller independent rental companies are equally important. Pullman Ermator's equipment is also frequently used among demolition contractors, concrete cutters, concrete floor grinding companies, carpenters and traditional building contractors. CEO Petra Bengtsson emphasizes, however, that the only problem they are grappling with right now is the lack of space at the factory in Sweden.

"With the pressure we are experiencing now in orders makes it busy days in production," she says. "It is important that the components come into line with the actual devices is mounted to and shipped to the customer. But it quickly becomes full production, and we will need to expand our production premises pretty soon."

"It may seem like a pleasant problem but can cause a lot of problems if not products sold can be delivered.

"However, we have so far managed to keep delivery times pretty good," Bengtsson adds.

Growing opportunities in the US

Akermark has been the driving force for Pullman Ermator's US operations since the office opened in Tampa, Florida almost 10 years ago. He moved his family to Florida and during this period, he put all his time in the US market. Akermark has since taken

on the job of global sales director, and handed North American sales responsibilities to Lyndon Kelsey.

Yet Fredrik and his family are very happy in the US, and plain to remain there.

"I move all the time around the world in different countries to stay in Florida is not an immediate problem," Akermark says. "We are rooted in the United States and in particularly the children love it here."

One problem, however, as Fredrik points out, is when he makes a business trip in many countries simultaneously, then re-enters the United States. Once, he was in Dubai, made a side trip to Saudi Arabia, and stayed in Turkey to return home. On his way home, he was screened at border control which meant more than simply walking through an x-ray scanner. The test is performed on the bare skin and takes up to an hour and a half. Akermark's advice: be sure to have plenty of time for the next flight.

On a more serious note, Akermark stresses that the US company is not simply a sales office. Nowadays, some products are assembled there, and the Pullman Holt series acquired in 2013 is

The 3-phase extractor T7500 is another popular product on the US market.





Pullman Ermator gang behind the bestseller S26.



A Series of air purifiers is also a popular product, sales of which are increasing in the US market.

also US-made. In addition to Pullman Ermator's own six salesmen, the complete range of company products is also sold through the Jon Don Dealership chain, which has 11 different offices in North America. For the past few years, Pullman Ermator has also supplied 3-phase vacuum cleaners to Sunbelt, one of the largest rental chains in the US. Fredrik says he eagerly looks forward to 2017 on the US market, due in large part to new OSHA work environment directives. As of June 23, 2017, permitted dust levels on worksites in the US will be reduced by half. Non-compliance will be expensive for US contractors which forces them to buy approved equipment. This is beneficial for both Pullman Ermator and Dustcontrol, which already meets the new standards.

"This will be an important breakthrough for us," Akermark says. "We have been successful already, but here I think will give us an edge over all our dust collectors but in particular for our popular S26. We already reach the new OSHA regulations with our current product range. It is worse for US and other manufacturers who must now adapt their equipment to the new rules."

Akermark says Pullman Ermator is constantly working to improve its product range. Just in time for World of Concrete 2017, the company will launch three new models. Akermark believes the positive market situation will remain for at least two to three years in Sweden. The est of Europe with Germany and the US looks promising, increasing gradually over the next few years. The US market should be very interesting especially after the new directives introduced in next year.

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Pullman's wet-vacs are long-renowned for their reliability. This particular product above was manufactured in 1969. And to the left the wet vac W70 today.




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Tyrolit's New Saws

Tyrolit has added two new electric hand-held saws, the HRE400 ring saw and the HBE350 hand saw. The HRE400 ring saw is aimed at the requirements of concrete

prevented.

The HBE350 hand saw is the new 3.8 hp (2.8kW) all-rounder featuring a combination a low weight of 17.4 lb (7.9kg), universal suitability and easy handling. It has a saw blade diameter of 14 in (355mm), with a 5 in (125mm) cutting depth suitable for wet and dry cutting. The integrated dust extraction connection enables clean working both indoors and outdoors.

The HBE350 hand

saw was especially designed for universal cutting applications, such as natural stone, clay brick and concrete. It can also master smaller wall cut outs for installations and slots for expansion joints.

www.tyrolit.com



HBE350 hand saw.

sawing and drilling contractors for cutting corners without overcuts. It has a cutting depth of 12.5 in (317mm) and ideal for smaller cut outs such as windows. Thanks to its compact design and weight of only 22 lb (10kg), the saw is lighter than comparable models and well balanced. The saw is equipped with a 4.1 hp (3.1kW) electric motor with fully integrated electronics, so no further equipment is needed. Power is transmitted by the patented drive-roller system. The power transmission becomes even more effective at increased pressure, so that slippage is



HRE400 ring saw.

PRINOTH Presents PANTHER T14R Rotating Dumper

PRINOTH of Granby, Quebec, has launched PANTHER T14R Rotating Dumper. Offering the highest speed combined to the highest payload in its class, the PANTHER T14R carrier will set new standards in productivity and mobility and will present a patent-pending innovation called direction reset.

With its 29,100-lb (13,200kg) payload capacity, the PANTHER T14R has the largest payload of any vehicle of this type in its category. The rotating separation of this vehicle will allow working in tight, sensitive areas where other vehicles do not have access. Featuring the same large wheels/tandem suspension undercarriage design — unique to the PANTHER vehicles, the T14R stands out to competitive products by offering increased off-road capability and stable transport of material over rough terrain.

With a width of less than 102 in (2.6m), the PANTHER T14R can be operated at speeds up to 8.1 mph (13 kmh), which makes transporting the vehicle from one site to another much easier. Additional features of include a ROPS/FOPS certified cab designed for operator safety and comfort, and steering wheel control allows for a safe grip while moving through rough terrain and maintaining optimal precision and control. The steering components are ergonomic, telescopic and tiltable. The drive controls appear in standard color display allowing advanced interfacing capabilities.

The PANTHER T14R also offers a unique direction reset feature. Once the vehicle has turned 180 degrees, the upper portion rotates against the lower portion. By simply pushing a button, the operator

can reset both portions' alignment.

The PANTHER crawler carrier series is comprised of the T6, T8, T12, T14R, T16, and T22 models, and can access difficult worksites without damaging the terrain thanks to their low ground pressure design. While treading softly, they also carry the biggest payloads in the industry—12,000-46,000 lb (5,443-20,865 kg) worth of equipment, materials and supplies. Their superior stability and floatability are valuable assets when operating in challenging work environments such as mining, construction, oil and gas and electric utility.

www.prinoth.com



LEFORT Multi-Product 800 Shredder

LEFORT is expanding its range of machines with the latest addition to its product family: a horizontal Multi-Product 800 shredder. The shredder is designed to mill scrap metal before sorting and recycling. This type of machine has become an indispensable tool in the scrap metal recycling chain.

LEFORT shredders come with a multi-hammer rotor for crushing various products. The extensively tested configuration of the motor, directly connected to the rotor shaft via a hydraulic coupler, as well as the interchangeable hammer system in high-strength steel, ensure exceptional output capacity standards and vastly reduced maintenance time. The low motor rotation speed ensures high torque to handle the toughest materials. Dust extraction units, vibrating tables, and the waste sorting selection system are also tailored to customer needs.

LEFORT shredders are available in

different versions and power units in line with the necessary production capacity, and can be equipped with an electric or thermal motor. All machines respect the safety standards in force and carry the UL label for the U.S. market.

Since 1947, LEFORT has built machines in various plants in Belgium, driven by a passion passed down from generation to generation, and using the most efficient technologies and technical know-how.

LEFORT offers its customers a complete package—delivery, installation, and accessories, as well as commissioning and operator training. This helps reduce costs often incurred by the involvement of different suppliers.

Thanks to a worldwide dealership network, LEFORT customers can rely on a tried and tested functional structure, plus a stock of available spare parts to ensure



timely technical support of premium quality.

With this new generation of machines, LEFORT is further broadening its range of specialties and pursuing its strategy of developing new markets. With a firm foot-

hold in the scrap metal recycling industry for decades, LEFORT is today recognized worldwide as a benchmark for the quality of its manufacturing and exclusive design.

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General Equipment Company's New SP8/GH9HP Surface Planer is Ideal for Wide Range of Job Applications

General Equipment Company has introduced its new SP8/GH9HP surface planer for a wide range of job applications, including milling misaligned sidewalks and joints, removing thermo and cold plastic markings and prepping floors for new coating applications.

Powered by a 9.0-hp (6.7kW) Honda® GX270 4-stroke gasoline engine, the SP8/GH9HP planer is built with a unitized, welded steel plate frame, exclusive full length hexagon driveshaft and extra capacity ball bearings, to make this unit a workhorse. The planer has a maximum cutting depth of .625 in (16mm), a cutting width of 8 in (203mm),

and a cutting proximity to a vertical wall of 3.25 in (82.5mm).

Bearings are externally greased to extend the unit's service life. Cutting depth is adjusted using a screw-type, positive-locking depth selector, and the wheels located behind the drum make it easier to cut through high spots. Precise weight and balance enhance operator control and machine maneuverability.

Other than the SP8/GH9HP, General Equipment also offers electric- and pneumatic-powered surface planer models.

www.generalequip.com

Jenny Products Full Line of Electric Compressors Now UL Listed

Jenny Products, Inc. is proud to announce that it has achieved the "UL Listed" designation from Underwriter Laboratories (UL) on the company's full line of electric motor piston air compressors. This standard, in conjunction with other recent certifications, signifies that Jenny electric air compressors have reached an unprecedented level of safety in the industry. To be UL Listed means Jenny electric air compressors have been tested and determined to meet UL's strict requirements, which are based primarily on their published and nationally recognized Standards for Safety. The Canadian Standards Association (CSA) also certified Jenny air compressors to UL 1450 and C22.2 No. 68-09, the safety standards covering motor-operated air compressors, vacuum pumps, and painting equipment, for the United States and Canada. The requirements met for the certification were issued by CSA, which found that Jenny air compressors met the high safety standards of the UL 1450 code.

In January, Jenny made an announcement of certification; however, achieving

"UL Listed" is the next highest safety tier for air compressors. Going forward, all Jenny electric piston air compressors will carry both UL and CSA marks.

"It takes significant investment and effort to be UL Listed, and receiving approval from both UL and CSA is a proud milestone that speaks to the inherent safety of Jenny air compressors," says Daniel Leiss, president of Jenny Products. "This pushes Jenny to a safety standard not found with most compressor manufacturers that, when combined with known reliability and ease of use, offers just one more reason consumers can feel confident when purchasing a Jenny compressor."

UL and CSA certify, validate, test, inspect, audit, and advise and train in order to provide knowledge and expertise for customers to navigate various markets in the United States and Canada. The Jenny air compressors now UL Listed and certified to both UL and CSA standards include all electric units, from the small AM-Series hand-carry models up to the largest T-Series stationary compressors.

www.jennyproductsinc.com



Vipermetal Unveils New 3D Screening Buckets

Vipermetal, a Finland-based specialist in crushing and screening buckets, has unveiled its new 3D screening buckets specially designed for use on excavators and loaders. Viper 3D screening buckets have been developed to allow reuse and separation of different materials and fragmentations, providing in-situ usage of otherwise waste materials. Trench filling and padding, topsoil mixing/stabilization, and biomaterial screening/aerating are among the typical screening applications. The Viper screening bucket attachment is designed to be lightweight and provide easy changeover of attachments between base machinery. Downtime is minimized, as one operator can do several jobs and a number of different attachments are used with the same base machine. Viper 3D screening has been developed to increase hourly output and

improve the quality of screened materials. Rotors located in the bottom of the bucket move the material forwards and backwards depending if the rotors are turned clockwise or anticlockwise. In addition, "CenterTwinSpiral" rotors move material sideways to the center or side of the bucket when rotating clockwise or anticlockwise. U-shaped rotating axles move the material up and down, resulting in improved screening quality and higher capacity especially when screening humid and sticky materials. All Viper screening buckets have anti-clogging to ensure effective screening and units are manufactured using only Hardox wear steel to eliminate dead weight, increasing capacity and reducing fuel costs. Vipermetal's new 4D screening bucket innovation is currently in development phase, and undergoing tests.

www.vipermetal.fi



Viper screening buckets are available for excavators (2-50 tons) and loaders (1-35 tons). They are equipped with 3D screening technology to gain more output and better screening quality.

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