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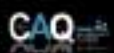
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## A Brief Word...

Here we are again, Final Period, Last Game of the Playoffs, Make or Break, Do or Die, and whatever other expressions you care to use.

Autumn is lurking, with Winter not far behind and completion dates are now staring us in the face. This flurry of activity also brings with it news that the economic roller coaster has levelled out and will soon begin an arduous and bumpy climb.

So what was all the panic about? Well in some quarters there is still reason for caution, but generally what was erroneously called "the worst economic crisis since the Great Depression", has been a painful and stressful bump in the road. However, it should be a lesson in good planning and management with the long-term stability being of greater value than short-term gain.

Funny how infrastructure and economics are more about long-term realities whether we like it or not. Take roads, bridges, tower blocks etc. There is a great fervor and hoop-la about the initial construction with many falling over themselves to take credit for spending the 1, 10, 100, or 1000 millions. Once completed, our leaders move on, the media move on, the public moves on and only a few are left with the reality and inglorious task of keeping it all together. Add to this the fact that maintenance is usually the first victim of fiscal stringency and suddenly maintainers are considered expendable or lepers.

Let's make the lesson of this past year be that genuine maintenance spending on infrastructure will improve our efficiency and eliminate the gluttony and waste of panic spending. Where there is life, there is hope!



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On the cover:

A new HIAB XS 435K articulated crane is used on a construction site by R. Marci & Frères Inc., a chain of building materials outlets operating around Montreal, Quebec.

## BABCOCK & WILCOX ENTERS NEW SOLAR RECEIVER MARKET

Babcock & Wilcox Power Generation Group, Inc. (B&W PGG), a major operating unit of The Babcock & Wilcox Company (B&W), has designed, developed and manufactured a tower-mounted steam generation receiver for eSolar's 5 MW solar thermal power plant in the Antelope Valley region of Southern California. This new product positions B&W to enter the growing market

of solar renewable energy. B&W is a major operating subsidiary of McDermott International, Inc.

Based on extensive research and existing steam generation technologies, B&W's new solar receiver is designed to make more efficient use of sunlight at a commercial size. The B&W solar receiver will sit atop a tower at eSolar's Sierra SunTower facility. The solar thermal power plant technology utilizes small, flat mirrors which track the sun with high

precision and reflect the sun's heat to B&W's receiver, which boils water to create steam. This steam powers a traditional turbine and generator to produce clean electricity.

"B&W is continually growing its clean energy portfolio, so this is a very exciting project for us," said Brandon Bethards, CEO of B&W. "Solar thermal technology is based on B&W's core technology strengths – heat transfer, superheating steam, and the development and use of advanced designs and materials. We appreciate eSolar's consideration of our design as they evaluate all their alternatives for their very promising approach to generating clean energy."

The solar receiver is designed for eSolar's model for utility-scale concentrated solar thermal power plants. eSolar's modular solar power projects marry a combination of proprietary software and prefabricated components for cost-effective scalability. eSolar power plants can be built in 46 MW unit solutions located close to existing transmission lines.

B&W's full-scale demonstration solar receiver was delivered to eSolar in April 2009. Babcock & Wilcox Construction Co., Inc. has been contracted to install the solar receiver, and demonstration of the receiver's capabilities will take place later this summer.

Source: The Babcock & Wilcox Company

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## CARMANAH LAUNCHES HIGH OUTPUT, LOW COST SOLAR-LED MARINE LANTERN

Carmanah Technologies recently introduced the company's most versatile, cost-effective solar-powered marine lantern to date: the M650 solar-LED marine lantern. Featuring a simple on-board programmable interface, convenient USB connection, replaceable battery pack and intelligent deployment capability, the M650 lantern provides up to four nautical miles of visibility making it ideal for lighting ports, harbors and marinas; marking obstructions and nautical hazards; or illuminating aids to navigation in all types of environments.

Designed for reliable operation in even the most challenging environments, the compact, self-contained M650 lantern features a robust housing designed to endure impacts, vibra-

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tions, submersions and temperature extremes in demanding marine environments. Installation is quick and convenient with a secure three-bolt mounting mechanism, and an onboard user interface with numeric display makes set-up easy – whether choosing a flash code, setting intensity levels, checking battery health, or even verifying the lantern's geographic coordinates (latitude and longitude). A built-in intelligent deployment feature enables the M650 to automatically adjust its optical intensity to suit the solar characteristics of its exact geographic location – an industry first.

Incorporating an efficient optical design and a peak intensity of 44 candela (as defined by the International Association of Marine Aids to Navigation and Lighthouse Authorities [IALA]), the M650 marine lantern includes more than 256 flash patterns, and can be ordered in all IALA (December 2008) marine aid to navigation light colours — green, red, blue, yellow and white – as indicated on each unit by a coloured band on the housing. With no bulbs to wear-out, the LED-equipped M650 can operate maintenance-free for up to five years on a single rechargeable (and recyclable) battery pack – then simply replace the old pack with a fresh one to extend the life of the unit for many more years to come.

As an environmentally responsible alternative, the solar-LED M650 marine lantern is assembled with safe, recyclable materials in strict accordance with the European Union's guidelines for the Restriction of Hazardous Substances in electronic equipment (RoHS). Long-term durability, reliability and performance are assured by a three-year product warranty. The Carmanah M650 solar-LED marine lantern is available now from Carmanah Technologies.

Source: Carmanah Technologies Corporation

#### MIDDLE EAST'S COMMERCIAL VEHICLES INDUSTRY GETS NEW FOCAL POINT IN UAE

The UAE is to position itself as a regional focal point for the commercial vehicles industry in the Middle East, which is aiming for more major growth as the market recovers from the effects of the global economic crisis.

The launch of the region's first specialized trade event for commercial vehicles in Dubai today came with a powerful endorsement from Mohammed Ben Sulayem, president of the Automobile and Touring Club of the UAE (ATCUAE).

Mohammed Ben Sulayem, who enjoys enormous respect within the automotive

industry, pledged the full support of the ATCUAE for Commercial Vehicles Middle East and said he expects the new trade event to help deliver more major growth for the industry in the region.

"This is already a thriving business in the Middle East, and all the signs point to a great deal of expansion over the next few years as the market recovers from the economic crisis and more manufacturers start production here," he said.

The UAE's commercial vehicles market grew by 38,5% between 2000 and 2005 and between 2007 and 2008 some regional distributors saw sales triple.

"The commercial vehicles industry demands its own specialist regional showcase, and the ATCUAE is eager to actively support an event which will bring together the industry's key players and lay the foundations for more growth."

Taking place from March 9-11, 2010 at the

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Dubai International Convention and Exhibition Centre, Commercial Vehicles Middle East is organized by Streamline Marketing Group in association with Reed Exhibitions, one of the world's largest exhibition organizers.

While the event is still eight months away it has already attracted confirmed participation from leading commercial vehicles manufacturers including Hino, BMC and Temsa.

Commercial Vehicles Middle East covers all types of heavy and light commercial vehicles,

special vehicles, vehicle attachments, accessories, maintenance and repair services. It will bring together decision-makers from every sector of the region's road transport business, such as freight and logistics, emergency services, security, construction, public transport and public works.

The UAE is at the center of regional growth in the commercial vehicles sector, largely due to the country's expanding public transport requirements. Two months ago Dubai Roads

and Transport Authority (RTA) announced a US\$517.7 million deal for 518 buses to act as a feeder network for the Dubai Metro, while in April, the Abu Dhabi Department of Transport announced that it will add an additional 500 buses to its fleet by the end of this year.

Commercial Vehicles Middle East will feature an international conference, specialized seminars and workshops, an indoor vehicle display area and an exhibition featuring a comprehensive range of products and services from around 100 manufacturers. The event is expected to attract more than 8000 visitors, including key officials from regional transport authorities and other government departments.

Source: Commercial Vehicles Middle East

#### BIOFUEL LEADER QTEROS ACHIEVES MAJOR BREAKTHROUGH IN PERFORMANCE OF ITS Q MICROBE PROCESS

Massachusetts-based biofuel company Qteros, whose breakthrough Q Microbe™ technology turns biomass into cellulosic ethanol, recently announced at an industry conference in Montreal, Quebec, that it has achieved unprecedented laboratory results in the performance of its proprietary, game-changing technology known as "C3" (Complete Cellulosic Conversion).

For the past several months, Qteros has been achieving major breakthroughs in the performance and scalability of its unique microbial process for producing cellulosic ethanol. Company scientists have reconfirmed their results and announced publicly that the Q Microbe™ process has demonstrated world-class ethanol outputs of 70 g/l (9% by volume) in a single-step process on an industrially pre-treated biomass feedstock.

These unprecedented yield results far surpass the 50 g/l considered to be the threshold for commercial production of cellulosic ethanol. Coupled with the previously observed bioconversion yields of greater than 90%, they make the Qteros method of producing ethanol more economical than any other process to date.

Dr. Sue Leschine, the University of Massachusetts-Amherst microbiologist who first discovered the Q Microbe™ near the Quabbin Reservoir in central Massachusetts, announced the breakthrough today at the World Congress on Industrial Biotechnology and Bioprocessing in Montreal, sponsored by the Biotechnology Industry Organization (BIO).

"We knew from the beginning that the Q





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Microbe™ was an extraordinary microorganism,” Dr. Leschine said. “These results confirm what we predicted: Qteros and the Q Microbe™ can make cellulosic ethanol a commercial reality.”

“In the last year alone, the Qteros scale-up team led by Dr. Sarad Parekh has increased ethanol titers by a factor of five,” said Qteros president and CEO Dr. William Frey. “We are now closer than ever to bringing clean, renewable cellulosic fuel to market at a price competitive with gasoline.”

Although Qteros achieved these outstanding ethanol outputs with a non-genetically engineered strain of the Q Microbe™, the company expects to capture further improvements by taking advantage of ongoing efforts in molecular genetics and strain development.

Qteros is a biotechnology company applying its discovery of the Q Microbe™ to produce clean transportation fuels at a price competitive with gasoline, using plant waste. Qteros has been funded by BP, Valero, Soros Quantum Fund, Battery Ventures, and Venrock, among others, to achieve a sustainable solution to the world's growing energy needs while reducing greenhouse gas emissions.

Source: Qteros

### HIGH-SCHOOLER BREAKTHROUGH IN CLOUD SEEDING TECHNOLOGY EARNS TRIP TO INTERNATIONAL COMPETITION

Mary Yiyue Zhao represented Canada in August at the prestigious International Stockholm Junior Water Prize competition held during the 2009 World Water Week in Stockholm, August 16-22. In all, national winners from 30 countries competed for the honor, which included US\$5000 and a blue crystal sculpture in the shape of a water droplet. The finalists were the winners of over 30 national Stockholm Junior Water Prize contests, which fielded a record 3500 submitted projects worldwide in 2009.

Ms. Zhao's project, *Grasping water*, is a novel method to make rain using an Ice Nucleating Protein. Cloud seeding using silver iodide can induce precipitation in dry regions. Unfortunately, use of the iodide can lead to excessive silver in the soil which damages the health of microorganisms.

Yiyue Zhao explored an environmentally friendly and commercial viable alternative to silver iodide: the Ice Nucleating Protein (INP) of the bacteria *Pseudomonas syringae*. The results of her research could have major implications on the use of cloud seeding to alleviate drought and clear smog.

Competing projects were displayed at the World Water Week exhibition hall, where each finalist were interviewed by a committee of international water experts. The Prize was presented to the winner, 18-year-old Ceren Burçak Dag of Nisantasi, Turkey, during a ceremony held in the Stockholm International

Fairs and Conference Center.

This year marked the 13<sup>th</sup> year for the international Stockholm Junior Water Prize program.

The Stockholm International Water Institute (SIWI) administers the competition, which is sponsored globally by ITT Corporation.

## ITM's 2009 Instrumentation English Buyers' Guide

In 25 years of selling instrumentation, ITM Instruments has produced over twenty Buyers' Guides. Their newest catalogue, BG0909, is the reference guide for the newest products available on the market as well as the tried and tested existing products.

The 592 full-color pages of industrial instrumentation cover a vast selection of product categories, such as: Electrical, Process, Pressure, Air Velocity, Temperature, Humidity, Flow, Level, Vibration, Speed, Distance, Force, Thickness, pH, Gas Detection, Light and Sound. New to this Buyers' Guide is our Flaw and Leak category.

The industries top brands: Fluke, Reed, Hart, Dwyer, BW, Hanna, TSI Martel, Shimpo, Spectroline and Thermor have joined ITM to make this their most complete and useful catalogue to date.

Source: ITM Instruments Inc.



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A wide range of tools are eligible for the loaner service, including most hammer drills, demolition hammers, diamond core rigs and drills, rotating and pipe lasers, and select powder- and gas-actuated tools. Whenever a covered tool goes in for calibration or repair, the Tool Fleet Management customer can request a free loaner tool via express delivery to maintain jobsite productivity. When the repaired tool is sent back to the customer, a pre-addressed and pre-paid shipping label will be included for return of the loaner tool. Hilti keeps it simple while keeping workers on the job.

Innovative tool management designed to improve productivity is the basis of the Hilti Tool Fleet Management service. The first of its kind, the Hilti Tool Fleet Management service includes a comprehensive tool analysis, upgrades that don't require a huge upfront investment, tool replacement, theft coverage and much more. The loaner service is the latest addition to this valuable service offering.

\*Some limitations apply.

Source: Hilti, Inc.



H.R.H. Crown Princess Victoria of Sweden is the Patron of the Stockholm Junior Water Prize.

Source: The Stockholm International Water Institute

## **BRIDGESTONE IS DEDICATED TO THE ENVIRONMENT**

Bridgestone Corporation, on behalf of its worldwide family of companies, recently announced the launch of its renewed Bridgestone Group "Environmental Mission Statement". The Environmental Mission Statement refines and further develops the "Environmental Policy Statement" formally issued in 2002 and reaffirms Bridgestone's commitment to environmental stewardship as stated in the Company's Environmental Philosophy: "To help ensure a healthy environment for current and future generations."

The renewed Environmental Mission Statement is comprised of two intertwined areas of focus – "Three Areas of Environmental Progress" and "Two Core Strategies for Growth" – that guide the Bridgestone Group's environmental management activities.

Using the Environmental Mission Statement as its unifying guide, going forward the Bridgestone Group will take further positive steps to enhance environmental management throughout its businesses. Three areas are identified for environmental progress. The first two – "Operations" and "Products and Services" – encompass the Group's business activities, and include energy and natural resource efficiency through product design, manufacturing and delivery. The third area, "Community Activities," includes a wide variety of efforts such as engaging in community-based wildlife habitat improvements and environmental education, as well as helping drivers improve fuel mileage. The two core strategies, enhancing environmental communication and the Group's Total Environmental Advanced Management System (TEAMS), create the foundation on which the Group will carry out its environmental activities in these three areas.

One of the missions the Bridgestone Group has set for itself in its corporate philosophy was "to contribute to the conservation of the environment." The Group has long positioned environmental management activities as an important focus item, and it has been decisively implementing initiatives and programs in support of this mission.

Source: The Bridgestone Group

## **PURE TECHNOLOGIES LTD. ANNOUNCES ACQUISITION OF JASON CONSULTANTS**

Pure Technologies Ltd., TSX-V: PUR, announced recently that it entered into an agreement in principle to purchase the operating subsidiaries of Jason Consultants Group Ltd.

Jason Consultants is a specialist consultancy focused on underground infrastructure engineering and technology.

The transaction is expected to close within the next month, subject to the execution of a sale and purchase agreement. Founded in 1979, Jason Consultants provides its clients with world-class expertise in the inspection, assessment and rehabilitation of water and wastewater pipelines; trenchless technology; and related underground infrastructure fields. Jason has been recognized every year since 2002 as one of the Top 50 Design Firms in this sector by Trenchless Technology Magazine. Jason Consultants has offices in

London, Geneva, and Washington D.C.

The business will continue to operate as Jason Consultants Group, and together with Price Brothers (U.K.) Ltd. and Openaka Inc., will form part of Pure's specialist engineering services group.

Source: Pure Technologies Ltd.

## **HERTZ ACQUIRES IRVING INDUSTRIAL RENTALS**

Hertz Global Holdings, Inc. announced that Matthews Equipment Limited, Hertz's Canadian equipment rental subsidiary, has acquired assets of the equipment rental business conducted by J.D. Irving, Limited under the name Irving Industrial Rentals, one of Atlantic Canada's leading industrial equipment rental companies in New Brunswick.

This acquisition will significantly boost Matthews' established presence in New Brunswick.

Source: The Hertz Corporation

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## **Wolffkran Partners With Roots**

Wolffkran is one of the world's leading suppliers of tower cranes, and now with Roots Group as their exclusive partner, the supply of WOLFF cranes to the Arabian construction industry is excellent. The Roots Group is a highly respected and leading company involved in trading a comprehensive range of building materials, and industrial supplies, which also includes power tools. The Roots Group operates in Saudi Arabia, UAE, Qatar, Egypt, Lebanon, Syria, Malaysia and China.

The contract for the cooperation was signed on March 23<sup>rd</sup>, 2009. In the course of this exclusive partnership Roots Group is taking over sales, rental and full consultancy service for WOLFF cranes for Saudi Arabia, Lebanon, Syria and Egypt.

Beside this long term arrangement the Roots Group already purchased 33 units of the WOLFF 7532. The pack of red WOLFF cranes will be used for the construction of the Princess Noura University for Girls in Riyadh, Saudi Arabia.

"Our strong engagement over the last years in Arabia has paid off: We are proud to win Roots Group as business partner and we are looking forward to a successful and long lasting cooperation," said Dietrich Sell, director of International Sales and Wolffkran representative for Saudi Arabia.

Wolffkran is one of the world's big players in the field of high and efficient cranes for large building sites. The German crane manufacturer has cleverly designed all components to be compatible across their range, regardless of whether they are luffing or hammerhead type cranes. The increased freestanding heights of WOLFF cranes are a particularly relevant benefit for Arabian construction sides. "We believe that the quality and performance of these German engineered cranes will be found to be simply the best in the industry" said Marwan Ghalayini, division manager in Roots Group.

Source: Wolffkran AG





## ELLISDON'S BANKERS COURT PROJECT ACHIEVES LEED® GOLD CERTIFICATION

EllisDon's Bankers Court has received LEED® Core and Shell Gold certification with the USGBC. EllisDon was the Construction manager for the office tower, which was completed in July of 2009. The building achieved 38 LEED credits during the final review process, and Gold level certification was announced July 30<sup>th</sup>, 2009.

Bankers Court was the most recent addition to the Bankers Hall complex, located in the heart of Calgary's business district. Bankers Court is the first LEED CS certified office tower in the city, at any level. This building is the third EllisDon building to receive LEED certification, with several more under construction pending certification at various levels.

"The project initially was targeting a Silver level certification", says Kim Rishel, EllisDon's Manager of Sustainable Building Services for Western Canada, "but with the hard work of a great construction team and all parties involved we achieved a Gold certification."

The design of the building incorporated many "green" features that helped it attain LEED CS Gold certification. One of these is

the triple glazed curtain wall that wraps the whole structure which, with a high proportion of vision panel glazing, permits ample natural light. Aside to contributing to the comfort of the occupants, the glazing also helps to reduce the environmental and economic impacts associated with excessive energy use. In addition to the glazing, the building has many other features including high efficiency chillers, condensing boilers, and low flow plumbing fixtures, all of which work towards it becoming a sustainable structure.

EllisDon's partners on the project included the firm Cohos Evamy who acted as the LEED Consultant. In addition to this firm, the project also had consultants for mechanical (Emans Smith Anderson Engineering Ltd.), electrical (Mulvey+Banani) and commissioning (agent RSR Engineering Services Inc.).

Source: EllisDon Corporation

## FDS EXTENDS ITS DISTRIBUTION CHANNEL INTO ONTARIO

Équipements FDS Inc., the leading distributor of Terex-Atlas cranes, recently announced they have extended their distribution channel through a new agreement with Gin-Cor Industries Inc., a well established company in

custom vocational trucks, based in Mattawa, Ontario.

Effective immediately, the agreement entitles Gin-Cor the rights to resell Terex-Atlas cranes, in the province. Through Gin-Cor's network, FDS will be able to strengthen its presence in the Ontario market. Gin-Cor presently distributes dump bodies, sand/salt spreaders and snowplows.

"Gin-Cor Industries' network will definitely provide us with the market penetration needed to reach our full sales potential. Équipements FDS Inc. has considered many distribution partners and we are confident that Gin-Cor Industries' values will help us leverage our position in the Ontario market," said Patrick Lapointe, Business Development manager at Équipements FDS Inc.

The popular Terex-Atlas cranes have been distributed in Eastern Canada for over 35 years. They are renowned for their quality and high degree of productivity.

Équipements FDS Inc., based in Terrebonne, Quebec, currently serves over 600 clients in Eastern Canada and employs 26 people. The company has won numerous awards with its Terex-Atlas cranes.

Source: Équipements FDS Inc.

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# Eaton's New "Ice Champion" Hose

Diversified industrial manufacturer Eaton Corporation today announced a new line of Aeroquip® spiral wire hose specially engi-

design, manufacture and marketing of a comprehensive line of reliable, high-efficiency hydraulic systems and components for use

automotive, power generation, port machinery and entertainment. Eaton's Hydraulics Group provides customer-driven solutions under



neered for low-temperature, high-pressure hydraulic applications. Aeroquip GH810 Ice Champion hose is suitable for customer use in temperatures as low as -55°C at operating pressures up to 6090 psi (420 bar), meeting the needs of customers operating in Alaska, Canada, and other Arctic and Sub-Arctic climates around the world.

Ice Champion hose is available in -12 through -24 sizes and uses Aeroquip Global Spiral TTC crimp fittings that require no skiving.

"We developed Ice Champion hose to meet the tough application requirements of construction equipment, oil and gas rigs, forestry and agricultural equipment, and other machinery operating in brutal Arctic conditions," explained Todd Pinkelman, Eaton senior product manager. "In addition to its low temperature capabilities, GH810 hose is also very rugged and abrasion resistant."

Aeroquip GH810 Ice Champion hose meets DIN EN specifications, has a 4:1 safety ratio, and has been qualified to withstand 400 000 impulse cycles. It has a higher pressure rating than competitive SAE 100R12 hose products, and is fully qualified with existing Aeroquip crimp machines.

Eaton's Hydraulics Group is a segment of the company's Industrial Sector. The business is a worldwide leader in the

in mobile and industrial applications. Mobile and industrial markets include agriculture, construction, mining, forestry, utility, material handling, earthmoving, truck and bus, machine tools, molding, primary metals,

product names such as Aeroquip®, Boston®, Char-Lynn®, Eaton®, Hydro-Line®, Synflex®, Vickers®, Walterscheid™, and Weatherhead®.

Source: Eaton Corporation

## California Approves HUSS MK Retrofit System for Volvo Tier 3 IERG Engines

In late 2008, Volvo Construction Equipment entered into a strategic partnership with HUSS, LLC, to provide retrofit systems for Volvo construction equipment that will significantly reduce exhaust emissions. The HUSS MK system now has final approval from California for Volvo Tier 3 IERG-equipped machines in that state.

The HUSS MK system, approved for use on Volvo engines utilizing V-ACT technology with internal exhaust gas recirculation (IERG), meets California's CARB Level 3+ requirements. Volvo equipment owners can utilize the system to help comply with the "In-Use Off-Road Diesel Vehicle Regulation", or to provide the best available control technology (BACT) for the newest machines in owners' fleets. Previously, engines using any type of EGR had been excluded from applying exhaust retrofit technology in California. This has now changed with the recent system verification by the state.

The HUSS retrofit system for Volvo equipment is capable of collecting up to 99% of diesel particulate matter (PM) emissions, substantially exceeding the California CARB requirements.

Source: Volvo Construction Equipment North America, Inc.





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## Mobile Crushing and Screening in Action

The unification of the Extec and Fintec brands within the Sandvik group of companies has created the world's most comprehensive and dynamic line-up of mobile crushing and screening equipment. The Sandvik Mobile Screening and Crushing range now delivers all the familiar characteristics of productivity, versatility and exceptionally low running costs, but they are now combined with levels of durability and aftersales support that are synonymous with the Sandvik name. New name, improved service, same great product.



# Reinventing Heavy-Duty Manufacturing

Detroit Diesel Corporation (DDC), an engine manufacturing unit of Daimler Trucks North America, has been presented with the Productivity Award in Warehousing/Manufacturing by the magazine Modern Materials



Handling. DDC was honored for its innovative materials handling process at its plant in Redford, Michigan.

Daimler Trucks' lean management concept, known as the Truck Operating System (TOS), has led to a sustainable reorganization of

DDC's Redford location. The engine manufacturer invested nearly €200 million (\$300 million) to refurbish and retool the 278 000 m<sup>2</sup> plant, where the DD15 and DD13 engines are manufactured. Updates to the plant included creating a central warehouse area with narrow-aisle high bay storage to free up space for the new line and implementing a Kanban system for materials procurement. The new system uses a series of specially-designed carts that deliver parts and components to the line and route the engines from one workstation to the next.

"We are proud to be recognized for our rede-

signed materials handling and storage processes," says Chris Russell, DDC's material flow engineering supervisor. "We strive to continually increase productivity and quality in line with the TOS, and this distinction is a reflection of our innovative



and pioneering approach to manufacturing."

Source: Daimler AG

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## Continental's HTL1® Trailer Tire "Rocks Out"

Customers are finding the benefits of "rocking out" by using Continental Tire North America, Inc.'s first super wide trailer tire, the HTL1®, in on/off road and construction trucking applications.

Designed for significant weight savings and fuel efficiency, the HTL1® (Heavy Trailer Long-Haul) is a super single tire that replaces duals on highway or regional trailer axle fitments. The HTL1® was introduced to NAFTA countries on July 1, 2009 and features 13/32 in tread depth, which minimizes irregular wear and maximizes fuel efficiency. The six rib design evenly distributes the load over the crown of the tire to protect the tread pattern from irregular wear, and a decoupler rib provides better irregular wear resistance at the shoulder.

Fleets that must conserve weight, such as fuel or bulk haulers, can use the HTL1® instead of a dual fitment in order to reduce vehicle weight, making more payload capacity possible. The HTL1® also provides greater fuel efficiency through advanced compounding and reduced rolling resistance.

Trucking fleets already using the HTL1® are

reporting another benefit of this tire. Although most trucking fleets choose a super single trailer tire to reduce weight or increase fuel economy, customers that choose Continental said they have found that its stone ejection system increases the longevity of the tire over other super single trailer tires they have used.

Continental's unique stone ejection system is a series of pyramids cut at unique angles in the groove that expel small stones, often picked up as the tire runs over the highway. Over time the stones can drill into the tire's casing, causing damage serious enough to warrant removal from service and even preventing the tire from being retreaded, said Roger Stansbie, Continental's director of radial truck tire technologies – NAFTA.

One advantage of this pyramidal design is that the pyramids can withstand abuse and wear to a greater degree because they are connected to the groove side, as opposed to free-standing. The pyramids are designed to maintain their effectiveness throughout the life of the tire.

Each tire and casing irreparably damaged by stones represents a loss of hundreds of

dollars in premature replacement, so the stone ejection system of the HTL1® has proven attractive to fleets operating in on/off road and construction applications, which are more likely to encounter stone trapping problems. Superior Ready Mix Concrete L.P., one of the largest manufacturers of concrete and aggregate construction products in California, said it was an easy choice to start using Continental for their wide base trailer tires.

"The main reason we switched over to Continental's HTL1® was the stone drilling aspect. Almost every tire on our bottom-dump trailer tires eventually has to be scrapped. With Continental, this has not been an issue," said Lauren Jongetjes, fleet tire manager.

Superior Ready Mix's fleet includes approximately 700 power units, with 90 dump trucks, 30 cement powder haulers, 450 concrete mixers, 110 bottom-dump trucks and trailers and other additional vehicles in operation across California. Mr. Jongetjes said they first experienced the benefits of Continental's stone ejection technologies after switching their steer tires to the HSR®



# New Lubricator Pump for Hydraulic Breakers

FLO Components is now offering the new HTL 429 Lubricator Pump for hydraulic tools. Designed to deliver precise lubrication each time a hammer or other hydraulically driven tool cycles, the pump is ideal for construction OEMs, hydraulic hammer retrofits, demolition attachments and medium to large breakers/hammers. The pump is manufactured by Lincoln of St. Louis, Missouri, a world leader in the manufacture and sale of lubrication and pumping equipment for use in vehicle service and industry.

The unique HTL 429 Pump protects your Critical Breakers / Hammers with precise, consistent lubrication, allowing your operator to lubricate the hammer without leaving the cab. The pump attaches directly to the hammer, gripper or crusher and is connected to the hydraulic power supplier of the



carrier. When the operator pushes the pedal to activate the hammer, the grease pump is activated, automatically sending a single shot of grease to lubricate the bearing points. When the operator's foot comes off the pedal and hydraulic fluid pressure is removed from the hammer, the drop in pressure releases the spring in the pump and recharges it so it is ready to lubricate again the next time the device is activated. This fully automatic system reduces machine repairs and replacement costs, and no work interruption means increased productivity.

Installed directly on the hammer, the pump travels with your hammer, not your machine, making it perfect for rental equipment or hammers used on multiple machines.

The HTL 429 is easy to use and maintain. It has a visual low-level indicator and utilizes standard 14.5-ounce grease cartridges for convenient refilling. An



attached grease fitting allows for manual filling and fast priming of the pump. Optional metering plugs offer four basic delivery rates per stroke of the lubricator. The ability to pump either chisel paste or standard grease and to adjust the delivery rate allows you to utilize the HTL 429 pump on several sizes and types of hydraulically driven tools.

Source: FLO Components Ltd.

(Heavy Steer Regional tire, now replaced by the HSR2®). He said they also found that Continental's HSL2® (Heavy Steer Long-Haul) and HDL2 DL® (Heavy Drive Long-Haul Deep Lug) are less likely to retain stones than other tires they have used. Overall his fleet uses Continental tires for over 50% of their tire needs.

Superior Ready Mix has used wide base tires on the bottom dump trailers for more than 10 years. Lauren Jongetjes said when he saw that the HTL1® came in the 445/50/R22.5 size and included stone ejection technology, he knew it was time to switch to Continental's wide base.

In addition to providing tire longevity by reducing the stones, Mr. Jongetjes said Superior Ready Mix also sees another financial benefit to using the HTL1® tire. California freeways are often crowded, and his company pays a significant amount each month in broken windshield claims from passing motorists.

"All the way around, stones are less of a problem with Continental. It's nice to see that they came out with another tire that is a good fit for our application," he said.

Clif Armstrong, director of marketing for Continental commercial vehicle tires - NAFTA,



agreed the HTL1®'s advantages of both weight savings and stone ejection make this tire ideal for the trailer position in construction and on/off road applications.

"We think fleets in these applications who try the HTL1® will agree that it 'rocks out' when it comes to stone ejection. In today's economy, it's important to not only save weight and fuel with your tires, but to be

able to continue using them throughout their expected lifetime, which includes retreading.

"If your fleet is looking to reduce weight, save fuel and use a long-lasting trailer tire which is less susceptible to damage, the HTL1® is a great solution that will lower your overall driving costs," Mr. Armstrong said.

Source: Continental Tire North America, Inc.

# Cimline Makes It to the Olympics!

The Sea to Sky Highway in British Columbia has become well known for controversy, beauty and for being the Olympian route for the 2010 Winter Games.

What may be less well known is the work put in, to maintain this thoroughfare and maximizing its longevity. This is a task, which was undertaken by the Capilano Highway Services division of the Miller Group.

The BC Ministry of Transportation is a

first 12-18 months of a pavement life, and the problem grows with age and use. More than 75% of all potholes could be avoided by implementing an aggressive crack sealing program in that initial window.

Understanding this, Miller-Capilano also knew that the process is ultimately only as reliable as the material and equipment used. As the leading manufacturer of sealant and other asphalt products in Canada, McAsphalt

of parts, service and technical support we get from the factory it is always a confident recommendation for Paving Solutions to make."

The Cimline Magma is the benchmark machine for the professional contractors and municipal authorities that take crack sealing seriously. Obvious features set the Magma aside from its competitors, like the tubular steel frame, fully insulated splash proof load-



recognized leader in implementing integrated construction and long-term maintenance contracts for infrastructure. The Sea to Sky being one of the largest and most comprehensive such programs with the added celebrity due to the coming of the games.

In keeping with the comprehensive nature of the contract Miller-Capilano is not only responsible for SNIC, but brush control, grading, safety barriers and rock slide prevention. Often with such all-encompassing projects, some basic pavement maintenance practices get overlooked in favor of more obvious or glamorous tasks. One of these is crack sealing – a sadly forlorn and somewhat orphaned preventative procedure. Miller-Capilano, like her sister company, MRDC in New Brunswick, knows the long-term benefits gained from such an inexpensive process when undertaken in a timely fashion.

Crack sealing produces the largest impact on road surface longevity for the lowest cost of any maintenance practice. Hot mix asphalt (HMA) and other pavement materials will begin to crack, perhaps imperceptibly, immediately after being laid. This is in part due to cooling and curing as well as compaction and settling of the base and substrate. Add to this the wear and tear of vehicles and freight, temperature and other climatic factors and it is not surprising that cracks begin to appear. Most cracking begins in the

was consulted. According to Trent Gofers of McAsphalt Vancouver, "We have recommended our Beram 190/195 hot rubber product. This will provide excellent adhesion in our varied climate as well as having high wear resistance and ease of application characteristics. Miller-Cap also asked our opinion about the various equipment available and that was why we referred them to Len Plett of Paving Solutions."

"The Black Stuff is second nature to us, so when we received Capilano's initial inquiry we knew we could provide them with the right machine for the job," said Mr. Plett. He continued, "After we reviewed their operations and consulted our technical support specialist, the Cimline 230 DH Magma was suggested. As the authorized dealer for British Columbia, we know there is no better highway class melter than the Magma. With the 1 Hour Start-Up Guarantee and the level

ing doors, standard fume reduction system, and on board spares kit. Add to these the unique angled burner with ceramic firebox and you get a machine that, unaided, can be operating in 60 min even at temperatures of  $-10^{\circ}\text{C}$ . The high efficiency diesel burner will provide a ration of 2,5 l of molten material produced for every 1 l of fuel consumed. Throw in the 113 l/min asphalt pump and the single electrically heated hose and a 230 DH can discharge as much as 1000 m/h of material. Is it any wonder that Magma is Canada's leading melter/applifier for both waterproofing and crack sealing?

With the eyes of the world turning to Vancouver 2010, and the Sea to Sky to be scrutinized by the International Olympic Committee and the world's press, Miller-Capilano will be able to stand tall on the podium knowing their Magma 230 DH is a true Olympian.

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# Ammann Acquires Asphalt Finisher Business From Antec/IRM

Ammann has acquired the asphalt finisher technology division and its employees from Italian company Antec/IRM (Italian Road Machinery) with headquarters in San Lazzaro di Savena (Bologna) within the framework of an asset deal.

The takeover will add small and medium-sized, easy-to-use asphalt finishers to the current product range maintained by the internationally operative supplier of road construction machinery based in Langenthal (Switzerland).

An important and technologically sophisticated product now rounds off the Ammann product range for road construction. Further extensions will be added successively to the new product range.

Asphalt finishers create a surface layer made of asphalt or other materials on a pre-compacted road subsurface. The addition of the new model range means that Ammann now offers its customers around the world every product they need to build roads.



Ammann has a broad scope of technological know-how at its disposal ranging from mineral processing to mixing plants and from asphalt finishers to a comprehensive range of compaction machines. Amman products are currently manufactured at nine plants in six countries around the world. The company

has further secured its position in the global market for suppliers of road construction equipment.

Source: Ammann Schweiz AG

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# Guided Boring System Designed for On-Grade Installations

Underground contractors now have a new option for the trenchless installation of water and sewer lines. The AXIS™ guided boring system from Vermeer is a pit-launched, laser-guided tool to install 25 cm to 35 cm pipe. The system can achieve pinpoint, on-grade accuracy and its versatile design allows for multiple applications in the installation of new water and sewer lines.

"We saw a void in the small-diameter, on-

The rack includes the thrust / pullback carriage assembly and gearbox. As the thrust/pullback carriage assembly moves up the rack, the gearbox simultaneously provides rotation to the cutter bit at the front of the drill head.



grade installation solutions currently serving the water and sewer market," says Ed Savage, trenchless segment manager for Vermeer Corporation. "Some of the current trenchless methods are designed to achieve the extreme accuracy needed for this kind of work, however, they lack the productivity needed to compete with the open-cut method."

The AXIS system is made up of four main components – the power unit, rack, vacuum pump and vacuum tank. The power unit contains the engine and hydraulic pumps and connects to the rack to power thrust and pull back of the drill stem.

The drill head uses a flat-face cutter and when combined with the laser guidance system, the Axis system is capable of completing flatter grades more accurately. The drill head can also be retracted in mid-installation allowing the contractor to change the drill head and adapt to changing ground conditions.

Although the AXIS guided boring system method is intended to go straight, the operator can make slight steering adjustments. However, the system requires very little steering. Rather than steering to achieve line and grade, the system steers to maintain line and grade based on the original entrance pit

set-up. When adjustments need to be made, the system steers via two pairs of hydraulically powered opposing rams on an "X" axis within the front of the drill head.

Drill stem segments, measuring 2 m long, are placed in the rack carriage. As rotation and thrust from the carriage assembly resumes, the drill stem is pushed through the hole. The process is repeated with numerous sections of drill stem until it reaches the exit pit. The AXIS guided boring system can complete bores up to 106,7 m in length.


Each segment of drill stem features a sight channel for the pipe laser and a hollow section that serves as the vacuum channel for the displaced soil. In the center of the drill stem is the connection for the drive shaft, which delivers rotation to the cutting bit on the drill head through the entire drill stem.

As the drill stem cuts its way through the soil, the displaced material is simultaneously removed by a high-power vacuum system. Spoil is then diverted to a vacuum storage tank. The vacuum process also provides for a cleaner worksite and allows a minimum annulus, which helps improve accuracy.

"A unique advantage of the AXIS system compared to other trenchless installation methods is its ability to either push or pull product pipe into place," says Ed Savage. "This flexibility places fewer restrictions on the type of product pipe (steel, clay, HDPE or PVC) that can be used on a given project."

Because of the flexibility of the four major components, various setup configurations can be used to adjust the machine's footprint based on jobsite and transport characteristics. For instance, in an urban jobsite, the AXIS guided boring system can be set up in one lane of traffic for minimal disruption. The AXIS system has been tested in a wide variety of ground conditions ranging from clay and sand to shale and rock.

Source: Vermeer Corporation

 booths K225, K332

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# Ottawa Construction Company Not Concerned About Cold Temperatures Anymore

Since its inception in 1948, Taggart Construction has grown to become one of Ottawa, Ontario's most respected construction companies. They are involved in several building projects, including the development of bridges, roads, sewage treatment plants, stormwater management systems, water treatment plants and solid waste management facilities. Their customers are primarily in the Ottawa and Kingston region and include municipalities and land developers.

Tony Labadie is Taggart Construction's Equipment manager. His job is to make sure that the equipment fleet – which includes a rugged assortment of trucks, bulldozers, wheel loaders, crawlers and excavators – is ready to work at all times. This is not always the easiest of tasks, especially when Mother Nature is not cooperating.

## BATTLING THE ELEMENTS

Ottawa has a semi-continental climate, with a warm, humid summer and a very cold winter. If not properly maintained, these varying temperature extremes can wreak havoc with equipment productivity and performance.

"Ensuring our equipment performs throughout the hot summer months and the freezing cold winter months is our biggest challenge," says Tony Labadie. Temperatures in the region can range from above 30°C in the summer to -30°C and below in the winter.

On average, Taggart Construction's equipment is moving, hauling, lifting, loading, crawling and digging away on multiple jobsites 10 hours per day, 5 days per week.

## MAINTENANCE IS KEY

If equipment is sitting idle, so are the profits. For construction companies, an effective maintenance protocol, good operating practices and the diligent application of quality lubricants help to reduce downtime and equipment failure.

Tony Labadie relies on Petro-Canada to provide him with lubricant solutions. Due to API category upgrades as well as the need



for advanced all-season performance, he upgraded his heavy-duty engine oil to Petro-Canada's DURON-E Synthetic 10W-40.

"We switched to DURON-E Synthetic 10W-40 because we needed a premium oil that could provide advanced all-season performance," says Mr. Labadie.

DURON-E Synthetic 10W-40 is a premium heavy-duty engine oil that is suitable for use in engines powered by both ultra low and low sulphur diesel. It is also backwards compatible, carrying the API CI-4 Plus, CI-4, CH-4, CG-4

licences required by pre-'07 diesel engines.

## THE SYNTHETIC SOLUTION

DURON-E Synthetic 10W-40 is known as the all-season, all-fleet heavy-duty engine oil. Tony Labadie can attest to this statement. "I really wanted a synthetic oil that could extend drain intervals, control soot and help us with our cold starts," he says. "I got all that and more after switching to DURON-E Synthetic 10W-40."

Mr. Labadie also likes the fact that his fleet is now benefiting from improved fuel economy through ease of start-up and lower viscous drag versus their older SAE 15W-40 oil. "I would recommend DURON-E Synthetic 10W-40 to any company in need of a quality all-season oil," he adds.

## THE FORMULATION

DURON-E Synthetic 10W-40 is formulated to the highest 4-stroke diesel engine oil standards and is ideal for use in extended oil drain interval service.

One of the reasons it provides such great performance benefits is because it is free of most of the impurities found in conventional oils. The formulation starts with the patented HT purity process, which produces 99,9% pure base oils – one of the purest in the world. By removing impurities that can hinder performance, DURON-E retains its "fresh oil" properties longer. Petro-Canada then blends these exceptional, crystal-clear base oils with high-performance additives to provide a number of performance benefits, including extended equipment life, reduced fuel consumption and low temperature properties.

## WORRY-FREE LUBRICANTS & SERVICE

"I would like to compliment Petro-Canada not only for providing me with great products but also for their outstanding service," explains Tony Labadie. "When it comes to lubrication there's no worry or guesswork involved. It's nice to have a company like them on your side, they really do provide

value to us."

Source: Petro-Canada Lubricants

*Results may not be typical. These claims were developed without extensive equipment testing or technical validation. Please consult OEM regarding specific recommendations for equipment.*



# New Prinoth GO-TRACT™ 4500 Carrier

Prinoth Ltd. proudly introduces the GO-TRACT™ 4500 fully-tracked equipment carrier that offers a line-leading 20800 kg payload with maximum mobility and minimum impact.

Designed to carry heavy equipment such as cranes up to 36 t capacity, man-lift booms, aerial devices, large drill rigs, and other heavy payloads, the new GO-TRACT 4500 has a ground pressure of just 4,4 psi at the maximum gross vehicle weight rating. The new carrier offers 3,25 m² more deck space than the GO-TRACT 3000 stretch. Yet it will fit on a double drop deck trailer.

A Caterpillar C9 EPA-Certified Tier 3 engine provides 375 hp to propel the GO-TRACT 4500 at ground speeds up to 10 km/h. The 454 l fuel capacity allows a full day's work on a single tank.

The ergonomically engineered cab includes

an easy to read full-color operator information display, micro-controller assisted steering, and R.O.P.S. certification at maximum GVWR. A back-up camera is optional.


Like all GO-TRACT series vehicles, the new GO-TRACT 4500 is backed by Prinoth's comprehensive post-sale service support featuring 24/7 telephone inquiry assistance and Prinoth-certified technicians on-site if required.

Prinoth will be exhibiting at the ICUEE - International Construction and Utility Equipment Exposition. The show will be held



October 6 - 8, 2009 at the Kentucky Fair & Exposition Center in Louisville, Kentucky.

Source: Prinoth Ltd.

 booths N1032, K190

## Create an Organized and Efficient Truck

A new video from leading truck cap and tonneau cover manufacturer A.R.E. showcases how its flexible cargo net – the SuperNet – can be paired with a BedRug® bedliner to turn a truck bed into an organized, efficient trunk.




When used together, the A.R.E. SuperNet and BedRug bedliner are the perfect combination to get the most utility from a pickup truck.

A.R.E.'s SuperNet is a flexible, durable cargo net featuring four possible configurations to securely stow gear. It can be used as a cargo divider or cargo basket, and can be positioned across the rear of your truck bed, or along either side of the truck bed.

The rugged all-plastic BedRug offers a tough and durable liner that stands up to abuse without damaging the truck bed. Its carpet-like surface makes the SuperNet easy to install by attaching to the BedRug using Velcro strips and 3M tape. The soft surface of the bedliner paired with the flexibility of the SuperNet keep gear organized and undamaged in your truck bed.

A.R.E. has been a leading manufacturer of fiberglass truck caps and hard tonneau covers for the past 40 years, with more than 500 employees at its ISO-9001:2000-certified manufacturing facilities and a network of more than 500 independent authorized dealers.

Source: A.R.E. Accessories LLC,

 booth E235

## Spotlight on Safety at ICUEE 2009

To help crane operators perform their job done safely, efficiently and on time, Rayco-Wylie Systems is proud to introduce the new i3500 Rated Capacity Indicator for knuckle booms and the i3500 Range Limiting Device for concrete pumps at ICUEE 2009.

Designed for OEM's the i3500 is fully Can Bus with "plug and play" sensors for a quick installation and can be precalibrated. The calibration requires no extra hand-held device as it is performed using the display keypad. The user-friendly i3500 accommodates worldwide operators with nine languages to choose from, a unit of measure selection and international symbol keypad.

Concrete pumps often works in a confine area or close to power lines. The operator can easily program four different limits: limit height (roof), variable limit height, variable limit radius and free zone (two walls). Moreover, audible and visual alarms warn the operator when approaching work area limits.

To help the operators get accustomed to these systems rapidly, the i3500 comes with a laminated quick reference sheet. Moreover, customers can count on a comprehensive operators manual and a service network that extends to more than 35 countries.

By constantly striving to introduce new products that the customers demand Wylie Systems is proud to continue the pioneering spirit that has made them innovators in the crane monitoring industry since 1934. The new i3500 complements the existing line of Wylie crane monitoring instrumentation which includes wireless and cabled anti-two block warning systems, combinations of load, angle, length, radius and two-block indicators, total moment and hoist tension line rated capacity indicators and especially engineered offshore applications.

Source: Rayco-Wylie Systems

 booth 915



# The New BF: MB's Answer to Customers' Needs

MB S.p.A., a Vicenza company and world-wide leader in the production and sales of bucket crushers, was at the Intermat trade fair in Paris (from 20 to 25 April, 2009) to present its latest product, a new bucket crusher, the result of ongoing investments in technological research and the continuous attention to its customers' needs. The company has decided to present this new product during one of the most important international trade fairs in the sector of construction, to highlight the importance of this event.

The historical model has been transformed to offer an even more revolutionary product on the market, thanks to the in-depth research of the MB team and technical engineers. The company is committed to the constant satisfaction of customers' requirements, ever attentive to their needs, carefully listening to all problems faced every day on construction sites, finding solutions most suited to the various international situations in which MB S.p.A. operates. It is also thanks to the long-lasting relationships and loyalty

of clients that MB can produce bucket crushers that represent a valid work tool. The new version of the bucket crusher is in fact more resistant in work, featuring a more compact size and improved structural layout to facilitate operator manoeuvres on the excavator.

Despite the world crisis affecting all sectors, MB confirms its success and keeps on investing in research and development, giving priority to vertical specialization in the production of a single product that enables the guarantee of high quality and top performing bucket crushers. Also, company participation in major national and international events in this sector has enabled MB to establish and strengthen relationships and loyalty with clients, who always receive special attention.

At the Intermat fair, MB S.p.A. presented



a historical product of the MB house, in a modernized version, once again demonstrating that the investments in research and technology offered to clients ensure that the company achieves the maximum levels of quality and satisfaction.

Source: MB marketing department  
www.mbcruiser.com



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# Heavy-Duty Tanks For Proper Storage and Heating of Liquid Asphalt Cement

High-tech asphalt cement (AC) tanks from Asphalt Drum Mixers, Inc. (ADM) provide an economical way to store and monitor liquid AC, and are compatible with both ADM and similar competitive models of asphalt plants. Available in a vertical or horizontal/portable configuration, the asphalt tanks are designed with a serpentine coil arrangement to provide a heat exchange area of more than 365 m, ensuring consistent AC temperatures throughout the tank.

Constructed of heavy-duty steel, the tanks offer storage capacities ranging from 37 800 l to 132 500 l. Fiberglass blanket insulation combines with a stucco-embossed 0,4 mm banded aluminum jacket to protect the tanks and prevent heat loss.

The high-efficiency, hot-oil heater includes a fully jacketed firebox, multi-pass fire-tube heat exchanger and 318 l thermal expansion tank. The system also incorporates a 1,000,000-3,000,000 Btu/hr pre-packaged burner assembly. Other standard features

include a combustion air fan, fuel oil pump, and No. 2 fuel oil manifold with safety shutoff valves.

A tank-mounted, weatherproof control panel comes standard on both the vertical and horizontal/portable tanks. Features include a main power disconnect, motor start relays, circuit breaker protection, burner controls, automatic temperature controller, high temperature limit, flame signal relay, status indication lights, and alarm circuitry.

The horizontal/portable tanks feature a heavy-duty I-beam structural frame and landing gear with a manual hand crank. Accessories for the portable tanks include leaf spring suspension, air brakes, four radial



tires and a gooseneck trailer with a fifth-wheel kingpin hitch. An interconnecting equipment wiring package features quick disconnects on the control cables.

The horizontal tanks are also offered as a direct-fired system with a submersible fire-tube heating system. For added safety, the easily accessible 46 cm manhole on both the vertical and horizontal/portable tanks features a bolt-on cover plate.

Source: Asphalt Drum Mixers, Inc.

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# Innovation Still Prominent at SAKAI

Sakai's Compaction Information System (CIS) is proving to highway agencies and contractors that it is operator friendly, saves time and money and is also proving itself to be among the newest and most comprehensive compaction measuring tools.

Intelligent Compaction (IC), which is the compaction of soils, aggregate bases and HMA pavement materials using vibratory rollers equipped with a digital measurement system and a Global Positioning System (GPS) for mapping, is an emerging technology that holds the promise of becoming the new "Gold Standard" for measuring compaction.

Technology advancements such as faster computers and advancements in GPS and software now make IC a reality. The electronic compaction data now available gives new views of the compaction process including everything you wanted to know but were afraid to ask. Agencies are starting to recognize the advantages and are developing IC Quality Control specifications with the goal of adopting IC as standard practice. IC is poised to become the quality control/quality assurance (QC/QA) tool for the 21<sup>st</sup> century.

CIS is factory-installed on Sakai's vibratory single drum soil rollers or double drum asphalt rollers and can be used for a variety of applications. It uses GPS position data and is compatible with most GPS systems used on construction projects.

CIS hardware includes a large touch screen display at the operator station, the Compaction Control Value (CCV) sensor and a surface temperature sensor. AithonMT (machine terminal) software allows the roller to document the compaction process and the AithonPD (Plan Design) office software creates the plan files and allows for further analysis of the data and for preparing reports that quantify the compaction results.

SAKAI's experience with compaction measuring systems for vibratory rollers dates from the early 1980's with the first compaction meters and the development of the CCV sensor. For more than 20 years, CCV has been used successfully to improve compac-

tion results on a variety of soils, crushed rock and subbase materials and more recently with great success for HMA pavements as well.

Sakai IC vibratory rollers utilize an accelerometer-based system. As compaction increases with increased roller passes, the drum accelerations increase according to the machine/ground interaction and the sensor calculates a Compaction Control Value or CCV indicating the degree of compaction. CCV is a relative value that typically increases with roller passes and can correlate with other conventional single point density measurement devices as well as mechanistic testing equipment.

Sakai's CIS records all compaction data for the entire project simultaneously, including GPS position, CCV, number of roller passes

and surface temperature at every pass and every point along the way. This gives the contractor and engineer 100% coverage of the project, unlike a nuclear gauge. "The operator can see the results in real time on a big display screen," says Stan Rakowski, Technical Services manager for Sakai America. All recorded information (raw results) can be viewed and reviewed immediately on the roller by inspection

personnel or the data can be downloaded via USB for further analysis using the office software.

The display is a simple touch screen built into the roller's control panel. This screen enables the operator to quickly assess the level of compaction required. "The color display is extremely user friendly and allows the operator to see where he has been and where he is going to obtain consistent and uniform roller coverage", says Mr. Rakowski. "We had a roller operator at one of our demonstrations recognize the change in the asphalt mix during compaction when monitoring the compaction values on the CIS display screen. This was confirmed with the asphalt plant. Sure enough, the plant changed the mix

design," he continues.

"The CCV information is also viewable on the PC screen in real time and is vital



information especially when mapping the subbase," says Mr. Rakowski. "Weak areas can be identified and corrected before the HMA paving begins. This was demonstrated at an IC field demo last year in Minnesota when a portion of the pavement failed under construction traffic."

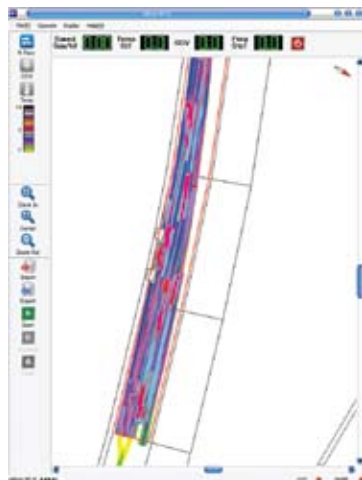
Since 2005, there have been a number of Federal and State sponsored demonstrations and research projects in the United States including NCHRP21-09, (the final report is due this fall) and the current Pooled Fund TPF-5(128), a 3-year study with Georgia, Iowa, Indiana, Kansas, Maryland, Minnesota, Missouri, North Dakota, New York, Pennsylvania, Texas, Virginia, and Wisconsin.

Sakai's CIS results are documented in the final reports for Minnesota and Kansas, the New York demo was completed in May. Mississippi and Maryland were completed in July, Georgia was scheduled for August. The results from these studies is confirming the benefits of the technology including reducing paving penalties for the contractor, improvements in quality and savings in compaction costs while at the same time reducing the variability of density.

"This system has proven itself to be very successful throughout our demonstrations with consistent electronic data reports," says Stan Rakowski. "We are very pleased with the results and are confident that the value of a CIS roller will be evident in all these demonstrations."

For more information on the IC demos, please visit [www.intelligentcompaction.com](http://www.intelligentcompaction.com).

Source: Sakai America Inc.



# New Hand-Held Compaction Control System

A new hand-held compaction control system CompLogger is introduced by Dynapac as a soil compaction analyzer providing the customer with a real time image of compaction over the entire surface to be compacted.

This easy to use CompLogger can be used for production planning and throughout compaction. Further, the data can also be saved for future quality control and evaluation.

Based on Dynapac's existing Compaction Meter and Compaction Analyzer, the new hand-held system is thought to be an industry first and features a rugged PDA and wireless data transfer technology.

The new hand-held facility is an easy to use, simplified version of the fully comprehensive Dynapac Compaction Analyzer system (DCA) which, nevertheless allows the operator to continuously read a direct feedback of the compaction results; enhancing the operators efficiency and compaction performance.

It is able to accommodate and evaluate a wide spectrum of parameters. These include rolling direction, rolling speed, vibration frequency and amplitude as well as the Compaction Meter Value (CMV) as measured by the roller,

Compaction results identifying possible problem areas are illuminated with user-friendly graphics.

Areas showing a poor compaction result are quickly identified allowing additional passes. If the compaction value does not improve, the operator is alerted and able to address the problem before the next layer is laid. In this way, for example, the operator is able to recognize and correct any problems whilst the machines are on-site. To return to the project and correct the compaction



problems at a later date is both expensive and creates additional delays.

Weighing just 0,5 kg the robustly-built, compact hand-held CompLogger is easy to install as it is battery-powered and utilizes wireless technology. The system also features dust and waterproof hardware. Similarly it does not inhibit operations in anyway and can be instantly connected/disconnected with ease as required, including from roller to roller on multi unit applications.

Source: Dynapac AB

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Doosan Infracore America has just launched Doosan Elite Plus™ which provides customers comprehensive product support solutions that help increase productivity, reduce downtime and improve the customers' bottom line.

"Doosan Elite Plus™ is tailored to fit the needs of our customers by providing solutions that reduce owning and operating costs and maximize uptime," said Michael Stanley, president and COO of Doosan Infracore America. "In today's tough economy, we recognize that our customers are working harder than ever to meet demands. With Doosan Elite Plus™ we provide customers the peace of mind they need to focus on their business."

Doosan Elite Plus™ is a product support program designed to protect and enhance resale value and help the customer control costs. Doosan's repair-before-failure approach allows customers to manage cash flow. Doosan Elite Plus™ offers the following support programs: Doosan Elite Assurance™, an extended warranty program, preventative maintenance programs, Doosan GPS, Doosan's Component Oil Analysis Program, Remanufacturing and All-Makes parts and attachments. Each one of these valuable programs can be used separately or as a comprehensive product system for a customer's fleet.

"The cost of doing business today is expensive, and Doosan Elite Plus™ provides tools that help prepare the customer for the unexpected, which reduces owning and operating costs," said Brian Myers, Doosan Elite Plus™ program manager. "Our programs, such as extended warranty and All-Makes parts, provide customers a one-stop-shop for all their product needs at reduced rates. It all adds up to improving the customers' bottom-line."

Source: Doosan Infracore America



## AEM Elects 20 New Members

The Association of Equipment Manufacturers (AEM) recently elected 20 companies to membership in the international trade group, which provides business-development resources for companies which manufacture and market agriculture and construction-related equipment, products and services.

The new AEM companies are:

- **Associated Global Systems Inc.** (New Hyde Park, New York), provider of supply chain management services.
- **Bader Rutter & Associates** (Brookfield, Wisconsin), provider of marketing services.
- **Craig Manufacturing Ltd.** (Hartland, New Brunswick, Canada), manufacturer of attachments for wheel loaders, graders, excavators, and dozers.
- **Deltasolutions Srl** (Reggio Emilia, Italy), manufacturer of planetary gear boxes.
- **Drilling World** (San Leandro, California), manufacturer of auger attachments and carbide bits.
- **Eisenmann Corp.** (Crystal Lake, Illinois), provider of paint finishing system services.
- **elobau sensor technology inc.** (Lake Bluff, Illinois), manufacturer of sensors, joysticks, and controls.
- **Enertech Fabricaciones SA de CV** (Frontera, Coahuila, Mexico), provider of metal fabrication services.
- **Erukunt Tractor Industry Inc.** (Ankara, Turkey), manufacturer of agriculture and specialty tractors 50-80 HP range.
- **General Kinematics Inc.** (Crystal Lake, Illinois), manufacturer of vibratory screens, classifiers, feeders, and recycling systems.
- **HCSS** (Houston, Texas), provider of computer software services.
- **NovaQuest LLC** (Charlotte, North Carolina), provider of PLM solutions.
- **Praxair Distribution Inc.** (Burr Ridge, Illinois), provider of engineering services, gas and gas mixtures, and equipment repair.
- **Quality Mat Co.** (Beaumont, Texas), manufacturer of heavy equipment mats.
- **R.R. Equipment Co.** (Lancaster, South Carolina), manufacturer of crushers, screens, conveyors, recycle machines, and aggregates processing equipment.
- **Saskatchewan Trade & Export Partnership** (Saskatoon, Saskatchewan, Canada), provider of trade promotion services.
- **Sharp Edge Tool Ltd.** (Windsor, Ontario, Canada), manufacturer of CNC precision components.
- **Tesab Engineering** (Omagh, Northern Ireland), manufacturer of aggregate crushing equipment.
- **ViaRural.com SA** (Buenos Aires, Argentina), provider of interactive on-line equipment catalogue services.
- **Vintage Parts Inc.** (Beaver Dam, Wisconsin), provider of slow-moving and inactive service parts.

Source: Association of Equipment Manufacturers

## IFAT CHINA 2010

Next year in Shanghai, World Expo 2010 and the fourth edition of the environmental-technology fair IFAT CHINA begin at almost the same time. There are also similarities in the themes of the two events: The Expo theme "Better city, better life" implies making ecological advancements in megacities in China and around the world. And IFAT CHINA, which is being held at the Shanghai New International Expo Centre (SNIEC) from May 4 – 6, revolves around the technologies and services that are needed to do so.

Eugen Egetenmeir, a member of the Management Board at Messe München International, sees the World Expo and IFAT China as two events that are mutually beneficial to one another. "While Expo showcases visions and concept ideas for sustainable urban development, our exhibitors present the equipment and state-of-the-art technology that are needed for environmental solutions."

World Expo 2010, which is being held in the Chinese megacity of Shanghai from May 1 – October 31, 2010, is expected to be an event of superlatives. With more than 200 participating countries and at least 70 million expected guests, it will surpass all dimensions known to date. The slogan "Better city, better life" calls for concepts for sustainable urban development that, above all, take ecological aspects into account in addition to cultural and social ones.

Because of Expo, the host city of Shanghai is supposed to become greener and cleaner than ever. According to Germany Trade & Invest (Germany's former Federal Agency for Foreign Trade), the business center will spend the equivalent of \$16 billion on environmental projects during the current fourth Environment Investment Plan, which covers the years 2008 to 2010.

The Middle Kingdom has also discovered energy-efficient buildings. One project that is attracting a great deal of attention among the general public is a 310 m skyscraper in the southern Chinese province capital of Guangzhou, which is supposed to generate all of its energy itself. The Pearl River Tower will be equipped with wind turbines, solar panels and fuel cells. Design by a Chicago-based architectural firm for the Guangdong Tobacco Company, the building is supposed to be finished in October of this year.

When it comes to sewage treatment, the largest investment programs are in China's rich booming cities. One current large-scale project is the modernization of the Shanghai Bailonggang Sludge Treatment Works. It is currently the largest sewage-treatment plant in Asia and has a daily throughput of 2 million m<sup>3</sup> during construction.

Source: Messe München International

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# Agenda

**2009 APWA International Public Works Congress & Exposition**  
September 13 - 16, 2009  
Columbus, OH USA

**Offshore Wind Conference & Exhibition**  
September 14 - 16, 2009  
Stockholm, Sweden

**4th Kazakhstan Energy Week**  
September 16 - 18, 2009  
Astana, Kazakhstan

**16th ITS World Congress**  
September 21 - 25, 2009  
Stockholm, Sweden

**WASTECON 2009**  
September 22 - 24, 2009  
Long Beach, CA USA

**China(Shanghai) International road & bridge technology fair**  
September 22 - 24, 2009  
Shanghai, China

**ESWP - 2009 International Water Conference®**  
October 4 - 8, 2009  
Orlando, FL USA

**ICUEE - The International Construction & Utility Exposition**  
October 6 - 8, 2009  
Louisville, KY USA



**WaterSmart Innovations Conference and Exposition**  
October 7 - 9, 2009  
Las Vegas, NV USA

**Trends 2010 / Garden & Floral Expo**  
October 20 - 21, 2009  
Toronto, ON Canada

**China Mining 2009**  
October 20 - 22, 2009  
Tianjin, China

**BICES - Beijing International Construction Machinery Exhibition & Seminar**  
November 3 - 6, 2009  
Beijing, China

**INFRA 2009**  
November 16 - 18, 2009  
Mont-Tremblant, QC Canada

**The Big 5 PMV**  
November 23 - 26, 2009  
Dubai, United Arab Emirates

**EXCON 2009**  
November 25 - 29, 2009  
Bengalore, India

**Atlantic Logistic Forum**  
November 26 - 27, 2009  
Pau, France

**CONGRESS 2010**  
January 12 - 14, 2010  
Toronto, ON Canada

**World of Asphalt**  
February 15 - 18, 2010  
Cincinnati, OH USA

**Bauma 2010**  
April 19 - 25, 2010  
Munich, Germany



**IFAT CHINA**  
May 4 - 6, 2010  
Shanghai, China

**Hillhead - Dates changed**  
June 22 - 24, 2010  
Buxton, UK



**IFAT 2010 - International Trade Fair for Water, Sewage, Refuse and Recycling**  
September 13 - 17, 2010  
Munich, Germany

**IAA Nutzfahrzeuge - Commercial Vehicles**  
September 23 - 30, 2010  
Hannover, Germany

**CONEXPO-CON/AGG & IFPE**  
March 22 - 26, 2011  
Las Vegas, NV USA



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## Trends 2010 and Garden & Floral Expo

Come see what thousands of buyers in the green and floral industries already know. Check out Garden & Floral Expo from October 20-21, 2009 at the Toronto Congress Centre, Toronto, Ontario, and discover the latest trends in plant and floral introductions, new and green products, technology solutions and business strategies geared to grow your business.

From the founding vendors to new technology solution providers, over 250 companies will showcase hundreds of new products for the 2010 buying season. The 10<sup>th</sup> annual Garden & Floral Expo is produced by Landscape Ontario in partnership with Flowers Canada (Ontario) Inc., Master Gardeners of Ontario, The Canadian Academy of Floral Arts (CAFA) and Plant Agriculture, University of Guelph.

Join more than 3400 industry professionals – retailers, growers, garden centre owners, florists, gift and mass merchant retailers plus landscape designers and interior plantscape professionals from Canada's largest horticultural marketplace as we celebrate ten years of innovation, commitment and service.

Garden & Floral Expo is a great place to discover industry trends, attend informative workshops, source new suppliers and network with industry experts from all different sectors of the business.

Source: Landscape Ontario

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## CFMS Prepares for 2010

The Canadian Fleet Maintenance Seminar begins preparations for its next event being held May 10-11-12 at the Hilton Suites in Markham, Ontario.

A subsidiary of the ATTSA (Automotive Transportation Service Superintendents Assoc.) the CFMS has been holding its seminar annually in the Toronto area since 1963. A non-profit organization, the CFMS' goal is to promote knowledge, skills and continuous improvement on matters related to vehicles and equipment of the trucking industry, with a specific focus on maintenance and safety. Through its use of discussion panels and guest speakers, relevant topics are routinely brought to life by active members of the North American Trucking Industry.

Working in conjunction with the OEM community, every effort is made to share experiences and technical insights on what works and what does not with today's equipment and products.

Of special note is next year's new location, 25 minutes from downtown Toronto and Pearson International airport and a new 2-day meeting format. Also featured will be an outside Truck /Equipment Display, Trade Show and Canadian Fleet Maintenance Manager of the Year award.

Source: Canadian Fleet Maintenance Seminar


## Allison Transmission Awarded DOE Stimulus Grant

Allison Transmission Inc. has been notified that it will be awarded a US\$62.8 million Department of Energy (DOE) American Recovery and Reinvestment Act of 2009 Grant to continue its efforts to design, develop and manufacture a cost-competitive commercial hybrid truck drive system. President Obama made the announcement on August 6<sup>th</sup> in Elkhart, Indiana, during a speech in which he discussed a national investment in electric drive vehicles and component manufacturing facilities. The Allison Transmission DOE grant will further increase U.S. capacity to manufacture hybrid propulsion systems for the commercial truck market.

Allison Transmission is the leading producer of hybrid propulsion systems for the city transit bus market, a product that was also developed with support from the U.S. Department of Energy. Since 2003, Allison Transmission has produced nearly 2300 hybrid propulsion systems for use in transit buses which operate in 126 cities. Allison Transmission hybrid propulsion systems have accumulated over 230 million km in service and have saved an estimated 29 million l of fuel while preventing 75 000 t of CO<sub>2</sub> from being emitted into the atmosphere.

Allison Transmission will produce its new commercial-duty truck hybrid system in Indianapolis, Indiana. Allison Transmission plans to collaborate with leading U.S. suppliers to produce the energy storage systems and other hybrid system components for the project.

Source: Allison Transmission, Inc.

 booth L465

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## Get Big Mulching Performance with Smaller Excavators


Fecon now offers the Bull Hog® for mid size and smaller excavators. The Compact Equipment Mulcher features Fecon's proven, durable Fixed Rotor System that allows you to grind material up to 10 cm in diameter. It also features Fecon's HDT Tooling System that offers four tooling options to tailor cutting tools to the job application.



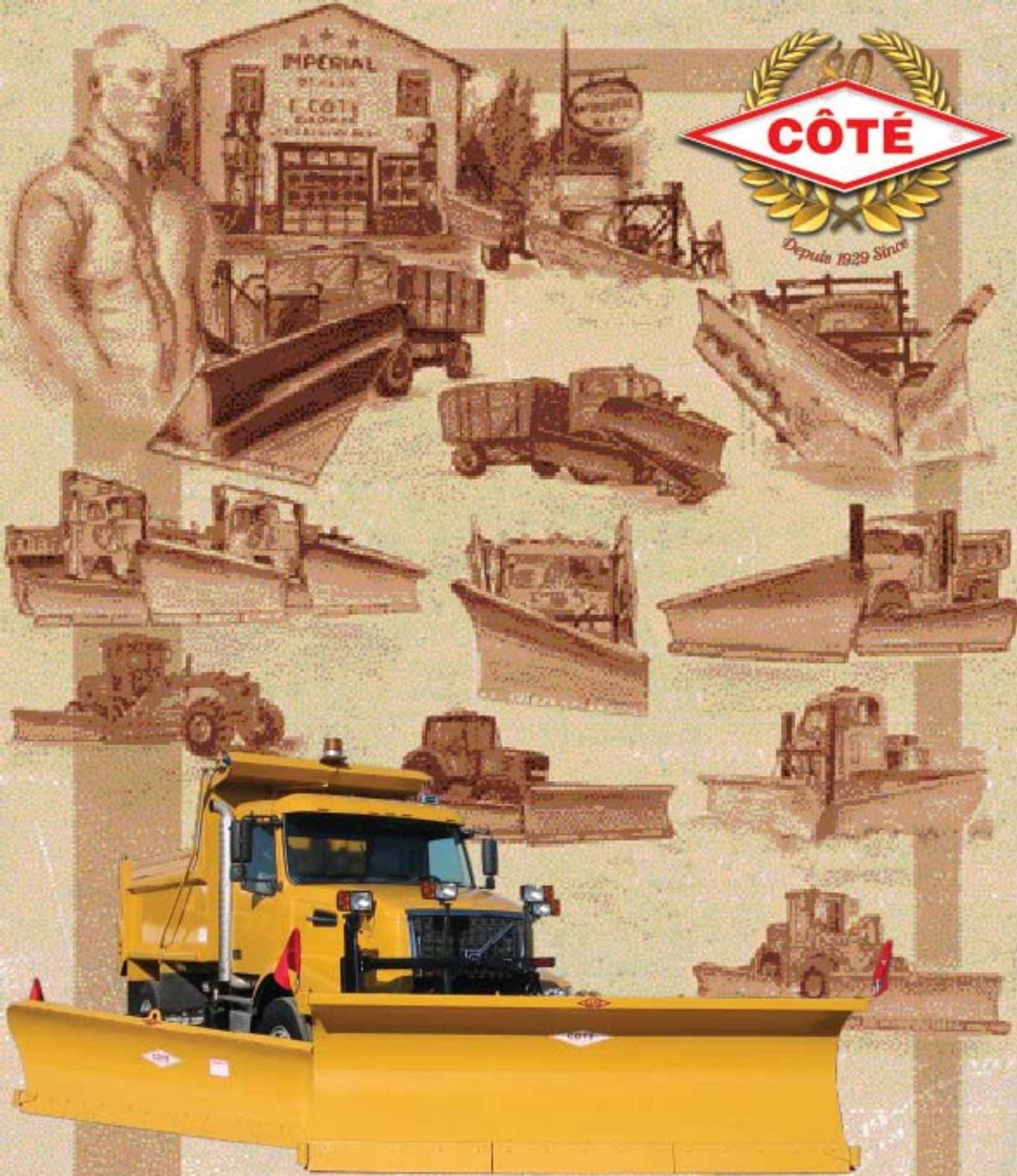
The Compact Equipment Mulcher offers a 91 cm cutting width and a maximum weight between 450-550 kg. Targeted for excavators in the 7-12 t range with 17-30 gpm of auxiliary flow. The Compact Equipment Mulcher also works well on other applicable machinery such as larger back hoes.

The Compact Equipment Mulcher is perfect for ditch and stream vegetation management and roadside vegetation management. Other applications include: Pipeline and Right-Of-Way Clearing, Invasive Species Removal, Fire Breaks, Land Clearing and Site Preparation.

Source: Fecon Inc.

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