

InfraStructures

The background of the cover is a photograph of a tall, modern building under construction. The lower portion of the building is encased in a glass curtain wall, which reflects the surrounding city skyline. Above the glass section, the building's steel framework is exposed, showing multiple floors with red safety railings. A tall yellow tower crane stands vertically next to the building, extending from the ground level to the top of the frame. The sky is blue with some light clouds.

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A Word From the Publisher



On the cover:

the Center for Life Science in Boston, Massachusetts, stands as the largest multi-tenant lab building in the U.S. It offers “lab ready” shell space that incorporates innovative flexibility features to accommodate and anticipate changing researchers’ needs.

The building’s 10 000 t steel structure was fabricated and erected by Supermetal Structures of Saint-Romuald, Quebec.

INNOVATIVE PROJECT TO CAPTURE CO₂ USING CHILLED AMMONIA

Alstom, together with its U.S. partners the Electric Power Research Institute (EPRI) and We Energies, launched a pilot project based in Pleasant Prairie, Wisconsin, that uses chilled ammonia to capture carbon dioxide (CO₂) from coal-fueled power plants.

Alstom designed, constructed and will operate the 1.7 MW system that captures CO₂ from a portion of coal-fired boiler flue

gas at We Energies' Pleasant Prairie Power Plant, a 1224 MW coal-fired generating station. Alstom's process uses chilled ammonia to capture CO₂ and isolates it in a highly concentrated, high-pressure form. In laboratory testing it has demonstrated the potential to capture more than 90% of CO₂ at a cost that is far less than other carbon capture technologies. Once captured, the CO₂ can be used commercially or sequestered in suitable underground geologic sites.

The demonstration project will provide the opportunity to test the process on a larger scale and to evaluate its potential to remove CO₂ while reducing the energy used in the process.

EPRI will conduct an engineering and environmental performance and cost analysis during the project, which will last at least one year. Through EPRI's collaborative research and development program, more than 30 organizations representing a large portion of the coal-fueled utilities in the United States have committed to support this project.

Source: Alstom

CASE INTRODUCES REMANUFACTURED HYDRAULIC PUMPS FOR EXCAVATORS

Case Construction Equipment has introduced remanufactured hydraulic pumps for its CX and 90B series excavators, providing quality, reliability and performance equal to new pumps but at a lower cost.

Like all Case authorized remanufactured parts, the hydraulic pumps are 100% remanufactured, not rebuilt or repaired, resulting in performance that meets all original equipment specifications. The pumps include all-new servo pistons and bores with improved seal design. They also feature calibrated regulators, power takeoff, pilot pump and electrical proportional solenoid. Once re-assembled, each pump is tested against Case OE performance standards for pressure flow and speed. Only pumps that fully meet OE performance standards are qualified as Case REMAN.

Case provides up to one-year or 1500 h warranty coverage, including six months free labor on remanufactured hydraulic pumps installed at a Case Dealer Service Center.

Source: Case Construction Equipment

DELO HEAVY DUTY EP GREASES IDEAL FOR SEVERE SERVICE ENVIRONMENTS

Chevron's Delo brand of technologically advanced engine oils, lubricants and coolants, has announced the latest member of its product family, Delo® Heavy Duty EP. Formulated with Chevron ISOSYN® base stocks, Delo Heavy Duty EP greases are ideal for on- and off-highway construction and maintenance vehicles, including tri-axle dump trucks and cement mixers, as well as a wide variety of off-road applications, including construction, surface and underground mining and agriculture.

Delo Heavy Duty greases display outstanding water washout and spray-off resistance

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properties in wet, off-road environments and offer excellent shock load extreme pressure (EP) protection. These properties make the product ideal for use with pins and bushings on buckets, loaders, shovels and continuous miners, shaker screens, crushers, and conveyors.

Two versions of the new grease – Delo® Heavy Duty Moly 3% EP and Delo® Heavy Duty Moly 5% EP – are also available. These greases will work in a wide range of applications where 3% and 5% molybdenum content is required to meet OEM warranty specification requirements.

The unique additive technology of these products makes them tenacious in adhering to metal surfaces found in these demanding heavy duty environments while helping to protect the machine's vital components from wear, rust and corrosion.

Delo Heavy Duty EP, Delo Heavy Duty Moly 3% EP and Delo Heavy Duty Moly 5% EP will be available across North America in the second quarter of 2008.

Source: Chevron Corporation

GE SUPPLYING WIND TURBINES TO RENEWABLE ENERGY SYSTEMS

Renewable Energy Systems (RES) Americas Inc. of Austin, Texas, has signed agreements exceeding \$700 million to receive GE Energy 1.5 MW wind turbines for projects in 2009 and 2010.

GE Energy will supply RES with nearly 500 MW of new wind energy capacity, and will provide commissioning and operations services as well as maintenance support.

RES Americas is part of U.K.-based Renewable Energy Systems, one of the world's leading renewable energy developers and a leader in the global wind industry for two decades. Since 1997, RES Americas has been a leader in the U.S. wind industry, either developing or constructing more than 12% of the country's installed wind energy capacity.

The latest agreement with RES reinforces GE's leadership role in the rapidly growing wind industry. GE's 1.5 MW wind turbine is among the most widely used machines in the global wind industry, with more than 8000 installed around the world.

GE's wind turbine technology is a key element of ecomagination, the GE corporate-wide initiative to address challenges such as the need for cleaner, more efficient sources of energy, reduced emissions and abundant sources of clean water.

Source: GE Energy

CANADIAN CONSTRUCTION ASSOCIATION HONORS NATIONAL CONSTRUCTION INDUSTRY AWARD RECIPIENTS

The Canadian Construction Association has honored excellence within the Canadian construction industry by recognizing the achievements of individuals, projects, and associations at its annual awards ceremony. The awards were presented during CCA's 90th Annual conference in Victoria, British Columbia.

The following awards and recipients were announced at the awards ceremony:

CCA Person of the Year Award: The 2007 recipient is Leo McArthur, president and CEO of the Miller Group of Companies located in Markham, Ontario.

CCA General Contractor Award of Excellence: The 2007 recipient is Alfonso Argento, president and COO of Seven Brothers Construction in Montreal, Quebec.

CCA Trade Contractor Award of Excel-



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lence: The 2007 recipient is Dave Pelletier, president of D & G Mechanical Ltd located in Kelowna, British Columbia.

CCA Environmental Achievement Award: The 2007 recipient is Windmill Development Group of Ottawa, Ontario for their Vento Project, located in Calgary, Alberta.

CCA Roadbuilders Award of Excellence: The 2007 recipient is Doug Woods, president of Cope Construction located in Sarnia, Ontario.

CCA National Safety Award: The 2007 recipient is the Ledcor Group of Companies headquartered in Edmonton, Alberta.

CCA Member Association Award of Excellence: The 2007 recipient is l'Association de la construction du Québec - région de Québec. An honorable mention was also awarded to the Calgary Construction Association.

CCA Community Leader Award: The 2007 recipient is Shirley Westeinde, chair of the Westeinde Group of Companies located in Ottawa, Ontario.

Source: Canadian Construction Association

STRONGCO PURCHASES CHAMPION ROAD MACHINERY SALES

Volvo Construction Equipment has announced the sale of Champion Road Machinery Sales, Brampton, Ontario, to Strongco Limited Partnership, Mississauga, Ontario. Champion Road Machinery Sales was a division of Volvo Group Canada, Inc., and a company-owned member of the Volvo CE North America dealer network. Strongco, a Volvo CE dealer, presently operates 20 construction equipment sales and service branches in 5 Canadian provinces. The acquisition was effective March 20, 2008.

The acquisition gives Strongco the sales, rentals, parts and service operations of Volvo's motor grader and compact equipment product lines in Ontario. Strongco will continue operations at the Champion sales and service locations in Brampton, Carleton Place, Goderich, North Bay and Thunder Bay to ensure that Volvo customers continue to receive product support and service without interruption.

Source: Volvo Construction Equipment North America, Inc.

SANDVIK ACQUIRES AUBEMA BETEILIGUNGS GMBH

Sandvik has reached an agreement to acquire the German system-technology provider, Aubema Beteiligungs GmbH and its subsidiaries AUBEMA Crushing Technology

GmbH and Beijing AUBEMA Technology Co. Ltd.

Aubema provides system technology in the specialized field of crushing and rock sizing. The main emphasis is on development and manufacturing of customized solutions for fragmentation of coal, coke, limestone, different types of ore, salt, fertilizer and other softer minerals and materials. The company focuses on design and production of custom-tailored equipment, including hammer mills, impact mills, roll crushers, cone crushers and vibrating mills. AUBEMA's head office is located in Bergneustadt, Germany, and the company has 70 employees in Germany and 10 in China. Completion of the acquisition is subject to the approval of the German competition authority.

"The acquisition is in line with Sandvik Mining and Construction's objective to be a leading provider of crushers for softer materials. Aubema has a first-rate product line within soft-rock applications, good design capabilities to further develop its product portfolio and is established within the large Chinese market for coal crushing," says Lars Josefsson, president of the Sandvik Mining and Construction business area.

Source: Sandvik AB

AECON AWARDED 3-YEAR UTILITIES DISTRIBUTION CONTRACT FROM UNION GAS

Aecon Group Inc. recently announced that its Infrastructure Division has been awarded a three-year alliance contract renewal from Union Gas totaling approximately \$150 million.

Under the terms of the contract, Aecon will install mains, service lines and distribution system pipelines, perform engineering pipeline project work, assist with integrity and maintenance of Union Gas' distribution pipeline infrastructure, and install standard distribution stations. The scope of the contract has increased and will now include the construction of some larger diameter pipeline projects.

The majority of the work will be done in Southwestern Ontario with a focus on the Windsor, Chatham, London, Sarnia, Waterloo and Brantford areas, with projects in Northeastern Ontario as well.

Aecon has additional contracts with Union Gas through several of its divisions. Aecon's Industrial Division works with Union Gas to build, expand and upgrade major compressor stations. As well, Aecon Buildings is currently completing a LEED Gold certified office build-

ing for Union Gas and will be constructing two additional LEED Gold certified buildings for the company in 2008/2009. In addition, Aecon Buildings will complete Tennant Improvement renovations to various sites across the Union Gas Portfolio.

Source: Aecon Group Inc.

AECON SECURES FABRICATION CONTRACT FOR OILSANDS

Aecon Group Inc. announced recently that its Industrial Central division has secured a fabrication contract valued at over \$25 million for an oilsands project in Alberta.

Under the contract, Aecon Industrial will perform pipe spool fabrication for Shell Canada's Scotford Upgrader Expansion 1. The project will be carried out at Aecon's Cambridge, Ontario fabrication facility. Work includes approximately 500 000 diameter inches of welding for carbon, stainless and alloy steel pipe spools and is scheduled to continue until Spring 2009.

This marks Aecon's second contract for work on the Shell Upgrader Scotford Expansion 1. Aecon Industrial's Western division is currently performing module work, which includes the fabrication of specialty pipe and the assembly of approximately 200 pipe rack and process modules for the Upgrader.

Source: Aecon Group Inc.

VENETOR GROUP EXPANDS TO SUDBURY!

Venotor Group of Companies, the largest independently owned Crane & Equipment Rental House in Ontario, is pleased to announce a new location in Sudbury, Ontario.

With the newest 1200 m² facility in Northern Ontario, Venotor is further able to provide exceptional and quality service to its customers. Dennis Beraldo, vice president of Branch Operations says "At Venotor, our main goal is to set the standard as a leader in the equipment rental business. Since the inception of the company, we have executed this mission successfully and this is exemplified by our geographic growth to our sixth location, Sudbury. We are continuing to make major investments to provide better service to customers, to differentiate ourselves from the competition and to accelerate growth." Venotor was recently listed as the 15th largest aerial lift company and 14th largest company for telehandlers in North America by American Lift & Handlers Magazine.

Source: The Venotor Group of companies

Vestas receives order for 109 turbines in the United States

Vestas has received an order for 109 units of the V82 1,65 MW wind turbine in the U.S. The wind turbines have a total installed capacity of 180 MW.

The order has been placed by the North American division of E.ON Climate & Renewables, a global developer, owner and operator of renewable energy projects. E.ON Climate & Renewables is a global market unit of E.ON AG which entered the North American market through the acquisition of Airtricity North America.

"With this order, we are further developing Vestas' existing working relationship with E.ON in Europe. We are extremely pleased that we are now continuing this working relationship in the U.S.," said Jens Søby, president of Vestas Americas A/S. "In 2007, the U.S. was the world's largest annual market for wind power and this order supports our positive expectations for the future development of the country's great wind resources."

E.ON Climate & Renewables operates a wind portfolio of over 1100 MW and has over 3000 MW of wind generating capacity in advanced stages of development.

"We are very pleased to be working with



Vestas on this project; the V82 1,65 MW is a machine with a strong track record and is a good addition to our portfolio," said Declan Flanagan, CEO North America for E.ON Climate & Renewables.

The order comprises supply and commissioning of the wind turbines as well as a five-year service and maintenance agreement. Delivery of the turbines is scheduled to begin at the end of 2008 and will continue through the first quarter of 2009. Commissioning is expected to be completed mid-2009.

Source: Vestas Wind Systems A/S

Agile Compact Sweepers

With its narrow width, the CitySpider is ideal for navigating the tightest of alleyways and most confined spaces. This quality, coupled with the superior sweeping power of the front brushes, ensure efficient, effective and precise cleaning in town and city centers, through pedestrian areas, at bus stops, along small passageways or in recreation areas.

The modern cab provides excellent all-round visibility and the convenient central PSS (programmable sweeping system) control panel, offers the ultimate in operator comfort and ease of operation.

State-of-the-art engines meeting the latest exhaust emission standards, outstanding suction performance and durable aluminium and stainless steel components give you a machine that is not only built to last but also protects the environment from dust and noise.

Bucher Schorling manufactures vehicles that provide maximum customer satisfaction whilst delivering the best value for money with the lowest total cost of ownership. They are distributed in North America by Accessories Machinery Limited.

Source: Accessories Machinery Limited



Coca-Cola Orders Hybrid Electric Drivetrain Systems

Eaton Corporation recently announced that Coca-Cola Enterprises will purchase 120 new trucks in 2008 powered by Eaton's hybrid electric drivetrain systems.

The Coca-Cola order represents the largest North American commercial order to date for Eaton's hybrid systems and follows the beverage company's purchase of 20 trucks with Eaton hybrid power systems in 2007.

Extensive testing and evaluations conducted by Coca-Cola Enterprises found that Eaton's hybrid-electric drivetrain equipped trucks decreased emissions by roughly 32% and fuel consumption by up to 37% as compared to conventionally-powered trucks in Coca-Cola's current fleet. Coca-Cola also reported lower maintenance costs on the hybrid-powered trucks.

"We have been working with Coca-Cola Enterprises since 2003 to assess our systems," said Dimitri Kazarinoff, general manager for emerging technologies at Eaton's Truck Group. "Coca-Cola is demonstrating its commitment to reducing pollution and green-

house gases, and Eaton is pleased to be a part of this effort. We are looking forward to working with them to deploy the systems into their transportation network."

Dave Leasure, corporate director of fleet procurement for Coca-Cola Enterprises, added, "In addition to the environmentally friendly advantages that hybrid vehicles deliver, we are also happy to report that driver acceptance has been highly favorable, especially in high start-and-stop applications. The hybrid drive units have been performing very well in communicating with the electronic engines, always giving us the necessary torque and horsepower when it is needed."

Eaton employs parallel-type, diesel-electric hybrid architecture with Eaton's Fuller® UltraShift® automated transmission. It incorporates an electric motor/generator between the



output of an automated clutch and input of the transmission. The system recovers energy normally lost during braking and stores the energy in batteries. When electric torque is blended with engine torque, the stored energy is used to improve fuel economy and vehicle performance for a given speed or used to operate the vehicle with electric power only. The system can also be designed to provide energy for use during engine-off worksite operations, further reducing noise, emissions and fuel costs.

Source: Eaton Corporation

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Metco and Roto: a Happy Pair!

It is in 1998 in Chicoutimi, Quebec, that METCO Inc., a steel structure and metalworking company, was founded. This organization has been quick to make its mark in the region and work on many sites. If you have a lot of work, you need efficient tools. For Richard Tremblay, estimation manager, it is his Merlo Roto 45.21 that makes the difference. On the financial side of things, he estimates that he is currently saving \$150 000 per year.

There is also a huge saving in time and labor when he is using the Roto rather than other type of equipment. As an example, unloading a truck used to take 2 hours and a half and five men. With the Roto, only 45 minutes and two men are needed. He is also cutting down the rental cost for scissor lifts although he still needs them for certain manoeuvres.

Working with the Roto changes the logistics quite radically because you have to determine first where you are going to place all your materials. "With machines that remain in only one place, you unload a heavier load

of material but in only one place. With the Roto that you can move around easily, you place your material in strategic places before assembling" explains Mr.

Tremblay. Also, using a larger platform offers the possibility of moving around more material and lowers the quantity of moves, which by itself, makes it more profitable.

If given the choice between the Roto and other equipment, he would use the Roto for all the mentioned reasons. It is definitely a more than profitable investment. According to his calculations, only with the time and money saved since his purchase, his payments for the unit are done until the end of the year.



He would therefore do this purchase again with closed eyes. He also greatly appreciates the service he has received, notably from the technical service of the Manulift branch.

Manulift is the distributor for Merlo products in Canada with sales and service locations in Quebec, Ontario and Alberta.

Source: Manulift EMI Ltd.

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Hydraulic Power Helps Hydroplus Protect a Dam in the Snowy Mountains

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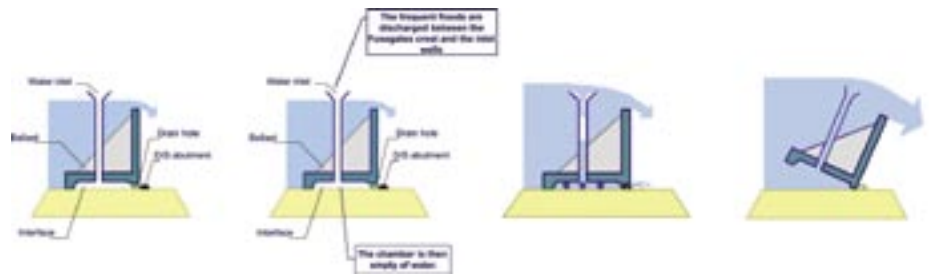
for industries extending across three States.

Undertaken by Snowy Hydro Limited to maintain their exemplary dam safety record, the flood protection measures are designed to safeguard people and property even against extreme floods.

The new Jindabyne Dam fusegates, where the 700 bar high pressure Enerpac lifting system was employed, comprise Hydroplus'

mined level – begins to enter the chimneys which are set at increasing heights above the crests of the fusegates and which extend down to a chamber at the base of each unit.

"Water pressure gradually builds up in the chamber until it reaches the point where it tips the entire structure, which releases more water downstream and takes pressure off the dam. The fusegates tip one at a time, in a



An Enerpac power lifting system configured for precision and safety has been employed to help install a flood control system on a key dam of the world famous Snowy Mountains Hydro-Electric Scheme.

The simply operated hydraulic system was specified for use during the installation of eight 300 t Hydroplus fusegates in a new auxiliary spillway to protect the Jindabyne

patented spillway control system of a type used in 41 dams worldwide.

The Jindabyne units each contain 9 m to 11 m high inlet well shafts or "chimneys" down which water passes to tip the fusegates over during extreme floods.

Hydroplus Australia director, Bill Hakin says an outstanding feature of the fusegates is that they overturn automatically in a

sequence from one through to eight, to cope with the degree of water release required."

The Enerpac equipment involved in the project included CLRG 20012 High Tonnage jacks, which each offer up to 200 t of force and 300 mm of stroke from a highly reliable cylinder that can withstand side load forces up to 10% of rated capacity without scoring. The double-acting cylinders were used in sets



Dam in the high country of Australia.

The 335 m long and 71 m high rock fill embankment dam carries the Monaro Highway serving townships and major ski resorts. It is one of sixteen dams of the Snowy Scheme, which was completed in 1967 to store water for irrigation and hydro power generation. The Scheme diverted major river flows westwards from Australia's highest alpine region, using water previously flowing east to open up ma-

pre-determined sequence to progressively release water according to pre-set upstream flood water levels. They are not activated by smaller to moderate floods, which spill over the crest of the fusegates.

From an engineering viewpoint, a wonderful feature is that their operation is non-mechanical; virtually maintenance free; very safe and reliable. As rising flood water spills over the fusegates it ultimately – at a pre-deter-

of four to ensure high margins of safety and control in lifting each fusegate in steps. The system also employed a new generation ZE 700 bar electric pump engineered with fewer moving parts and less friction to run cooler than conventional pumps and require 18% less current draw.

This was coupled to a 40 l manifold with V82 manual control valves to provide secure load holding as shims were inserted beneath

the load and cylinders at each stage of the lift. The system was employed to:

- jack the 8 fusegates 325 mm (in two stages) to remove prefabricated steel forms used to form the base chamber cavities;
- check that no bond was formed during the casting of the fusegate between the base chamber beams and the sill;
- weigh and check the centre of gravity of the fusegates so that design assumptions can be verified and the correct amount of concrete ballast used.

The 300 mm high fusegate base chamber – constructed from steel formwork in four sections – had to be removed from each fusegate after concrete was poured. Each fusegate was therefore designed with four jacking points to permit lifting and removal of steel formwork.

“The structural design of the fusegates was undertaken by Sinclair Knight Merz consulting engineers under subcontract to Hydroplus Australia and the four jacking recesses were designed with the type of jacks and their load



and very cost effective, which was important in a project with high safety requirements and a tight budget.”

“Despite some initial apprehensions about using a system we personally were unfamiliar with, we were well supported by Enerpac who sent in technical staff to show us the best way to get the safety and precision we needed. The system was very easy to understand and operate safely.”

demonstrated their prodigious lifting ability on tasks where safety and precision were at a premium, including use of PLC-controlled Synchronous Lifting Systems in splitting of a 3500 t dragline at Curragh in Queensland for maintenance and lifting of bridges for repair. Enerpac systems have also been used in the construction of the world’s highest bridge, the 343 m high Millau Viaduct in France, and the construction of North Sea oil rigs.



capacity in mind. The jacking system was designed for the worst loading case, where the heaviest completed fusegate was only supported by three jacks, two upstream and one downstream,” said Bill Hakin.

“Given the awkward shape of each fusegate and load distribution, an added precaution was to use steel shims placed between the fusegate and the sill during the lifting process.”

“The lift was done in two stages because of the 325 mm lift required with the 300 mm maximum stroke available.”

“Jacking was undertaken in a slow, controlled manner with shims added adjacent to each jack every 25 mm of jack travel to limit any movement in the highly unlikely event of jack malfunction and as a gauge for maintaining horizontality.”

“The whole jacking and lowering sequence was specified to take no more than 5 hours – and we had a fantastic run with it, no problems at all. The whole system was simple

Enerpac’s lifting systems have already

Balai Le Permanent Takes Delivery of a Bucher Cityfant 60 Sweeper

Accessories Machinery Limited recently delivered a new CityFant 60 sweeper to Balai Le Permanent Inc., a commercial sweeping contractor based in Laval, Quebec.

This more performant sweeper, assembled in Canada by AML-Bucher, is being added to the company’s fleet. This judicious choice made by André Jargaille and his son Marc-André will help them make a better street cleaning job, including removing weeds from along sidewalks with the specially developed weed-brushes available from Accessories Machinery Ltd.

Accessories Machinery Limited is a family-owned company that has been serving municipalities and contractors for more than 67 years.

Source: Accessories Machinery Limited



Quadrant EPP Teams Up with Komatsu®

QuickSilver® liners have achieved continued success due to the productivity advantage realized by over the road haulers. Expanding on that success, Quadrant EPP announced their intent to broaden use in this market to the off-road industry by teaming up with Komatsu. QuickSilver truck liners will be included as a factory option for the new HM400. This is a first for Komatsu® and the off-road truck industry. Quadrant's QuickSilver® was chosen due to its reputation for state of the art technology, highest quality material, consistent thickness, width and quality. This commitment from a manufacturer

solidifies the value a QuickSilver® liner can provide a hauler.

Quadrant EPP's products range from UHMW polyethylene, nylon and acetal to ultra-high performance polymers that resist temperatures to over 425°C. The company's products are used for machined parts in food processing and packaging, semiconductor manufacturing, aerospace, electronics, chemical processing, life sciences, power generation and diverse industrial equipment. Quadrant EPP's products are supported by a global team of application development and technical service engineers.



Source: Quadrant group of companies.

Cummins Announces QSX for Tier 4

Cummins Inc. announced at CONEXPO-CON/AGG that the Heavy-Duty QSX engine will be available with a fully integrated air intake to exhaust aftertreatment system to meet U.S. EPA Tier 4 Interim and European Stage IIIB off-highway emissions regulations in January 2011. The Tier 4 QSX increases displacement to 16 l and incorporates the XPI High Pressure Common Rail fuel system to enhance power output and engine response.

Very low emissions levels are achieved with Cummins Particulate Filter exhaust aftertreatment that reduces particulate matter emissions by 90% and cooled exhaust gas recirculation that reduces oxides of nitrogen (NO_x) by 45%. The Tier 4 QSX also features a crankcase filter to eliminate blowby gas emissions.

Performance-enhancing Tier 4 technology brings a significant increase in QSX power output with an unrestricted top rating of 650 hp compared to 600 hp for the current Tier 3 QSX. Ratings will extend down to 400 hp to cover a broad range of heavy-duty applications. Peak torque is increased by 12% to 2150 lb-ft with faster torque delivery available

across the engine rpm range.

Cummins XPI fuel system enables multiple injection events with very high fuel injection pressure across all engine rpm speeds to enable both cleaner combustion and improved engine response. The XPI fuel system is complemented by a Cummins Variable Geometry Turbocharger with a sliding-nozzle design. The nozzle continuously varies the airflow boost to precisely match engine rpm and load demands.

The Cummins particulate filter replaces the muffler in the exhaust stream and offers equivalent noise reduction qualities. The filter is especially strengthened against shock loads and vibration to meet the most severe off-highway operating conditions.

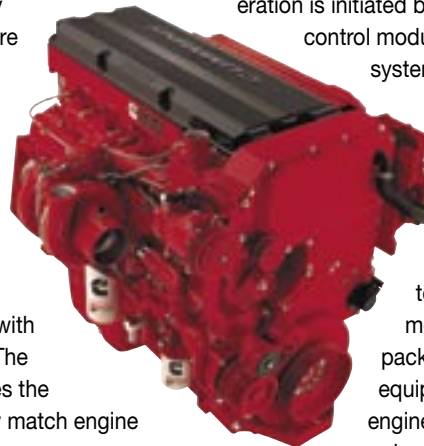
The Particulate Matter collects on the filter and is gradually oxidized by catalytic passive regeneration. With some duty cycles, PM

accumulation rate may eventually exceed oxidation rate, and a short active regeneration is initiated by the engine electronic control module utilizing the XPI fuel system and Variable Geometry Turbocharger.

Cummins ability to design, build and integrate the complete Tier 4 QSX engine system from air intake to exhaust aftertreatment offers substantial packaging efficiencies for equipment manufacturers. The engine ECM will integrate with equipment electronics, including CANbus common area networks for J1939 and ISO multiplexing.

The QSX is available with the new Cummins Direct Flow air filtration system by Fleetguard, specifically developed for Tier 4 applications. Direct Flow offers a 35% smaller installation profile than typical Tier 3 air filtration systems while maintaining the same filtration efficiency. This is accomplished by creating a direct-flow path through the filter media which is packaged in a rectangular configuration rather than a conventional cylindrical shape. The Direct Flow housing includes a sensor to monitor temperature and pressure which sends data to the engine electronic control module to ensure optimum airflow operation.

Source: Cummins Inc.



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MTU Demonstrates SCR Technology

At CONEXPO-CON/AGG, the Tognum subsidiary MTU Detroit Diesel displayed one of its Series 900 engines that is Tier 4i compliant using selective catalytic reduction (SCR) technology. Diesel engine manufacturer MTU Friedrichshafen has already demonstrated the experience and expertise necessary to offer its customers EPA Tier 4i compliant engines when these off-highway emission standards take effect on January 1, 2011.

The versatile Series 900 and Series 500 engine families were the ideal candidates for the use of selective catalytic reduction (SCR) to meet upcoming Tier 4 interim emissions regulations. "These engines have established themselves as the premier engines in their power class," said Scott Jenkins, director of C&I Sales for MTU's North American division, MTU Detroit Diesel. "And they have proven to perform just as well with SCR."

Emissions reduction often works in opposition, explained Gerhard Kramer, director, Application Center Industrial for MTU. For example, reducing particulate matter often increases the output of oxides of nitrogen (NO_x), and vice-versa. "As designed, the Series 900 and Series 500 engines exhibit low particulate matter emissions," said Mr. Kramer. "To comply with NO_x limiting values, an SCR system is added."

An SCR system works by injecting urea into the exhaust stream where it reacts with nitrous oxides to produce harmless nitrogen and water. This reaction takes place when the urea and exhaust gases pass over a catalyst material in the SCR unit. Urea consumption varies with duty cycle and other factors but is not expected to exceed 5% of fuel consumption. As a rule of thumb, fuel consumption compared to Tier 3 engines is reduced by a similar amount, so that total consumption of liquids remains the same.

The SCR system itself consists of engine-mounted hardware, urea lines, electrical wiring and a catalyst unit somewhat larger than a muffler. The catalyst unit is used instead of the standard muffler.

SCR is a proven technology already found in a wide range of applications. Some 200 000 on-highway versions of Series 900 and Series 500 engines have already been

sold and are operating satisfactorily. In Europe, all major truck manufacturers have adopted this technology. Urea will likely also be required for diesel engines to meet the on-highway 2010 emissions standards in North America, so the delivery infrastructure is being built out rapidly. Urea is non-toxic and requires no special handling. Service trucks will refill off-highway equipment with urea at the same time as they refuel that equipment. "Other emissions reduction technologies

have merit and MTU has experience with all of them," said Scott Jenkins. "Our philosophy is to match the best technology to the needs of the specific engine, and in this case SCR was by far the best choice. We wanted to take these proven engine families with state-of-the-art designs, and bring them into compliance with the next round of emissions standards without compromising the benefits the engines. SCR allowed us to do that optimally by adapting the existing on-highway technology for industrial use." Source: MTU Detroit Diesel, Inc.



Bridgestone voted "Tyre Manufacturer of the Year"

Bridgestone has been voted "Tyre Manufacturer of the Year" in the first-ever Tire Technology International Awards for Innovation and Excellence. The company received the award at a gala ceremony attended by around 1000 industry professionals and members of the press at the Tire Technology Expo in Cologne last February.

The Tire Technology International Awards for Innovation and Excellence is organized by Tire Technology International magazine, the world's only publication dedicated to tire technology, design and manufacturing.

An independent, international jury of 15 tire professionals, engineers and academics evaluated each nomination and attributed awards in five categories: tire manufacturing and design innovation; environmental achievement; tire technology of the year; tire industry supplier of the year; and tire manufacturer of the year.

Bridgestone was awarded for numerous achievements over the previous 12 months including the expansion of both its Technical Centre and Proving Ground in Europe – the only proving ground in Europe that can test all types of tire configuration on all types of road surfaces. Bridgestone was also cited for its production of advanced radial tires for the first Airbus A380, projects to improve the ecological balance of its activities and work on the global road safety campaign "Think Before You Drive".

As jury member Dr. Roger Williams, consultant and ex-technical director of a major international tire group, explained: "With its European Technical Centre in Rome, Bridgestone shows its recognition of Europe's importance in the development of vehicles and tires. It is very important that the company works in Europe, and it's amazing to see the major tire manufacturer in the east developing its research in Europe."

"We are extremely proud to have won the 2008 award for Manufacturer of the Year" commented Takashi Urano, of Bridgestone Europe. "Bridgestone's achievements on a European and international level will consolidate our position as a truly global leader in the rubber and tire business, both in name and reality."

Source: Bridgestone Europe



CONEXPO-CON/AGG 2008 Wrap Up

*The Stanley Works
Hydraulic Tools Product Group*

BRIDGESTONE FIRESTONE INTRODUCES NEXT GENERATION OF TIRE TRACKING

Bridgestone Firestone Off Road Tire Company (BFOR), an operating unit of Bridgestone Firestone North American Tire, LLC announced it has developed the next generation of its tire management software: TreadStat 3.0. The software was introduced at CONEXPO-CON/AGG.

"TreadStat has been a standard in the industry for years, but now it's even more



user-friendly and provides functionality that will help streamline a company's day-to-day operations," said Chris Rhoades, manager, Business Intelligence and TreadStat product manager for BFOR. "TreadStat 3.0 is the culmination of years of feedback from our dealers and end-users. We are proud to say that this easy-to-use tire management software will now be extremely powerful."

BFOR will offer TreadStat 3.0 with the option to perform tire tracking and analysis online as well as from a personal computer beginning in May. It can be accessed from any computer with an Internet connection, which means sites across the country or

world can share real-time data.

Source: Bridgestone Firestone North American Tire, LLC

DANA UNVEILS DRIVETRAIN SYSTEMS

Over the past 50 years, Dana Holding Corporation has demonstrated its ability to supply original-equipment manufacturers with fully realized drivetrain systems designed and integrated to meet specific vehicle demands. At CONEXPO-CON/AGG, Dana was promoting a new generation of drivetrain systems for front-end loaders and telescopic boom handlers that meet the grueling demands of construction, mining, and material-handling vehicles.

"Dana has long recognized that one size does not fit all, and a wide variety of axles, transmissions, and driveshafts is needed to meet the needs of OEMs," said Alfredo Gotardi, vice president of worldwide marketing and sales for the Dana Off-Highway Products Group. "The complete drivetrain systems on display at CONEXPO-CON/AGG exhibit a range of design-efficient solutions with drivetrain component capacities that exceed the life and load requirements of modern vehicle designs."

Dana has designed an optimized drivetrain system specifically for 33 t front-end loaders.

The system includes a Spicer® TE32 transmission, a Spicer Model 53R300 front axle, and a Spicer Model 43R183 rear axle.

These axles are available with field-proven Posi-Torq® and Hydraloc™ limited-slip differentials that supply improved traction control to meet aggressive digging and loading demands.

The Spicer Model 114 (33R092) Hercules™ front axle and Model 113 (29R053) rear axle, a Spicer 319 summing motor, and the compact Spicer 2035 Series driveshaft are combined as an optimized drivetrain solution for 16 t front-end loader vehicle applications.

This system features a Spicer 319 summing motor transfer case, which provides maximum tractive performance and high efficiency by delivering seam-

less CVT (continuous variable transmission) performance from 0 to 40 km/h.

Dana's driveline system for side-mounted cab telescopic boom handlers is designed to accommodate the increasing sizes of these vehicles while supporting increased productivity, higher reach, higher lift capacity, and greater versatility. With up to a 5 t lift capacity, the system is composed of two Spicer Model 223 axles and a Spicer HSY08 powersynchro transmission.



Building on the success of the Spicer HSR08 powershuttle transmission introduced at Bauma Munich 2007, the Spicer HSY08 powersynchro transmission offers either electric or automated range shifting with improved controllability. The Spicer HSY08 powersynchro transmission has a very low overall length to accommodate the short wheelbase of telescopic boom handlers, with lateral offset of outputs supporting parallel side-engine installations. An engine-dependent mechanical PTO for implement drives is available as an option.

Source: Dana Off-Highway Products Group

IVECO MOTORS, NOW FPT OF NORTH AMERICA, RESTRUCTURES

The company formerly named Iveco Motors of North America, Inc., proudly announces its new brand name, Fiat Powertrain Technologies of North America (FPT NA).

FPT NA is part of the Powertrain sector

You will find even
more articles in English on
www.infrastructures.com

of the Fiat Group known as Fiat Powertrain Technologies S.p.A. (FPT), which is wholly owned by Fiat S.p.A.

FPT has restructured its North American offices to align itself for a successful launch of its new brand of engines throughout the power generation, marine and industrial sectors.



Created in March 2005, Fiat Powertrain Technologies S.p.A. is the sector of the Fiat Group including all the powertrain activities previously carried on in: Fiat Auto (Fiat Powertrain), Iveco (Iveco Motors), Centro Ricerche Fiat (CRF) and Elasis (Research and Development).

With its annual output of 3,1 million engines and 2,5 million transmissions, FPT is one of the most significant players in the

powertrain sector on a worldwide basis.

FPT NA will operate as an independent Powertrain business as providers of engines and transmissions devoted to the open market and to other Fiat Group companies, such as CNH.

Source: Fiat Powertrain Technologies of North America, Inc.

MICHELIN EXPANDS OFF-ROAD APPLICATION OF X One® WIDE SINGLE TIRE

Michelin Americas Truck Tires has expanded the offering of its innovative line of wide single tires to include the on-/off-road applications. The Michelin® X One® XZY®3 tire is an all-position radial tire designed for optimized weight savings and significant fuel savings in on-/off-road operations.

The X One XZY3 tire features a long tread life using a special compound with outstanding chip and cut resistance needed for an off-road application. With an original tread depth of 23/32, the tire's flat and stable contact patch reduces irregular wear thanks to Michelin Infini-Coil Technology™, which features a quarter-of-a-mile of steel cable wrapped circumferentially around the casing

to eliminate casing growth.

Enhanced protection from stone drilling is provided by variable pitch groove walls and groove bottom protectors in the center grooves.

The X One XZY3 tire provides a reinforced bead package featuring a wide metallic chafer which leads to great bead durability and resistance to heat, which is common in stop/start applications.

The aggressive shoulder design delivers outstanding wet and soft soil traction, while Michelin's co-extrusion rubber technology provides cooler on-road operating temperatures at speeds up to 120 km/h. The X One XZY3 tire is available in a 445/55R22.5 size.

Source: Michelin



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MACK LAUNCHES NEW PRESTIGE TRUCK WITH 16-LITER ENGINE

AB Volvo's subsidiary Mack launching a

Wouldn't You Like to Test-Drive It?



WESTERN STAR TRUCKS®



The program logistics are managed by:



Western Star Trucks and Allison Transmission are glad to announce the upcoming visit of a Western Star 4900 SA - 2008 demonstrator truck. This tractor is equipped with a 54" Stratosphere sleeper cab, a 500 hp Caterpillar® - EPA 2007 certified engine and an Allison automatic transmission. Companies that would like to test-drive the truck - for free - should contact their Quebec and Atlantic Provinces Western-Star dealer or their local branch of DD-ACE, the authorized distributor of Allison transmissions in Eastern Canada.



Quebec City
2997 Watt St, Quebec City
Phone: (418) 651-5371

Montreal
10855 Côte de Liesse Rd, Dorval
Phone: (514) 839-0880
Val d'Or
1141, Des Foreurs, Val d'Or
Phone: (819) 874-2552

New Brunswick
485 Venture Dr, Moncton
Phone: (506) 855-5371
New Scotia
70, Raddell Ave., Dartmouth
Phone: (902) 465-6200

Newfoundland & Labrador
1, Panther Place, Mount Pearl
Phone: (709) 747-7341
1 West Service Rd Exit 17, TCH
Grand Falls - Windsor
Phone: (709) 489-6334

new prestige truck, Titan by Mack™ at CON-EXPO-CON/AGG. The model is developed specifically for heavy haulage and construction work and is equipped with the new 16 l Mack® MP10 engine.



The new model puts driver environment and comfort in focus and is designed to handle the tough conditions encountered in mining, forestry and heavy construction. Major emphasis was also placed on reducing noise levels and the vibrations that arise in heavy work.

The truck is equipped with a new 16 l engine, the Mack MP10, which is available in 515-, 565- and 605-hp ratings and is approved in accordance with the EPA '07 emissions standards.

Delivery of the Titan by Mack to customers is expected to begin in late 2008.

Source: AB Volvo

LEEBOY 705 MOTOR GRADER WITH JOYSTICK CONTROLS

The 705 Motor Grader by VT LeeBoy, Inc., was unveiled at CONEXPO-CON/AGG featuring joystick control of grader functions integral to the operator's chair in a 7,7 t unit with a 3 m sliding and tilting moldboard.

The 705 is powered by a 117 hp Caterpillar Tier 3 diesel engine and makes grading smooth at high and slow speeds with its 6-speed forward and 3-speed reverse power shift



hydrostatic transmission. Infinitely variable speeds up to 32 km/h are achievable in forward. A load sensing variable displacement pump provides superior machine control and enhanced performance and efficiency. The 705 features wet disc brakes and a hydraulic release fail safe parking brake.

Right and left hand joysticks integral to the adjustable suspension operator's chair control all grader functions. The control console has touch pad color screen with

basic instrumentation and menu-driven diagnostic capabilities.

Maneuverability of the 705 motor grader is enhanced with 18° right or left articulation behind the cab. This gives the 705 an outside turning radius of 5,3 m. Grading functions are assisted with front axle oscillation of 20°, front wheel lean of 15° and front wheel steering angle of 50°.

Source: VT LeeBoy, Inc.

THE WORLD'S HARDEST STEEL PLATE

SSAB Oxelösund is launching the world's hardest quenched and tempered steel plate with a maximum hardness of 700 Brinell. It aims to replace traditional wear plates by offering higher hardness and better cost-performance. Today, those products are mainly hard-faced overlay plates, hard facing and high chrome white iron. HARDOX® Extreme will achieve a strong position in structures exposed to extreme wear, such as in the mining, cement, and brick-making industries.



"For many customers, quartz is the mineral that causes the highest wear in machines. HARDOX Extreme can be an alternative for them, as it is the first wear plate that can compete with the most advanced hard-

The King of Rodeo is Canadian



Nick Market of Windsor, Ontario, beat four other finalists to win the title of Case Rodeo Series North American Champion. Along with the title, Mr. Market was awarded the grand prize – a 50th Anniversary limited-edition Case 580 Super M Series 2 loader/backhoe.

From a field of 4200 operators from across the United States and Canada, Nick Market joined top five finalists Jeff Coble, Dennis Drake, Corey Jessen and Tim Reynolds on March 11 at CONEXPO-CON/AGG for the Championship competition.

"Nick is a superb loader/backhoe operator – the best of the best in North America," said Jim Hughes, brand marketing manager, Case Construction Equipment, and manager of the Case Rodeo Series. "Even under the pressure of some stiff competition and hundreds of spectators watching him, Nick never wavered. That's the sign of a true champion."

An equipment operator with Sherway Contracting in Windsor, Nick Market led the pack of finalists with a score of 340,37. He has been operating loader/backhoes for nearly 30 years and won the Case rodeo event held at Kucera Farm Supply in Alinston, Ontario.

"The skills demonstrated by the 77 loader/backhoe operators were impressive," said Jim Hughes, "We crowned Nick Market as the Case Rodeo Series North American Champion, but we also honor all 77 local rodeo winners for their expertise."

The rodeo completes Case's year-long celebration of the 50th anniversary of the first factory-integrated tractor loader/backhoe manufactured by Case.

Source: Case Construction Equipment

faced overlay plates," says Anders Skirfors, Product Development manager at SSAB Oxelösund AB.

The steel has been in production and under test since the beginning of 2004. Several field tests have been conducted with a group of selected customers, where HARDOX Extreme has challenged competing products such as Ni-hards, overlays and chromium rich castings. The tests have shown very good results.

The target applications for HARDOX Extreme are mainly various types of liner plates within the mining, sand, cement, concrete and brick-making industries.

Source: SSAB Oxelösund AB

NEW HOLLAND PREMIERES THE NEXT GENERATION OF LOADER BACKHOES

Making their debut at CONEXPO-CON/AGG, the new B95B and B95BTC loader/backhoes from New Holland Construction drew lots of attention from visitors.



The B95B and B95BTC feature a sloped, flip-up hood for easier engine access and increased visibility and a curved boom design for additional clearance when transporting.

The most noticeable new feature of the

loader backhoe line is the curved boom where design innovation has increased efficiency and improved performance. The curved boom provides lower transport height and increased breakout force. Continuing with New Holland's tradition of narrow boom design, the new boom allows best-in-class visibility of the bucket, the trench and near-by co-workers throughout its full operating range. Also in line with New Holland tradition, the machine's loader offers superior breakout force. This, combined with the machine's new backhoe features and increased horsepower, ensures maximum productivity.

Source: New Holland Construction

ROADTEC SHUTTLEBUGGY® MTV'S PROVEN TO ELIMINATE CRUCIAL 7°C SPAN



Pavement lifespan tests as they relate to temperature segregation during the paving process have shown that a temperature differential of less than 7°C in the mat behind the paver are key to even compaction and therefore pavement durability. The studies revealed that pavements constructed with a mix that varies in temperature less than 7°C can be compacted

to even densities and last twice as long as those built with temperature segregated mixes (Washington State DOT, Tech Notes 1995).

Infrared imaging behind the ShuttleBuggy MTV has shown in test conducted in the U.S. as well as in Europe that the machine easily and consistently remixes to achieve temperature differential below the 7°C threshold. This proven performance has led not only to the machine's popularity all over the world but also allows contractors to earn smoothness bonus and win quality awards. For example, the 2007 pavement quality award recipients in the U.S. state of Arkansas all used the Roadtec ShuttleBuggy MTV on their winning projects.

Source: Roadtec

NEW LEEBOY 9000 RUBBER TIRE PAVER

VT LeeBoy, Inc. introduced its 9000 Asphalt Paver, a 15 000 kg paver featuring a maneuverable, rubber tire design and an 2,4 m electrically-heated screed system.

This high production rubber tire asphalt paver is powered by a 173 hp Caterpillar



Tier 3 diesel engine, which provides the power to push larger tandem axle trucks with

Erican Construction Recycles Former Concrete Waste With AwJaw Bucket Crusher

Due to the high clay content of the soil in the Regina, Saskatchewan area aggregate must be trucked in from outside. For Regina based Heavy Foundation Specialists, Erican Construction Ltd., this problem was doubly frustrating because they were land-filling waste concrete from foundation work. But with the use of an AwJaw Bucket Crusher Erican Construction has turned concrete waste into a secondary aggregate supply for new construction jobs while reducing landfill waste.

The AwJaw Bucket Crusher, distributed by The St. George Company, turns an excavator into a professional crush plant. Inside the

bucket, massive jaws reduce concrete, brick or rock into aggregate from 6" minus down to 3/4" minus. The bucket's wide jaw open design allows it to handle concrete with rebar, wire mesh and other foreign objects with ease.

The St. George Company Ltd. has been distributing innovative products for construction, forestry and agriculture for 25 years. Headquartered in Paris, Ont., with a satellite office in Foremost, Alberta, The St. George Company Ltd provides sales and service for a



range of AwJaw Bucket Crushers to fit most excavators.

Source: The St. George Company Ltd.
Nick Quail, 1-800-461-4299

ease. The tire system is comprised of two large heavy-duty low pressure rear 19 x 29.5 drive tires. The 12 x 22 solid rubber front tandem steering bogie wheels oscillate to improve mat quality by overriding roadbed irregularities.

Source: VT LeeBoy, Inc.

YOKOHAMA TIRE CORPORATION EXPANDS OFF-THE-ROAD TIRE SIZES

Yokohama Tire Corporation is debuting four new sizes for its off-the-road tire models. The RT41™, launched in late 2007 with a 26.5R25 offering, is now available in 29.5R25 and 23.5R25 sizes. The RB31™, on the market since 1997 will count two new sizes,

26.5R25 and 29.5R25, to the currently available 17.5R25, 20.5R25 and 23.5R25 lineup.



Both tires feature Yokohama's flexible OTR belt wire and four layers of steel belts, the industry's strongest belt package, that "does everything from improve wear and durability

Terex Hired Mike Rowe of Discovery Channel's Dirty Jobs for the Show

Visitors to the Terex booth at CONEXPO-CON/AGG had the opportunity to meet Mike Rowe, creator and star of the Discovery Channel® hit series "Dirty Jobs". By serving as an apprentice to everyday men and women who perform the jobs no one else wants, Mike Rowe has found a hands-on way to pay tribute to a nation of unsung heroes, and get more than a few laughs along the way.

The company also showcased the new Genie® STM-60 and STM-65 Trax Telescopic Booms that offer operators exceptional traction and flotation for easy maneuvering around jobsites, even on challenging terrain.

The Genie® GTHM-5519 Telehandler has been re-engineered to improve performance and serviceability while keeping the machine affordable and simple to use.

Terex Construction took full advantage of the opportunity to demonstrate the significant benefits of the unique independent front suspension system and integral wet disc brakes on the new Terex® TA30 articulated hauler.

Terex also showed its new TA2S site dumper for the first time. It will replace the PS2000 when it enters production later this year.

In addition, the new TL210 mid-sized wheel loader has received a new 162 hp turbo diesel engine and a technologically advanced "hydrotransmatic" drive system.

The Terex® Demag AC 100/4 all-terrain crane was displayed for the first time in the U.S. market.

The new Terex® HC230 crawler crane is an innovative machine in the medium lifting capacity range, offering 230 t of lifting capacity at a reach of 4.3 m, when equipped with a 77 SI boom/ Hammerhead tip. Terex® Comedil showcased the new range of Flat Top tower cranes, the medium CTT series, which is placed in between the already successful City and Big series.

With a lifting capacity of 109 t, the new Terex® RT1120 is currently one of the most powerful rough-terrain cranes in the U.S. market. The new stinger-class Terex® BT4792 truck crane has lifting capacity of 21 300 kg and total weight of 27 200 kg.

Terex Mining also unveiled the R30C hydraulic track drill from Terex® Reedrill and the RC5 hammer from Terex® Halco.

The Terex Roadbuilding group featured the latest advancements for Terex® asphalt plant equipment, including the latest plant options available for producing warm mix asphalt.

Making their tradeshow debut were the PR165 and PR330 cold planers. Also, the Terex® CR552 mainline paver equipped with the new VersaScreed 210 front extendable screed.

The Terex® RS350 reclaimer/stabilizer with its new operator's cab and the Terex® front discharge transit-mix truck on display featuring the exclusive Total Control System were also on display.

Source: Terex Corporation

to increase stability," according to Gary Nash, director of OTR sales at Yokohama.

Source: Yokohama Tire Corporation

VOLVO CONSTRUCTION EQUIPMENT'S L220F HYBRID WHEEL LOADER

Volvo Construction Equipment unveiled a pre-production prototype of its L220F Hybrid wheel loader. Offering more power, better performance and a 10% reduction in fuel consumption, the L220F Hybrid's increased efficiency and cost saving potential will offer customers a much greater return on their investment over the lifecycle of the machine.



Leveraging its position as the world's largest manufacturer of heavy-duty diesel engines in the 9 to 18-liter class, the Volvo L220F Hybrid's parallel hybrid technology has been developed within the Volvo Group and uses as its platform the proven and reliable D12 engine. It features an Integrated Starter Generator, fitted between the engine and the transmission, coupled to a lithium-ion battery. The ISG allows the diesel engine to be turned off and restarted almost instantly – thus eliminating idling – and also boosting the power of the engine when needed – such as when entering a pile of material.

Source: Volvo Construction Equipment

RITCHIE BROS. MARKS 50-YEAR MILESTONE IN LAS VEGAS



Ritchie Bros. Auctioneers marked its 50-year milestone in Las Vegas while conducting its first unreserved auction at its new Las Vegas, Nevada, auction site March 13-14, combined with an auction in nearby Henderson, Nevada, on March 15, 2008.

Ritchie Bros. CEO Peter Blake presented Dave Ritchie, one of the founders of Ritchie Bros. Auctioneers, with a gold 50-year anniversary pin during a mid-morning ceremony in front of the auction crowd.

Source: Ritchie Bros. Auctioneers

CLICK IT! SAFETY CAMPAIGN TAKES OFF

The recently launched "Click It!" safety campaign which features stickers encouraging all users of boom type platforms to wear a full body harness with a short lanyard attached to a suitable anchor point has found acceptance with North American manufacturers and rental companies alike.



Sponsored by Aerial Work Platform Training (AWPT), the campaign has been adopted by major rental companies including NES

Rentals and Sunbelt Rentals and manufacturers including Skyjack. All companies have agreed to place the "Click It!" stickers on all boom-type platforms they rent, sell or manufacture.

If your organization is interested in obtaining "Click It!" stickers for your machines or copies of AWPT's "Technical Guidance Note AWPT H1" that provides information on their recommendation for the proper use of harnesses and lanyards on different types of aerial platforms, visit www.awpt.org.

Source: Aerial Work Platform Training

IPAF CELEBRATES 25 YEARS OF EXCELLENCE

Founded in 1983, the International Powered Access Federation (IPAF) is a not-for-profit members' organization that represents the interests of manufacturers, distributors, and rental and training companies. It serves as a forum for all active in the world of powered access. Aerial Work Platform Training (AWPT) is the North American subsidiary of IPAF.

Through the years, IPAF has become a strong agent of change in developing and

promoting best practice. It has lobbied for and played a key role in promoting many of the now-established design, safety and testing procedures in the powered access industry.

The work of IPAF falls under specialist committees dedicated to: training, rentals, mast climbing work platforms, telescopic handlers, manufacturers' technical committee and powered access interest group.

Source: International Powered Access Federation



VEHICLE SCALE SOFTWARE OFFERS POWERFUL, AFFORDABLE WAY TO MANAGE DATA

Mettler Toledo has launched OverDrive™ 1st Vehicle Software, an easy-to-learn, easy-to-use, complete vehicle scale management system. The new technology, designed for basic vehicle weighing applications, allows



CISOLIFT



BIL-JAX 3522A / 43' Working Height
Price: 23 400\$ (FOB)



BIL-JAX 4527A / 51' Working Height
Price: 29 250\$ (FOB)



BIL-JAX 5533A / 61' Working Height
Price: 37 950\$ (FOB)

*Mechanical inspection done, READY TO WORK

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users to control scale management via an Ethernet connection.

Requiring no proprietary hardware, Over-Drive 1st is widely compatible with a range of competitive scales and scale indicators, and can be integrated easily and seamlessly via a standard serial connection, or by way of a Mettler Toledo JagXtreme controller.



The software delivers mission critical features such as the ability to control one scale in addition to manual scales. An easy

to use and easy to understand transaction screen highlights database-driven tables for account, carrier, company, container, contract, driver, permit, product, surcharge, tax, trailer, vehicle, four additional extended tables and two generic text entry fields, and two numeric entry fields. The software enables users to utilize multi-user applications, such as transaction maintenance, a weights and measures log and database imports and exports in a networkable format.

Source: Mettler Toledo

BOMAG BC462EB SOIL COMPACTOR

BOMAG's new BC462EB soil compactor combines the proven designs of refuse compactors with single-drum soil compactors functionality. For outstanding gradeability and traction, the BC462EB features four-wheel hydrostatic drive just like that found on a BOMAG refuse compactor. And in contrast

to competitive machines, it features a sealed frame to keep soil from entering the frame or engine compartment. It is also equipped with a scraper bar system designed to keep



the wheels free of dirt and debris for better compaction. The new class of compactor is well-suited to medium- and large-scale dirt compaction projects.

Source: BOMAG

DEERE UNVEILS THE HIGH-SPEED DOZER

John Deere has unveiled the first new machine form the construction industry has seen in decades, the 764 High-Speed Dozer (HSD), a unit that will give operators the ability to do more in less time.



This innovative rubber-tracked dozer combines the speed of a grader with the flotation of a crawler dozer. As a result, operators can perform grading and moderate dozing at about double the speed of a similarly sized crawler. They will also have the ability to travel 18 mph across a job site without damaging pavement.

Case Unveils 1221E Wheel Loader

At CONEXPO-CON/AGG, Case Construction Equipment announced the expansion of its E Series wheel loader line with the addition of the 1221E wheel loader.

Ideally suited for sand and gravel, stone and aggregates, roads and bridges and

site preparation applications, the Case 1221E wheel loader has an operating weight of 30 t and a standard payload capacity of 5,7 m³.

The Case 1221E wheel loader is powered by a 320 hp Tier III-certified Cummins engine.

The large, isolation-mounted cab on the 1221E is among the quietest in the industry, with an operator sound level of 72 dBA. Floor-to-ceiling glass in the front, along with a sloped rear engine compartment, gives the operator a panoramic view both forward and to the rear. The standard single-lever joystick loader control incorporates a forward-neutral-reverse quick shuttle switch and transmission downshift button.

An option on the 1221E, Ride Control™ provides improved productivity through excellent material retention while reducing shock loads on the machine and operator. Ride Control can be set for full-time mode or in auto mode, which activates when roading the wheel loader above 10 km/h.

The 1221E comes in traditional Z-bar and XR linkage configurations. For applications requiring more dump clearance, such as loading materials into high sided trucks, the 1221E XR has high lift throughout the complete cycle.

Source: Case Construction Equipment



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The 764 HSD weighs in at 14,5 t and is powered by a Tier 3 John Deere PowerTech™ engine rated at 200 hp.

The entire powertrain system works together to distribute power to the tracks for maximum push while avoiding spin. When the machine articulates, the inside and outside track speeds automatically change to improve turning. The hydrostatic transmission also adjusts to deliver the maximum power and speed to the tracks under varying load conditions.

The 764's undercarriage has been designed as a complete unit for maximum life and performance. It excels in soft conditions due to its flotation and provides a smooth ride at higher speeds to produce a high-quality grade. Unlike long steel tracks, there are no track segments to make the blade bounce.

The track sprockets are designed to automatically shed material. Ample room between the track and the roller frame allows for easy cleaning during extremely muddy applications.

Source: Deere & Company

Official Launch of Intermat 2009

Intermat will be held next year, from April 20 - 25 in Paris, France.

The show promises to exceed expectations with a total of over 130 000 m² in exhibition space already reserved. Pre-registered exhibitors include all of the industry's global leaders.



As a complement to the sectors traditionally included in the show, Intermat 2009 will be adding separate areas for: Mines, Quarries, Drilling and Boring – the agenda includes quarry visits prior to the show; Equipment, Components and Accessories; and Handling and Logistics.

As usual, a full 30 000 m² of outdoors demonstration space called Paris Demo gives exhibitors the opportunity to show visitors how their machinery performs in real-life conditions.

Source: Intermat, www.intermat.fr

Western Star Builds Extreme-Duty Truck

At CONEXPO-CON/AGG, Western Star Trucks showed its new Western Star® 6900 XD, built in collaboration J&J Truck Bodies & Trailers for extreme-duty mining and quarry applications. The Western Star® 6900 XD is paired with a heavy-duty dump body from J&J to haul loads up to 36,3 t.

The 6900 XD is designed to minimize cost per ton of material hauled and maximize shift productivity through efficient fuel consumption, fast cycle times and superior operator comfort.

Key specifications include 50 000 kg planetary drive axles, a Detroit Diesel Series 60® engine with Tier 3 off-highway emission ratings, a fully automatic Allison 4500 RDS transmission, and purpose built dump box. With this configuration, the truck is a cost effective, turnkey solution for mining and quarry customers.

"Western Star is known for its rugged construction and durability, and this is the first time we've offered a body program that caters specifically to the extreme-duty operator," said Chuck Whitehead, vocational

segment manager for Western Star Trucks.

The 6900 XD can be up to 35% more fuel efficient than traditional off-road haulers



when haul distances exceed one mile. The superior fuel economy, combined with stable loaded top speeds of more than 65 km/h in the proper application, makes this truck unmatched in cycle time efficiency.

"Our bodies are an ideal complement to Western Star vocational and extreme-duty trucks," said Bill Riggs, president of J&J Truck Bodies. "Together, we now offer customers the ability to carry heavier payloads and conquer the toughest road terrain."

Optional configurations include higher ca-

capacity dump bodies and right hand drive for export applications. Visitors to the Western Star booth at CONEXPO-CON/AGG had the



opportunity to see one of the latter, built for export to South Africa.

Founded in 1958, J&J Truck Bodies & Trailers, a division of Somerset Welding and Steel, Inc. specializes in building aluminum and steel dump bodies and trailers for light, medium, and heavy-duty trucks and tractors. In addition, the company manufactures transfer trailers that are primarily used for hauling solid waste, mulch, wood chips and other similar materials.

Source: Daimler Trucks North America LLC

NAPA Publishes New Titles

WARM-MIX ASPHALT: BEST PRACTICES

The National Asphalt Pavement Association announces the publication of a new technical document, Warm-Mix Asphalt: Best Practices. This 44-page document presents the state of the practice for warm-mix asphalt in the U.S. at this time.

Included in the publication are an overview of the various warm-mix asphalt (WMA) technologies currently in use or under evaluation in the U.S., an explanation of the benefits of WMA including both engineering advantages and improvements in environmental factors and working conditions, and a description of best practices for production and lay-down. This document is designed to be used by both agency and contractor personnel. In preparing the publication, information was obtained from a combination of literature reviews, the FHWA International Scanning Tour on WMA, knowledgeable experts, and material suppliers. A comprehensive bibliography is included.

ENERGY CONSERVATION IN HOT-MIX ASPHALT PRODUCTION

The National Asphalt Pavement Association announces the publication of a new technical document, Energy Conservation in Hot-Mix Asphalt Production. This 32-page document presents opportunities for energy conservation in the HMA production process.

The production of any construction material is energy-intensive, and hot-mix asphalt is no exception. Energy costs constitute a significant percentage of the total cost of HMA production, so conserving energy can improve the bottom line for hot-mix producers. The new NAPA publication provides methods to calculate return on equipment investments and other strategies that have the potential to reduce energy-related costs.

101 IDEAS TO REDUCE COSTS AND ENHANCE REVENUE

The National Asphalt Pavement Association announces the publication of a new technical document, 101 Ideas to Reduce Costs and Enhance Revenue – Give Your Asphalt Production and Paving Company an Edge in the Market-place.

This 32-page publication is based on an educational session that was presented at NAPA's 2008 Annual Meeting in Phoenix, Arizona. At this session, executives from several hot-mix asphalt production companies presented some of the innovative ways that their companies and others have improved the bottom line for their firms. The "101 Ideas" of the title are presented in a narrative format, in a way that emphasizes the savings that can be realized through implementation of the ideas. The original list of ideas is also included, along with ideas for enhancing on-the-job safety.

BOLD INITIATIVES IN THE ASPHALT INDUSTRY

The National Asphalt Pavement Association announces the publication of a new document, Bold Initiatives in the Asphalt Industry To Safeguard Health, Safety, and the Environment.

The author, NAPA president Mike Acott, was asked to present a paper at an international asphalt conference. His subject was the ongoing approach used by the asphalt industry in the U.S. on complex environmental, health, and safety issues. That paper has been enhanced with additional text and illustrations for this publication.

The 24-page document describes the asphalt industry's strategies that have been cited by government agencies as a model for other industries. Several examples of milestone accomplishments are summarized in the publication. Emerging issues and future challenges are also identified.

Source: The National Asphalt Pavement Association, www.hotmix.org

Appointments

Brent Fisher, president of **Simson Maxwell**, is pleased to announce the appointment of **Denis Gougeon**, to the position of vice president, Eastern Region, effective February 20th, 2008.

Denis Gougeon has been a member of Simson Maxwell's management team since 2004 as Regional Manager, Eastern Canada and has over 30 years experience within the power generation and engine distribution industries. He has successfully developed and grown the Simson Maxwell Eastern Canada business in Ontario and Quebec over the past 4 years. Simson-Maxwell will be looking to Denis Gougeon for continued leadership and experience in the future as it grows and prospers across Canada.

Simson Maxwell is the leading manufacturer, supplier and service provider of Power Generation and Industrial Engine products and services in the Canadian industrial and commercial market places



André Bouchard, president of **Supermetal Structures Inc.**, is pleased to announce the return of **Jean-François Blouin, Eng.**, to the St-Romuald head office and his nomination as general manager of Supermetal Structures, effective March 10.

Jean-François Blouin has been one of the main architects of Supermetal's Alberta breakthrough. During tenure in Edmonton, the company reached unprecedented success in sales and client satisfaction in Western Canada. It was recently awarded the contract to fabricate and erect the structural steel for the United Horsemen of Alberta's Racing Entertainment Centre near Calgary, as well as four buildings at the Epcor/TransAlta-owned, Keephills 3 coal-fired generating facility.

Knowing the Alberta market better than anyone else, Blouin is well placed to support the Western Division from a distance and help it achieve its objectives. As well, his new position will have him supervising all contracts in North America and overseeing business development in general.

Supermetal Structures is a long-established Canadian-owned company with facilities in Quebec and Alberta and clients all across North America. Renowned for its premium service, Supermetal specializes in the fabrication and erection of structural steel for industrial and commercial projects.

Source: Supermetal Structures Inc.





International Roofing Expo 2008

The roofing industry's most highly anticipated annual event was again held at the Las Vegas Convention Center, squeezing in between World of Concrete and CON-EXPO-CON/AGG!

As has long been the tradition, education and innovation were at the fore, with over 48 conference programs including, 17 technical, 5 workplace safety and 26 business related sessions. Many of these sessions carry NRCA/CRCA certification that contractors require for insurance and tender consideration.

Also new for 2008 was the New Product Pavillion, an excellent area highlighting the industry's newest most innovative and cost effective products since the 2007 IRE. China featured noticeably this year also, with a dedicated section showcasing their products and practices.

Another informative aspect of the IRE is the Live Demonstrations and product clinics that occur. Held on the exhibition floor in a mock-up jobsite techniques and equipment were shown off by Gaco Western, Johns Mansville and other leading industry suppliers. Fasteners, asphalt melters, tear-off and hoisting devices were all available for attendees to examine and investigate.

With so much happening in Vegas you may be forgiven for missing IRE this year, but mark February 3 - 5 on your calendar for 2009!



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Agenda

Ankomak 2008 17th Construction Machinery, Building Elements & Construction Technologies Exhibition

April 25 - 29, 2008
Yesilkoy, Istanbul, Turkey

IFAT 2008 - 15th International Trade Fair for Water - Sewage - Refuse - Recycling

May 5 - 9, 2008
Munich, Germany

INTERtunnel 2008 - 8th International Tunnelling Exhibition

May 20 - 22, 2008
Turin, Italy

Eurobitume & EAPA Congress 2008

May 21 - 23, 2008
Copenhagen, Denmark

CFMS - Canadian Fleet Maintenance Seminar

May 26 - 29, 2008
Toronto, ON Canada

The Crane Rental Association of Canada 2008 Conference

May 28 - June 1, 2008
Regina, SK Canada

International Rental Exhibition, IRE 2008

June 3 - 5, 2008
Amsterdam, The Netherlands

AORS 2008 TRADE SHOW - June 4 and 5

June 4 - 5, 2008
Walkerton, ON Canada

CTT Moscow 2008

June 17 - 21, 2008
Moscow, Russia

49th CRCA Annual Meeting and National Conference

June 18 - 21, 2008
Vancouver, BC Canada

inter airport India

September 11 - 13, 2008
New Delhi, India

CONEXPO Russia

September 15 - 18, 2008
Moscow, Russia

APEX 2008

September 17 - 19, 2008
Maastricht, The Netherlands

MINExpo® 2008

September 22 - 24, 2008
Las Vegas, NV USA

INTERROUTE&VILLE 2008

September 23 - 25, 2008
Rennes, France

Sim Congress (Société de l'industrie minière)

October 14 - 17, 2008
Limoges, France

Garden & Florist Expo 2008

October 21 - 22, 2008
Toronto, ON Canada

International Concrete Repair Institute - ICRI 2008 Fall Convention

October 29 - 31, 2008
Millennium Hotel St. Louis
St. Louis, MO USA

CamExpo 2008

November 7 - 9, 2008
Quebec City, QC Canada

Bauma China 2008

November 25 - 28, 2008
Shanghai, China

inter airport China

December 2 - 4, 2008
Beijing, China

Concrete Sawing & Drilling Association - CSDA 2009 Convention

March 3 - 7, 2009
Cancun, Mexico

World of Asphalt Show & Conference / World of Aggregates

March 9 - 12, 2009
Orlando, FL USA

EXPO Grands Travaux

April 3 - 4, 2009
Montreal, QC Canada

WasteTech 2009 6th International Trade Fair on Waste Management, Recycling and Environmental Technology

June 2 - 5, 2009
Moscow, Russia



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SEMINAR SCHEDULE:

Tuesday, May 27

- New Products for 2008
- “Shop Talk” with the TMC
- Training Sessions
- Trailer Wheel End Annual Inspection
- Does Your Organization Have a Green Plan?

Wednesday, May 28

- Heart & Stroke
- Benefits of Electronic Stability Control Systems
- S.P.I.F. – 1 to 4

Thursday, May 29

- New Safety Technology
- Fleet Security

SEMINAR HIGHLIGHTS:

- 4th Annual CFMS Golf Tournament
- Volvo “Maintenance Manager Of The Year” Award
- Chevron “Diesel Technician Of The Month” Award
- Outside Truck Display
- Silent Auction
- Trade Show
- \$3,000 in Draw Prizes!



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CONEXPO-CON/AGG 2008 and IFPE 2008 Set New Records

CONEXPO-CON/AGG 2008 and the co-located IFPE 2008 expositions have set records for attendance, exhibit space and number of exhibiting companies.

More than 144 600 industry professionals from around the world attended CONEXPO-CON/AGG 2008 and IFPE 2008 during their five-day run March 11 - 15, 2008 in Las Vegas.

CONEXPO-CON/AGG 2008 covered more than 211 966 m², taken by 2182 exhibitors, and was 21% bigger than the last show, held in 2005.

IFPE 2008 was also the largest in its history with 12 000 m² used by 469 exhibitors – a 16% increase in space compared to 2005.

International visitors from 130 countries represented 19% of total attendance. This year, the number of Canadian visitors amounted to 11 400, up from 8800 in 2005.

IFPE 2008 hosted a new exhibit pavilion sponsored by the American Gear Manufacturers Association (AGMA), welcomed back a Power Transmission Distributors Association (PTDA) pavilion, and set up a new pavilion to highlight the expanded presence of sensors at the show.

CONEXPO-CON/AGG 2008 featured a new Safety Zone of exhibits and demonstrations from industry and government groups, including the U.S. Occupational Safety and Health Administration, Mine Safety and Health Administration, National Institute of Occupational Safety and Health, and the Aerial Work Platform Training/International Powered Access Federation.

The CONEXPO-CON/AGG 2008 seminar program offered a record 130 sessions. Show education expanded in 2008 to include a special seminar on best practices for small fleet management.

IFPE 2008 also expanded its educational offerings with an electronic controls symposium added to the show's renowned Technical Conference. The conference offered a record 111 papers from industry experts from around the world.

A record number of 11 associations held annual conventions or board meetings at the shows, and overall a record number of more than 530 industry-related meetings were held in conjunction with CONEXPO-CON/AGG 2008 and IFPE 2008.

The next edition of CONEXPO-CON/AGG is scheduled to be held on March 22 - 26, 2011.







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