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Bouygues to build undersea road tunnel in Hong Kong

Through two of its subsidiaries, Dragages Hong Kong and Bouygues Travaux Publics, Bouygues Construction has won a €1.15 billion contract for the construction of a 4.2-km undersea road tunnel in Hong Kong. It is believed to be the largest design-build contract ever awarded in the country.

The project consists in constructing an undersea twin-tube tunnel, each tube with two traffic lanes and 14 m in diameter. The tunnel will link the New Territories, north of Hong Kong, to Lantau Island, where the international airport is located. It will be bored 50 m below sea level, which will constitute a record depth for Bouygues Construction. Two tunnel boring machines (TBMs) – rotary drilling machines for excavating and building the structure – will be used.

The two tunnel tubes will be connected every 100 m by 42 cross passages. Ground-freezing technology will be used to provide a watertight environment to enable these passages to be bored.

The project will entail working in an environment in which pressure is high (over 5 bar). Maintenance operations, particularly with respect to the cutting heads of the TBMs, will be carried out by teams of divers who will live in a hyperbaric base camp for four weeks at a time to allow them to deal with any issue that may arise at any time. This new method of organisation avoids them having to undergo decompression too frequently.

The operation also includes the construction of two cut-and-cover approach tunnels of 530 and 670 m respectively.

The project will be carried out in compliance with strict environmental standards with regard to marine ecology, water quality, noise impact and waste management. The two ventilation buildings powered by wind energy that will be constructed to the north and south of the tunnel have been designed to qualify for BEAM Plus Gold rating. BEAM environmental certification is awarded by the Hong Kong authorities.

Two innovations developed by the Bouygues Construction Research & Development Department will be used on the project in order to reduce the need for manual operations in hyperbaric conditions. Mobydic, a system of sensors incorporated into the disc cutters in the heads of the TBMs, will make it possible to permanently monitor the state of wear of the cutters while allowing real-time geological mapping of rock faces. Snake, a remote-controlled exploration arm equipped with a high-pressure jet, will clean the TBM heads and eliminate clogging to enable them to be inspected.

The works are scheduled to take more than five years (63 months), with the handover scheduled for the end of 2018. More than 1,000 employees are expected to be working on the project at peak periods.

Atkins designs Shenyang’s new landmark tower

Atkins is designing the Baoneng Shenyang Global Financial Centre in Shenyang, China, a mixed-use development crowned by two towers of 565 m and 328 m respectively. Upon completion, the 565-m tower is set to be the tallest building in Shenyang.

The towers occupy a prestigious site to the south of the iconic TV tower, and form part of a master plan covering an area of 58.5 ha along the famous ‘Golden Corridor’ Youth Street in the central business district. In addition to the towers, the complex will feature five luxury high-rise residential towers each approximately 200 m high, above a large lifestyle-culturally themed life style shopping mall.

Atkins has been commissioned by the client, Baoneng Real Estate Development Ltd, for the architectural design of the two tall towers including concept design, schematic design, preliminary design and facade design development. The 565-m tower will contain 111 floors, accommodating class A offices and other amenities including a luxury executive club at the top. The 328-m tower will have 34 floors of office with a 320-room five-star luxury hotel above.

Construction of the complex has started, and the 565-m tower named ‘Pearl of the North’ is due to be completed in 2018.

Shantui and Manitowoc terminate joint venture agreement

Shantui Investment Co Ltd has terminated its agreement with Manitowoc’s subsidiary, Manitowoc Crane Group Asia Pte Ltd, to enter into a joint venture contract with respect to the truck crane business currently operated as Manitowoc Dong Yue Heavy Machinery Co Ltd. Shantui cited China’s economic restructuring and the sharp decline in the construction machinery market in China, which have adversely impacted Shantui, have affected governmental investment policies and investment ideas in the construction industry, and which in turn have led to delays in obtaining the necessary governmental approvals for the joint venture.

“We are disappointed with Shantui’s decision and the fact that the Chinese government did not act to timely approve our potential joint venture as we believed that there was enormous potential presented by the successful collaboration of Manitowoc and Shantui in the truck crane industry,” said Glen E. Tellock, Manitowoc’s chairman and CEO. “In the meantime, we will evaluate our options with our current partner, Tai’an Taishan Heavy Industry Investment Co Ltd, with respect to the future of the Manitowoc Dong Yue business.”
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Leighton to build super luxury residential project in India

Leighton Welspun Contractors, part of the Leighton Asia, India and Offshore Group, has won the main contract to build a super luxury residential development ‘The Camellia’ for DLF in Gurgaon, India, valued at A$246 million. It will occupy a site area of approximately 18 acres and a built up area of 406,000 sq m. The project includes the building of nine tower blocks of between 19 and 38 floors with three continuous basement levels, which together will house 431 apartments, including 14 penthouses.

Construction will involve a mixture of traditional RCC frames, post tensioned slabs and external GRC structures. Landscaping will include a 1-acre lake and a 6,000 sq m deluxe clubhouse facility with an auditorium, pool and gymnasium. The project scope also encompasses fit-out works to a number of apartments and the management and logistics support for the balance of customer fit-out works. Leighton Welspun and DLF have committed to enhance facilities for the workforce and will provide a dedicated Strive for LIFE (Leighton Incident Free Environment) Training Centre to maximise the education of safety work practices for the workers.

The contract is set to commence in the third quarter of 2013 and will be completed by the third quarter of 2017.

AECOM wins major contracts in Qatar

AECOM has been selected to provide design consultancy and construction supervision services for the Al Wukrah Stadium and Precinct for the 2022 FIFA World Cup Qatar. The Qatar 2022 Supreme Committee has appointed AECOM, in association with Zaha Hadid Architects, as the design consultant for the project. Al Wukrah will serve as a host city for a 2022 FIFA World Cup stadium and precinct, and is located approximately 12 miles south of Doha. It is one of the oldest inhabited areas in Qatar, with a rich cultural heritage evidenced by its traditional Islamic architecture, historical buildings, distinctive mosques and archaeological sites.

The stadium will have a tournament capacity of 45,000 spectators during the games and, by using modular best practice design, the number will be reduced to 20,000 spectators for the legacy programme in Qatar. Another important element of the design project will be the integration of cooling-technology systems with climate-control requirements for renewable energy production.

The vision set by the Qatar 2022 Supreme Committee is one that embraces the cultural heritage of the host city and the adjacent historical Qatari settlement of Al Wukair. Incorporating this identity will be a crucial part of the stadium design and enhancing the fan experience. Work on the project is set to begin immediately.

In addition, AECOM has been awarded a US$148-million, three-year contract to provide construction-supervision and design-review services for the portion of the Doha Expressway system in Qatar known as Group 7. The new dual highway will link the cities of Al Khor and Mesaieed. The programme covers the creation of a 105-mile expressway, which will help facilitate movement of sea freight into and out of the New Port Project in Doha as well as ease the movement of trucks and delivery vehicles around the city. The project will also feature foot and cycle paths, as well as a provision for a long-distance rail corridor. Furthermore, approximately 21 main free-flow junctions will be required, along with a number of priority-controlled junctions and private accesses.

Holcim to simplify group structure in India

Holcim intends to streamline the ownership structure of its operations in India in order to strengthen the existing platform and create value for all stakeholders. Through intragroup restructuring, Holcim will increase its shareholding in Ambuja Cements Ltd to 61.39 percent and Ambuja in turn will acquire Holcim’s 50.01 percent stake in ACC Ltd. Both Ambuja and ACC will continue to operate as separate entities with their own brands and go-to-market strategies. However, the restructuring will allow for closer back-end cooperation between the companies as well as simplify the group structure.

Ambuja and Holcim have agreed that the transaction will be effected through a merger of Holcim India Private Ltd (HIPL), a wholly owned financial holding subsidiary, with Ambuja. HIPL currently directly holds a 9.76 percent stake in Ambuja and a 50.01 percent stake in ACC. In a two-stage deal, Ambuja will first acquire, through a purchase, a 24 percent stake in HIPL for a cash consideration of INR35,000 million, followed by a stock merger between HIPL and Ambuja. As part of the merger, Holcim will receive 584 million new equity shares of Ambuja resulting in an increase of its ownership in Ambuja from the current 50.55 percent to 61.39 percent.

In addition, Holcim is committing to the Marwar Mundwa expansion project in north central India with an overall capacity of 4.5 mtpa. Holcim is also evaluating additional brown and greenfield investment proposals, such as in ACC Tikaria and Ametha, and will continue to look for opportunities to further optimise its group structure in India.

“This transaction further improves Holcim’s holding structure in India, strengthens the platform for future growth and is expected to generate synergy benefits of INR9,000 million per annum. These benefits, which will be realised in a phased manner over two years, will be shared by both companies equally through supply chain, shared services and fixed costs optimisation. The transaction is expected to be neutral on Holcim’s EPS in the first full year following the completion of the transaction and accretive thereafter,” said Bernard Fontana, CEO of Holcim.

Parsons joint venture awarded contracts for Riyadh Metro in Saudi Arabia

A Parsons-led joint venture (JV) has been awarded two of three programme management consultancy (PMC) contracts by ArRiyadh Development Authority (ADA) for the greenfield Riyadh Metro project. Riyadh Metro Transit Consultants, a JV between Parsons, Egis and Systra, will manage packages 1 and 2 of the new Riyadh Metro system. Scheduled for completion in 60 months, the system will comprise six lines and 131 stations with a total length of 106 miles.

“This is the largest design-build metro programme initiated at one time, and we look forward to contributing to its successful delivery. The world-class public transport system will enhance the lives of the people in Riyadh over the next five years,” said Guy Mehula, Parsons MENA+ president.
From everyday boring applications to demanding jobsites, few compete with the Vermeer D24x40 Series II Navigator Horizontal Directional Drill. Powered by a 125 hp (93.2 kW) John Deere 4045H Tier 3 diesel engine, the D24x40 Series II offers 4200 ft-lb (5694.4 Nm) of rotational torque and 24,000 lb (107 kN) of thrust/pullback force for performance in a wide range of bores. The exceptional high torque and pullback force is combined with an onboard 50 gpm (189.3 L/min) variable flow mud pump. Coupled with the MX240 modular drilling fluid system, this combination is equipped to provide a reliable supply of drilling fluid for larger-diameter and long-distance HDD applications.
Logistics centre

Liebherr is building a new logistics centre near Kirchdorf an der Iller, Baden-Württemberg, Germany. When completed, it will be the point from which spare parts for Liebherr earthmoving machinery will be supplied around the world. In the long term, spare parts logistics for the group's other construction machinery divisions will also be based here, according to Liebherr.

The first building extension phase is planned to be completed in the third quarter of 2014. This phase covers site development, erection of a logistics warehouse over an area of approximately 47,000 sq m and the construction of a separate administrative building. The site is expected to be operational within the third quarter of 2015. The investment for the first extension phase is over €100 million.

In the final extension phase, Liebherr will have a warehouse area of about 170,000 sq m and an administrative building covering an area of 4,500 sq m on the 360,000 sq m site.

Liebherr said several factors were decisive in selecting the location of the facility. Among them were the proximity of the A7 autobahn and the available area for further expansion. Another important factor was the large number of Liebherr construction machinery plants in southern Germany, Austria and France.

For efficient storage of the spare parts, a high-bay store with 60,000 spaces for pallets and a height of about 38 m will be built. In total, the warehouse will offer an area of 47,000 sq m to store spare parts. For logistics on the premises, there will also be an innovative 29-m-high container warehouse for 122,000 containers and a potential goods handling output of 3,500 containers per hour. In the remaining 20-m-high part of the building, provision is to be made for manual storage areas with 25,000 pallet spaces and a storage zone as well as workspaces for customer-specific consignment, packaging and dispatch.

Component facility

Liebherr-Components Biberach GmbH is building an additional plant in Biberach an der Riss, Baden-Württemberg. The development and manufacture of switchgear as well as electric motors and generators, currently functions of the company's existing factory in Biberach, are to be relocated to the new site. With this new branch, Liebherr-Components Biberach GmbH will have the additional capacity necessary to meet the growing demand for these products in the long term.

Measuring 14.5 ha, the new site will initially have two production halls built on it, each with a surface area of over 10,000 sq m. Another building that combines the two halls will offer a floor space of about 4,500 sq m for a showroom and communal facilities, among other things. Moreover, an office building with four floors and a usable area of over 7,200 sq m will be constructed. There are also plans for a combined heat and power plant to cover the basic energy requirements for the production halls. Capacities to extend the factory have already been taken account of in the site and building plans.

The branch is scheduled to commence production by the end of 2014. According to current planning, investment in the building project is expected to amount to €50 million. For the development and manufacture of switchgear as well as electric motors and generators, Liebherr-Components Biberach GmbH employs about 150 staff at present who will also move to the new site. In the long term, the number of employees in these areas is expected to increase.

Liebherr-Components Biberach GmbH is part of Liebherr Group's components division. The company develops and produces high-quality, high-performance components for drive system technology such as large diameter bearings, gearboxes and rope winches, electric machines and switchgear. The division brings together development and manufacturing expertise for the components and systems of drive system and control technology. Not only are these used in Liebherr machines, they are also designed and manufactured for customers outside the group.

Putzmeister appoints new CEO

Putzmeister has appointed Gerald Karch (left) as its new CEO, succeeding Norbert Scheuch who left the company after four years as CEO.

Mr Karch joined Putzmeister at the end of 2008 and was appointed to the management board in early 2010. In addition to the CEO role, he will be appointed to the board of Sany. Prior to joining Putzmeister, Mr Karch spent 14 years at German engineering company ZF Friedrichshafen, where he held various managerial positions.

CFO Renate Neumann-Schäfer and the Putzmeister management team will remain in their positions and ensure continuity in the company as well.

Vinci signs contract for Dynamo Moscow stadium

Vinci Construction Grands Projets has signed a contract with MC Dynamo, a subsidiary of VTB Bank, to build the Dynamo Moscow stadium in Russia. The project is located 5 km northwest of central Moscow. It involves the construction of a sports and entertainment venue that will include a new 27,000-seat football stadium, a 12,000-seat multi-purpose indoor arena, a 30,000 sq m shopping centre, a multiplex cinema and 730 underground parking spaces. The facade of the former stadium, dating back to the 1920s, has been partly preserved and will be incorporated into the facility's architecture.

Vinci Construction Grands Projets will develop the basic design studies and build the facility based on the building permit file drawn up by the architects, Manica Architecture (USA) and Speech Architects (Russia). Preparatory works will get underway soon with handover scheduled in the last quarter of 2017.
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US construction machinery exports down 21 percent

US construction machinery exports dropped 21 percent during the first half of 2013, with US$10.8 billion shipped to global markets compared to US$13.7 billion at midyear 2012, according to the Association of Equipment Manufacturers (AEM). The AEM off-road equipment manufacturing trade group consolidates US Commerce Department data with other sources into global trend reports for members.

Nearly all world regions recorded double-digit declines, except Central America with a double-digit gain. Exports to Europe declined 20 percent for a total US$1.4 billion, and dropped 15 percent to Canada for a total US$3.7 billion; exports to Asia decreased 24 percent to US$1.2 billion; exports to Central America gained 15 percent to US$1.2 billion, with exports to South America dropping 13 percent to US$1.9 billion; Australia/Oceania’s export purchases decreased 62 percent to US$750 million; while Africa took delivery of US$654 million worth of construction equipment, a 20-percent drop.

The top countries buying the most US-made construction machinery during the first half of 2013 were (in order): Canada (US$3.7 billion), down 15 percent; Mexico (US$1 billion), up 18 percent; Australia (US$713 million), down 63 percent; Brazil (US$513 million), up 17 percent; Chile (US$475 million), down 38 percent; Colombia ($333 million), up 13 percent; Belgium (US$330 million), down 18 percent; Peru (US$329 million), down 9 percent; South Africa (US$316 million), down 36 percent; Russia (US$269 million), down 34 percent; and China (US$243 million), down 38 percent.

SDLG excavator factory in Brazil opens

Shandong Lingong Construction Machinery Co Ltd has started its excavator production in Brazil. The SDLG-branded machines will be built in a US$10 million purpose-built assembly hall within the Volvo Group facility in Pedernearas, in the state of São Paulo.

To begin there will be four SDLG crawler excavator models produced—the LG6150E, LG6210E, LG6225E and LG6250E models, covering weight classes from 13.8 to 24.3 t. The machines will be sold to companies working in a variety of industries, but in particular in the construction, forestry, agricultural, mining and extraction sectors.

The SDLG excavators will be manufactured in line with brand’s core values, with a focus on robust and reliable design in a cost effective package. This factory will be the first SDLG production facility outside China, but will mirror the manufacturing processes in place at its main facility in Linyi, China.

Timing for the launch of Brazil-built SDLG excavators is good as there is strong demand in the country for solid machines that are cost effective solutions. SDLG machines have been sold in Brazil for a little over four years and in that time the company has established itself as one of the leading suppliers of construction equipment at the value end of the market. “Localised production will help SDLG be more flexible and responsive to its customers and dealers in the region,” said Pat Olney, president and CEO of Volvo Construction Equipment. “We’re taking advantage of The Volvo Group’s long history in Brazil to introduce an exciting new initiative with these locally built SDLG excavators.”

The production of SDLG excavators in Brazil will further increase the brand’s competitiveness by speeding up delivery times and opening up more favourable financing options for customers. SDLG will continue to operate in Brazil through its own branded organisation with its dedicated distribution network and sales force with customer support.

The Volvo Group holds a 70 percent shareholding interest of Shandong Lingong Construction Machinery Co Ltd, manufacturer of the SDLG machines and one of the world’s three largest wheel loader manufacturers. The Volvo Group facility at Pedernearas is also home to a Volvo Construction Equipment factory that manufactures wheel loaders, excavators, motor graders, articulated haulers and compactors.

Simon Cracknell joins Skyjack as business development director for Asia

Canadian manufacturer Skyjack has appointed Simon Cracknell (left) as its business development director for Asia. He will lead the company’s sales and marketing efforts in the region and will report to Charlie Patterson, managing director for the region.

Mr Cracknell has over 25 years of experience in the construction equipment sector and has spent over eight years in the aerial work platform business in general manager and senior director roles in the UK, Northern Europe and Southeast Asia. “Global expansion is an important part of Skyjacks’ growth plans. We are buoyed by recent successes in Australia and Brazil and welcome Simon as a great asset to the Skyjack team driving growth in the Asia region,” said Brad Boehler, president of Skyjack.

Skyfest in Brazil

Skyjack has also recently held an event to welcome over 150 customers at its Brazil facility in Indaiatuba, near São Paulo. Local staff and most of Skyjacks’ senior management team enjoyed a memorable evening of Brazilian hospitality in the form of ‘Skyfest’. Mr Boehler said, “Skyjack has enjoyed an enviable reputation for scissor type product, largely based on their simple reliability, quality and solid performance. That has led to a situation in 2013 where we will manufacture our 250,000th machine. A quarter of a million machines is something we are very proud of and an achievement that means we are the worlds’ leading scissor manufacturer. We look forward to expanding that reputation with our boom product.”

Adriano Battazza, general manager of Brazil, added, “In less than a year Skyjack has taken a leadership position in the market for scissor products in Brazil. For some time Brazil has shown an interest in Skyjack products and a key part of our timing of the decision to come to the market has been to ensure that we supported the market and customers not only with well-designed and reliable products, but with the appropriate aftermarket support. I am pleased to say our parts inventory and delivery performance is such that we have in excess of a 95 percent same day pick rate.”

A key part of the event was the recognition of 30 plus customers since 2012 with a series of banners with customer logos that lined the walls of the facility. “We thought it was a nice way to recognise the partnerships we have with our customers. They encouraged us to come to Brazil, so much so that the walls are nearly full!” said Mr Battazza.
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Powered access remains a safe industry, says IPAF

There were 28 fatalities worldwide involving mobile elevating work platforms (MEWP), also known as aerial work platforms (AWP), in the first half of 2013, according to findings from IPAF’s accident database. The main causes of these fatalities were: overturn (10), fall from height (9), entrapment (5), electrocution (3) and impact with MEWP (1).

Thirteen of the fatalities involved booms (3b), 10 involved scissor lifts (3a) and three involved vehicle mounts (1b). In two cases, the machine type was unknown. Of these fatalities, 13 occurred in the US, two each in France, Germany, the Netherlands and the UK, and one each in Armenia, Canada, Ireland, Malaysia, Norway, Spain and the UAE.

While releasing these findings, IPAF also updated the 2012 preliminary results following the reporting of a previously unrecorded fatal accident in Canada in October 2012. This brings the total fatalities in 2012 to 32, instead of the 31 initially reported.

Compared with the first half of 2012, which saw 17 fatalities reported, the number of fatalities reported for the first half of 2013 has increased by about 65 percent. IPAF believes that the accident-reporting project is capturing more data, not necessarily that there are more accidents.

While the main causes of fatalities were fairly evenly spread in the first half of 2012, the first half of 2013 saw a rise in the number of fatalities resulting from overturn and fall from height. The fatalities in the first half of 2012 involved more booms (3b) and vehicle mounts (1b). Those in the first half of 2013 involved more booms (3b) and scissor lifts (3a).

“Findings from IPAF’s rental market reports lead us to estimate that there are more than one million MEWPs in the world,” said IPAF CEO Tim Whiteman. “Every fatality is one too many, but these figures show that powered access equipment remains a safe way to carry out temporary work at height.”

“The accuracy of the data relies upon those using MEWPs and other interested parties to report any known fatal accidents to IPAF or to an IPAF member of staff,” said IPAF technical officer Chris Wraith.

“‘The comprehensiveness of the data cannot be guaranteed, but where appropriate, action is taken to verify the facts. The data is updated should relevant information become available.”

IPAF’s accident data is based on information collected in a number of ways: directly reported to the IPAF accident database, information obtained by IPAF staff worldwide, and information collated from press releases and news reports. All manufacturers, rental companies, contractors and users are encouraged to report any known fatal and serious accidents involving mobile elevating work platforms (MEWPs) and mast climbing work platforms (MCWP) worldwide at the IPAF accident database. The project is open to IPAF members and non-members, and includes an option for anonymous reporting.

All data collected is confidential and none of the detail of any accident is shared with third parties or disclosed to safety authorities unless required to by legal writ. The only exception to this is that manufacturers will be given basic data if a machine manufactured by their company is involved in a fatal accident.

To register and to report an accident involving a MEWP or an MCWP, go to www.ipaf.org/accident. IPAF’s rental market reports can be ordered at www.ipaf.org/reports. ■

TÜV certifies IPAF to ISO 18878 and 9001

An on-site audit by TÜV has confirmed that IPAF continues to comply with ISO 18878 ‘Mobile elevating work platforms – Operator (driver) training and ISO 9001 Quality management systems’. IPAF fulfilled all requirements of the ISO 18878 training standard and no non-conformities were found. The audit was performed in mid-August at the IPAF head office in the UK and included an audit of practical training conducted at IPAF-approved training centre 1 Up Access in Bolton.

The TÜV audit also confirmed that IPAF continues to comply with the ISO 9001 quality management standard. No non-conformities were found and IPAF exceeded the requirements for the standard in some areas.

The audit report highlighted IPAF’s progress in continuous development of the organisation itself towards an integrated management system and its “highly organised management system documentation with very transparent lists and references”. ■

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| Lighthouse Club Singapore (Affiliated Association) | Galmor (S) Pte Ltd |
| Aly Energy Singapore Pte Ltd | Genfor Lease Pte Ltd |
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High interest in IPAF Asia Platform Showcase and IPAF Asia Conference

The inaugural IPAF Asia Platform Showcase, taking place at the BuildTech Asia exhibition in Singapore, attracted many visitors curious to learn about the safe and productive use of MEWPs. The showcase gathered all MEWP industry stakeholders in Asia for the first time.

In addition, more than 140 participants from 14 countries attended the second IPAF Asia Conference in Singapore to learn and exchange views about the use of MEWPs and productivity. Participants were treated to an excellent panel of speakers, who gave insights on how to keep the powered access industry safe and productive. The keynote speakers also included representatives from the Singapore Ministry of Manpower (MOM) and Building and Construction Authority (BCA). The next IPAF Asia Conference will be held on 9 May 2014 in Singapore.

Presentations from the conference are available at www.ipaf.org/asiaconference.

MEWP course conducted for MOM inspectors

About 25 inspectors from the Singapore Ministry of Manpower (MOM) attended a customised course on MEWPs conducted by IPAF technical officer Chris Wraith at the end of July. Course participants gave very positive feedback, citing the course for its “very comprehensive, rigorous and well-balanced content” and the “excellent and engaging delivery by the trainer”.

Inspectors from MOM attending a customised course on MEWPs conducted by IPAF.
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<td>One International Exhibition Sdn Bhd&lt;br&gt;Tel: +603 8943 7488, Fax: +603 8943 7599&lt;br&gt;Email: <a href="mailto:info@oneinternational.com.my">info@oneinternational.com.my</a>&lt;br&gt;Website: <a href="http://www.oneinternational.com.my/onebuild">www.oneinternational.com.my/onebuild</a></td>
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<td>15 to 18 Oct 2013</td>
<td>BICES 2013&lt;br&gt;Beijing Jiuhua International Exhibition Centre&lt;br&gt;Beijing&lt;br&gt;China</td>
<td>China Construction Machinery Co Ltd&lt;br&gt;Tel: +86 10 5222 0922, Fax: +86 10 5118 3612&lt;br&gt;Email: <a href="mailto:info@e-bices.org">info@e-bices.org</a>&lt;br&gt;Website: <a href="http://www.e-bices.org">www.e-bices.org</a></td>
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<td>24 to 26 Oct 2013</td>
<td>Concrete Show Southeast Asia 2013&lt;br&gt;Jakarta International Expo, Kemayoran&lt;br&gt;Jakarta&lt;br&gt;Indonesia</td>
<td>UBM&lt;br&gt;Tel: +62 21 7560 4225&lt;br&gt;Email: <a href="mailto:matt.wilson@ubm.com">matt.wilson@ubm.com</a>&lt;br&gt;Website: <a href="http://www.concreteshowseasia.com">www.concreteshowseasia.com</a></td>
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<td>6 to 9 Nov 2013</td>
<td>Philconstruct 2013&lt;br&gt;SMX Convention Centre and World Trade Centre&lt;br&gt;Metro Manila&lt;br&gt;The Philippines</td>
<td>Global-Link Exhibitions Specialist Inc&lt;br&gt;Tel: +62 517 588 92, Fax: +62 517 5858&lt;br&gt;Email: <a href="mailto:philconstruct@globalinkmp.com">philconstruct@globalinkmp.com</a>&lt;br&gt;Website: <a href="http://www.globalinkmp.com">www.globalinkmp.com</a></td>
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<td>14 to 15 Nov 2013</td>
<td>IADC Forum on Early Contractor Involvement&lt;br&gt;Hotel Iatan&lt;br&gt;Kuala Lumpur&lt;br&gt;Malaysia</td>
<td>International Association of Dredging Companies&lt;br&gt;Tel: +31 70 352 3334, Fax: +31 70 351 2654&lt;br&gt;Email: <a href="mailto:dhollander@iadc-dredging.com">dhollander@iadc-dredging.com</a>&lt;br&gt;Website: <a href="http://www.iadc-dredging.com">www.iadc-dredging.com</a></td>
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<td>20 to 24 Nov 2013</td>
<td>Excon 2013&lt;br&gt;Bangalore International Exhibition Centre&lt;br&gt;Bangalore&lt;br&gt;India</td>
<td>Confederation of Indian Industry&lt;br&gt;Tel: +91 44 42 444 555, Fax: +91 44 42 444 510&lt;br&gt;Email: <a href="mailto:excon@ciin.in">excon@ciin.in</a>&lt;br&gt;Website: <a href="http://www.excon.in">www.excon.in</a></td>
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<td>26 to 28 Nov 2013</td>
<td>Myanbuild 2013&lt;br&gt;Tatmadaw Hall&lt;br&gt;Yangon&lt;br&gt;Myanmar</td>
<td>AMB Events Sdn Bhd&lt;br&gt;Tel: +603 4041 9889, Fax: +603 2770 5301&lt;br&gt;Email: <a href="mailto:myanbuild@ambexpo.com">myanbuild@ambexpo.com</a>&lt;br&gt;Website: <a href="http://www.myanbuild.net">www.myanbuild.net</a></td>
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<td>12 to 16 Mar 2014</td>
<td>Worldbex 2014&lt;br&gt;World Trade Centre Metro Manila&lt;br&gt;Manila&lt;br&gt;The Philippines</td>
<td>Worldbex Services International&lt;br&gt;Tel: +63 2 531 6350, Fax: +63 2 533 2026&lt;br&gt;Email: <a href="mailto:info@worldbex.com">info@worldbex.com</a>&lt;br&gt;Website: <a href="http://www.worldbex.com">www.worldbex.com</a></td>
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<td>7 to 9 May 2014</td>
<td>OS+H Asia 2014&lt;br&gt;Suntec Singapore&lt;br&gt;Singapore</td>
<td>Messe Düsseldorf Asia Pte Ltd&lt;br&gt;Tel: +65 6332 9620, Fax: +65 6337 4633&lt;br&gt;Email: <a href="mailto:osha@mda.com.sg">osha@mda.com.sg</a>&lt;br&gt;Website: <a href="http://www.osha-singapore.com">www.osha-singapore.com</a></td>
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<td>22 to 24 Jul 2014</td>
<td>BuildTechAsia 2014&lt;br&gt;Singapore Expo&lt;br&gt;Singapore</td>
<td>Sphere Exhibits Pte Ltd&lt;br&gt;Tel: +65 6319 4021, Fax: +65 6319 6140&lt;br&gt;Email: <a href="mailto:buildtechasia@sph.com.sg">buildtechasia@sph.com.sg</a>&lt;br&gt;Website: <a href="http://www.buildtechasia.com">www.buildtechasia.com</a></td>
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<td>25 to 28 Nov 2014</td>
<td>bauma China 2014&lt;br&gt;Shanghai New International Expo Centre&lt;br&gt;Shanghai&lt;br&gt;China</td>
<td>Messe München International&lt;br&gt;Tel: +49 89 949 20251, Fax: +49 89 949 20259&lt;br&gt;Email: <a href="mailto:info@bauma-china.com">info@bauma-china.com</a>&lt;br&gt;Website: <a href="http://www.bauma-china.com">www.bauma-china.com</a></td>
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<td>27 to 30 Aug 2014</td>
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<td>15 to 18 Dec 2014</td>
<td>bC India 2014&lt;br&gt;India Expo Centre&lt;br&gt;Greater Noida, Delhi&lt;br&gt;India</td>
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<td>25 to 28 Nov 2013</td>
<td>PMV Live at The Big 5&lt;br&gt;Dubai World Trade Centre&lt;br&gt;Dubai&lt;br&gt;UAE</td>
<td>DMG Events&lt;br&gt;Tel: +971 4 4380 355, Fax: +971 4 4380 356&lt;br&gt;Email: <a href="mailto:joseffwilliams@dmgeventsme.com">joseffwilliams@dmgeventsme.com</a>&lt;br&gt;Website: <a href="http://www.pmvlive.com">www.pmvlive.com</a></td>
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| 14 to 16 Jan 2014 | Intermat Middle East 2014                | Abu Dhabi National Exhibition Centre, Abu Dhabi, UAE | Comexposium & Clarion Events Middle East  
Tel: +33 1 7677 1208  
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| 21 to 24 Jan 2014 | World of Concrete 2014                   | Las Vegas Convention Centre, Las Vegas, Nevada, USA | Hanley Wood Exhibitions  
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Tel: +1 414 298 4167, Fax: +1 414 272 2672  
Email: international@conexpoconagg.com  
Website: www.conexpoconagg.com |
| 1 to 5 Apr 2014  | Smopyc 2014                              | Zaragoza Exhibition Centre, Zaragoza, Spain | Feria de Zaragoza  
Tel: +34 976 764 700, Fax: +34 976 330 649  
Email: comunicacion@feriazaragoza.es  
Website: www.smopyc.com |
Tel: +44 15395 66700  
Email: info@ipaf.org  
Website: www.ipaf-summit.info |
| 8 to 11 May 2014 | Samoter 2014                             | Verona Exhibition Centre, Verona, Italy | Veronafiere  
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The next Forum on Early Contractor Involvement will take place at the Hotel Istana in Kuala Lumpur, Malaysia, from 14 to 15 November 2013, organised by the International Association of Dredging Companies (IADC) in co-operation with the Eastern Dredging Association (EADA). EADA is part of the World Organisation of Dredging Associations (WODA), which serves the Asian and Pacific region.

The two-day forum with the theme ‘Partnering Creates Possibilities’ will gather top-level experts and advisors in charge of construction projects for an in-depth exchange of knowledge. The forum is expected to attract project owners, financiers, insurers, contractors, construction lawyers, regulators, government agencies or NGOs working in the maritime infrastructure construction industry.

What is Early Contractor Involvement?

Anyone involved in large infrastructure projects has come up against delays, postponements and risks. The first question that usually arises is ‘How could this have been done differently?’ or ‘Why didn’t anyone see these problems coming?’

Early Contractor Involvement (ECI) is a method to get everyone on board with a project before the first shovel, literally and figuratively, has hit the ground. It can help identify risks and responsibilities, pinpoint obstacles to co-operation, and suggest possible methods to eliminate or minimise differences.

The forum aims to explore the practical and legal possibilities of smarter and better use of the resources associated with ‘the early involvement of contractors’. The results of ECI are expected to bring benefits to society in the form of faster and more cost-effective solutions.

By examining recent successful projects from different parts of the world, the forum will distribute existing knowledge and stimulate new, creative ideas for achieving solutions for Best for the Project (win-win).

The forum will also provide a unique opportunity for participants to learn how several projects have already successfully applied ECI methods. With well-known (keynote) speakers setting the tone, the participants will explore the benefits of ‘contractual partnering’ – that is, co-operation amongst all the contractual players from the very early stages of project development.

The Forum on Early Contractor Involvement in Kuala Lumpur is a follow-up to the outstanding meeting on the subject organised in London two years ago.

Dr Dean T. Kashiwagi will once again be participating as a keynote speaker. He is professor at Arizona State University’s School of Sustainable Engineering and the Built Environment (SSEBE), and director of Performance Based Studies Research Group (PBSRG) at the Del E. Webb School of Construction (DEWSC). Dr Kashiwagi is a worldwide expert in optimising the delivery of construction and other services using performance information. His structures/processes simultaneously minimise project/risk management functions up to 90 percent, increase vendor profit as much as 100 percent, increase performance to 98 percent and decrease costs. Dr Kashiwagi is the creator of the best value Performance Information Procurement System (PIPS) and Performance Information Risk Management System (PIRMS). His research has expanded to Finland, the Netherlands, Africa and Malaysia.

Other speakers will include Gerlando Butera, an international construction law specialist in marine engineering and dredging and reclamation projects around the world; Paul Coughlan, project director, new parallel runway for Brisbane Airport; Grant Gaston, acting general manager, major projects, North Queensland Bulk Ports (NQBP), Australia; Wouter de Hamer, who is based in Jakarta since 2012 as a coastal expert/project manager of several water management and land reclamation projects; Sridhar Krishnan, an engineer and associate director at BMT Asia Pacific and was actively involved in the successful completion of three recent large-scale land reclamation projects in Malaysia; and Mark Oliver, a civil engineer who has worked on projects in Europe, Southeast Asia, the Indian sub-continent, the Middle East, North Africa and the Caribbean, and is presently managing director of DHI Water and Environment (M) Sdn Bhd, Malaysia.

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Industry Events

The 2013 International Construction Economic Forum (ICEF) will be held from 20 to 22 November at the Hotel Okura in Amsterdam, the Netherlands. The conference, networking event and awards dinner will focus on core themes of trends and forecasts in the global construction industry, project finance, successful project management and delivery, equipment technology and asset management.

Former Spanish Prime Minister José María Aznar will give the keynote address at ICEF. Mr Aznar, who was in office from 1996 to 2004, will speak about the challenges of globalisation and free trade, and how they relate to the international construction sector. As well as exploring the power and purpose of globalisation, highlighting the ramifications for underdeveloped countries, Mr Aznar will focus on building stability and encouraging development in Latin America, where Spain has many links.

Other speakers will include several CEOs of major companies in the global construction industry, including Miguel Jurado Fernández, general manager of FCC Construcción; Zeng Guang'an, president of LiuGong, one of China’s leading construction equipment manufacturers; Jules Janssen, treasurer of the European International Contractors (EIC) trade association and head of construction at Besix, one of Belgium’s largest contractors; Norty Turner, CEO of Riwal, a major European rental company; and Greg Owens, CEO of IronPlanet, an Internet-based equipment sales/auction company.

The programme will also feature construction specialists from the legal and financial communities and leading economic forecasters for the construction industry.

The evening of 21 November will see a gala dinner and the award of prizes in nine categories for outstanding performance in the construction industry. The most sought-after is expected to be the International Construction Project of the Year award, which will recognise a scheme worth US$100 million or more, of international significance.

ICEF is targeted towards major construction contractors, but it will also appeal to other stakeholders in the industry including consultants and engineers, major clients, building materials producers, those involved in the construction equipment industry such as manufacturers, dealers and rental companies, trade associations and many others.

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The APH 100-30 is currently the heaviest vibratory plate ever built by Ammann, featuring an operating weight of 750 kg and working width of 650–950 mm. A hydraulic 100 kN vibrating plate with a uniquely low frequency of just 45 Hz and a triple shaft exciter produces outstanding surface compaction results.

The APH 100-30 also features excellent running properties coupled with powerful advance and high climbing ability. The vibratory plate advances at a constant rate and will not dig into the substrate even if it is wet or cohesive.

All vibratory plates from Ammann are equipped with fully hydraulic hydrostatic Orbitrol steering, and the APH 100-30 is no exception. Its function is similar to power steering and offers a level of operating convenience and fatigue-free working combined with maximum agility. The APH 100-30 is powered by a water-cooled, three-cylinder Kubota D 1105 diesel engine.

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LiuGong unveils new 950E excavator

LiuGong’s new excavator, the 950E, features a 3.2 cu m bucket capacity and a 298 kW Cummins engine. The machine is ideal for high production construction applications.

The 950E has a peak torque of 1,898 Nm@1,400 rpm, an operating weight of 46,500 kg, a maximum digging depth of 6,521 mm and maximum travel speed of 5.5 km/hr. The Intelligent Power Control System that is designed exactly for the machine ensures accurate component matching and integration for superior efficiency and lower fuel consumption.

The 950E is part of the E-series that was launched at Intermat 2012. This new range is said to have one of the widest cabs in the industry, offering excellent operator comfort. In addition, the ergonomics of the controls have been refined. Control location, where the switches are – making sure the operator does not have to turn around to operate a switch, the feel and precision of the controls, and even the positioning of the A/C vents to optimise heating, cooling, defrosting and cab comfort so the air is not blowing in the operators face - all of these have been scrutinised, said LiuGong.

What's more, the E-series has been designed to deliver approximately 20 percent gains in both productivity and reduced fuel consumption.

The new 950E made its debut in Indonesia, at the Jakarta International Mining Expo that took place in September 2013.

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Enerpac’s versatile Ultima P84 hand pump

The new Ultima P84 hand pump from Enerpac can actuate widely used double-acting cylinders to power labour-saving tools found in workshops and worksites. The highly portable 13 kg P84 pump – and the complementary P464 high capacity model – each feature manual four-way control valves through which they can actuate either typical single-acting cylinders or widely used double-acting cylinders that provide powered extension and retraction.

The capability to power double-acting cylinders permits the rugged steel hand pumps to facilitate rapid and precise control of jobs through the powered extension and retraction of cylinder plungers in tasks such as fabrication, lifting, cutting, clamping, pressing, testing, forming, aligning, nut splitting and pushing and pulling mechanical components such as bearings and seals.

The P84 and P464 share the two-speed operation of the broader Ultima range, which means the faster first stage can be used to quickly position the plunger of the hydraulic cylinder where it is needed, before employing the powerful second stage (700-2,300 bar, 10,000-40,000 psi) to do the heavy work.

Two-speed pumps are recommended for applications where the cylinder plunger must advance rapidly to contact load and applications where greater oil capacities are required, such as multiple cylinder hook-ups. The P84 and P464 control valve is designed for use with either one double-acting or two single-acting cylinders.

Like the entire Ultima series, the P84 and P464 feature an innovative design that provides greater ease-of-use, with handle effort reduced by up to 20 percent without compromising speed or performance. The pumps’ innovative bypass system further reduces loads often created by earlier types of two-stage pumps, said Enerpac. Maximum handle effort is 30 kg for the P84 and 43.3 kg for the P464.

The versatile Ultima steel hand pumps - weighing as little as 7 kg - are ideal for rugged applications where durability is of utmost concern and where on-site pneumatic, petrol or electric power sources are not available or not required for reasons of safety, convenience or remoteness. They comfortably handle cylinders of 5-25 t capacity and sometimes considerably more, while withstanding rugged sites and rough treatment.

The pumps are compatible with a huge range of high-pressure hydraulic tools already in widespread use in industries such as architectural, building and construction; civil, mechanical, production and process engineering; electrical distribution and maintenance; energy production and reticulation; government utility; manufacturing; materials handling; metal fabrication and workholding; mining and resources (including pipeline maintenance); oil and gas; transport; workshop mechanical maintenance operations; primary production (including farm, forestry and pulp and paper); shipping; safety; automotive; and food and beverage production and maintenance.
Trimble has introduced a site positioning system designed for owner operators, small site contractors or construction companies new to GPS. The Trimble Site Positioning System Essentials Kit gives contractors proven Trimble quality and accuracy in an affordable and easy-to-use solution.

The Essentials Kit is comprised of the new Trimble Site Mobile controller, Trimble SCS900 Site Controller Software and Trimble SPS985L GNSS Smart Antenna for a complete GPS positioning solution. Using GPS, a grade checker or site engineer can check a grade, slope or alignment more accurately and in less time than with traditional construction survey methods.

The trimble Site Mobile controller is an all-in-one mobile device that enables enhanced connectivity in the field. Featuring a large, capacitive touch screen with superior sunlight readability, an integrated eight-megapixel camera and the convenience of a built-in smartphone, the Site Mobile eliminates the need to carry multiple devices on the construction site.

A new, entry-level version of Trimble SCS900 Site Controller Software has been designed to run on the Site Mobile controller. The software is simple to use and learn, making it ideal for contractors who are new to construction technology. In addition, the SCS900 is upgradeable to more complex functionality as a contractor’s needs change.

The SPS985L GNSS Smart Antenna has the same tough casing and compact design as other Trimble GNSS Smart Antennas at an attractive price point. For accurate construction site measurement, the SPS985L provides precision Real Time Kinetic (RTK) positioning by using GPS and GLONASS.

The Essentials Kit can be upgraded to take advantage of Connected Site technology, including VRS networks, Internet Base Station Service (IBSS), Trimble Remote Assistant and wireless data sync. Trimble Connected Site solutions transform the construction industry by utilising technology to improve efficiency and productivity, while minimising waste and expense.

The Essentials Kit is available through Trimble’s worldwide SITECH technology dealer channel.

Enquiry: dan_barry@trimble.com

Trimble’s Quantum system chosen for Russian high-speed rail lines

Trimble’s Quantum system has been chosen by the Russian High-Speed Rail Authority to investigate alternatives for two high-speed rail lines. The Quantum technology will allow the Russian High-Speed Rail Authority to rapidly view a wide range of alternatives, considering the social, environmental and design constraints and present preferred options to stakeholders for public consultation during 2013.

The Russian study is examining the feasibility of two 1,600-km high-speed rail lines. The first line would connect Moscow to Yekaterinburg and the second line would connect Moscow to Sochi. The Trimble Quantum system will be used to help find the optimal alignment for the preferred route, support the quantity and cost estimates and reports, and aid project planners in the decision-making process.

Trimble’s Quantum system integrates engineering, environmental, social and economic factors into a simultaneous analysis of alternatives for rail and road planning. This holistic approach to planning new infrastructure can result in faster decision-making and lower construction costs. Projects of all types and sizes - ranging from regional, state and national transportation infrastructure planning to small bypasses and road realignments - can take advantage of the benefits of the Trimble Quantum. In addition, the system can be used for mining, forestry and utility industry infrastructure.
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New soil stabilisers from Wirtgen

Wirtgen’s WR 240 was introduced to the market in 2012 as the first representative of the new generation cold recyclers and soil stabilisers. The company recently introduced WR 200 and WR 250 models, rounding out this product segment.

The WR 200 is a smaller version of the WR 240, which boasts nearly identical features for both cold recycling and soil stabilisation. The machine is highly manoeuvrable on small, tight construction sites. And it requires no special transport permits, making it ideal for one-day jobs.

The WR 250 is the most heavy-duty machine of the new WR generation, designed for stabilising heavy, swampy soils. It is suitable for recycling and pulverisation jobs, where it turns roadways up to 25 cm thick into homogenous granulate. What’s new is the option of operating the milling drum from the cabin, making it possible to flexibly activate a number of milling drum speeds. The milling drum design tailored to the WR 250’s high output helps to achieve outstanding mix quality at a high feed rate.

Enquiry: wirtgen@wirtgen.com.sg

The new Wirtgen WR 250 is designed for stabilising heavy, swampy soils. It is ideal for recycling and pulverisation jobs, where it turns roadways up to 25 cm thick into homogenous granulate.

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Caterpillar introduces CW34 pneumatic roller

Caterpillar’s new CW34 pneumatic roller features an operating range from 10 to 27 t. This machine performs well on granular materials as well as all types of asphalt mix designs and can be used on all phases of compaction due to its high contact pressures. Typical applications include highways, city streets, county roads, lane additions, industrial sites, overlays, airport runways and other production-sized jobs.

The CW34 delivers compaction with flexible ballast, oscillating front and rear wheels, front suspension and optional air on the run, making this machine extremely productive. Rear ballast options include modular and non-modular steel, sand and water. The modular steel ballast system can be added or removed, making it easy to adjust operating weights and match job site requirements. The oscillating front wheels deliver vertical and horizontal forces that reduce air voids, ensuring uniformity across the surface, while the air on the run option allows the operator to quickly adjust wheel pressures in order to increase or decrease static loads for optimal surface quality.

The CW34 offers great visibility due to the new console design and standard sliding station that rotates 90º to either side. The operator can easily view wheel edges as well as a one by one meter in front of the machine. An LCD display and push button machine controls simplify operation for an all-around comfortable operating environment.

The optional Cat compaction control system provides an easy-to-use interface that keeps the operator informed of mat temperatures and rolling patterns. Infrared temperature sensors combined with mapping keeps the operator informed of current mat temperatures, machine position, and where coverage has taken place. This intuitive system significantly enhances nighttime performance, while also recording information for future data analysis and quality control documentation.

The CW34 powertrain functions much like an automotive-type system with continuously variable engine speed adjustment at the propel lever. An automatic speed control feature enables the operator to tune the system for a maximum speed within each of the three ranges including low, intermediate and high. When operating in intermediate and high, the system shifts smoothly through the speed ranges and offers a maximum speed of 19 km/h (12 mph) for quick movement around and between job sites. The system also has the ability to coast, leading to less fuel consumption and lower sound levels for an all-around more comfortable environment.

The CW34 utilises the Cat C4.4B engine with ACERT Technology and can be outfitted for highly regulated or lesser regulated countries. These machines are fully capable of operating at temperatures up to 49ºC with maximum engine load, due to the high volume cooling system and large fan. The smooth operating Cat exclusive powertrain comes standard with ECO-mode, and automatic speed control, saving fuel and lowering operating costs.

Eight 13/80 R20 rubber tyres provide an overall compaction width of 2,090 mm with 25 m overlap. Each wheel is equipped with self-adjusting scrapers in order to prevent asphalt from adhering to the wheel surface. Optional cocoa mats can be utilised for optimal efficiency. An optional emulsion spray system with dedicated tank, lines, and spray bars enables releasing agents to be utilised on the wheels for additional protection against adhesion.

Working in unfavourable conditions is a regular occurrence in the paving business, however, when equipped with the Cab, comfort is optimised. Full floor to ceiling glass enables good sight lines to the wheel edges and both sides of the machine. An optional sun-canopy can be added to the ROPS for increased protection in adverse conditions.

The new ECO-mode feature not only conserves fuel, but also reduces sound levels. The standard 500 hr engine oil service interval maximises uptime and minimises lifetime operating costs. The large capacity hydraulic and cooling systems keep components cool, even in high ambient temperatures, for excellent long-term performance in all regions.

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McCloskey adds new model to 516 Trommel line

McCloskey’s new 516RT is a highly mobile, high performance tracked trommel ideal for processing a number of materials across applications. Weighing 22,500 kg, the 516RT boasts a heavy-duty chassis with four independent stabiliser jack legs, integrated hydraulic folding conveyors and a radial conveyor with 180° swing that delivers 4.13 m stockpile height. Powered by a Cat C4.4 100 hp engine, the 516RT features an oversized hydraulic tank and hydraulic oil cooler for maximum cooling capacity and high efficiency throughout the hydraulic system.

According to McCloskey, the 516RT has a number of features that place it ahead of competitors in the category. A significantly longer and wider direct feed 5.25 cu m hopper provides a large loading area, while a 6-in wider feed opening allows for the free flow of material and high volume capacity. The 516RT’s optimal fully enclosed fines flashing minimises potential material spillage while the rubber belting extending along the length of the machine reduces blockages, even when working with wet and sticky materials.

With the 5 ft by 16 ft screening surface, material such as topsoil, compost, sand and gravel, and wood products spend more time in the drum for better results. The three screen sections allow for flexibility in sizing to maximise productivity; for heavy-duty applications, a remote control hydraulic tipping grizzly can be added to scalp off large material. Ground adjustable brushes on the 516RT keep the screen clean and rotate away from the drum for ease of drum change.

As with all McCloskey equipment, the 516RT has an accessible engine service bay for ease of maintenance and service, saving time and reducing costs. It has additional options like a radio remote control for tracks, a variety of drum and screen combinations, and a hydraulic tipping grid.

Enquiry: mccloskey@mccloskeyinternational.com

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XCMG XR280D drill rig

This is a glimpse of an XCMG XR280D rotary drill rig working on a job site. The machine has been built to be robust and provides high stability. XCMG recently held an event in Singapore to introduce the XR280D to the Singapore and Malaysian market.

FAE hydraulic vibroflot

Foundation Associates Engineering’s hydraulic vibroflot has been used in various stone columns and sand compaction projects. The vibroflot, seen here being suspended from a crawler crane, is designed to offer high durability, efficiency and maintenance-friendly.