



Bangalore International Exhibition Center (BIEC), Bengaluru, India

DAILY NEWS

12th - 16th December 2017

Day 4

Vision for Tomorrow

Future Positive

Amid a tremendously well-received edition of Asia's largest International Construction Equipment and Technology Trade Fair, Chandrajit Banerjee, Director General, CII waxes optimistic on the future of Infrastructure in India as well as EXCON.



“EXCON 2017 is a global marketplace. It shows that India is part of the global manufacturing and supply chain. We have got 21 countries here. It’s an amazing reflection on technology, on manufacturing, on service, and on people. I am very proud to have been spending time at the event.”

Tarun Das
Former Chief Mentor of the Confederation of Indian Industry



“Different variants of EXCON will be held in different parts of the country, and together they will stitch the entire story together.”

Chandrajit Banerjee
Director General
Confederation of Indian Industry



“EXCON is a good event and gives one the opportunity to demonstrate leadership to prospective customers, suppliers and designers. I make it a point to attend it every year.”

Azim Premji
Chairman
Wipro Ltd

Infrastructure is a sector for tomorrow with extremely high direct employment. Construction sector itself is one of the highest employment generators. Today, the display at EXCON is really all about what can be manufactured in India. A large part of the products here are manufactured by the exhibiting companies in their own plants. EXCON is the largest show for India and for CII, and has really grown in the last 17 years. Besides being a huge technology showcase, the products which are the world’s best compete with the world’s best. It also gives you a huge sense of the type of market that is unfolding in India in the construction sector.

Growth beyond numbers

The sheer size of the show is going to grow in the coming years because India is a land of opportunities. However, the way forward for EXCON is to grow, but not just in size. The event happens every alternate year. A lot will happen between now and the next edition. There will be many more conversations going on through different kinds of media. That is a dialogue in terms of sharing of how the markets would grow, the opportunities that would arise, the different types of technologies that are coming in, and the different players that are going to come into India.

So, while the preparations for EXCON 2019 have already begun, a diverse range of smaller shows will also unfold in the meanwhile. These different variants of EXCON will be held in different parts of the country, and together they will stitch the entire story together.

There is going to be a show in Hyderabad on similar lines as EXCON, but on a different scale, and more in North India and the Northeast.

Hopes abound

The type of visitors we are having, the business visitors that we are getting, the type of business enquiries and the results that we are

getting, all indicate that the construction industry is on a growth path.

This can be attributed to several factors. Firstly, infrastructure in India is an extremely important sector, and today we are seeing more and more public-sector expenditure being invested in the infra sector. There is also a huge need for India to grow in terms of both rural and urban infrastructure, with roads, airports and more.

Therefore, this sector itself will have huge impetus. Many more sectors which are connected to this, like logistics etc. would also be getting a huge boost through this show.

Knowledge Sharing

For a Greener Planet

With the aim to arrive at measures that can help preserve the natural environment while still being able to construct structures, a conference was held titled "Green Construction Trends & Technologies" at EXCON 2017.

The industry experts expounded ways to cope with the grave issue that the industry currently encounters so as to have a secure future.

The conference consisted of four sessions titled: 'Green Building Movement – India', 'Affordable Housing Technologies', 'Trends & Technologies' and the last session

comprised presentation of a few case studies.

The Green Movement

Syed Mohammed Beary, Chairman, IGBC – Bangalore Chapter & Chairman & MD, Bearys Group gave his perspective on the Green Building Movement in India. Sundeepp Vullikanti, Counsellor, CII-IGBC also

stressed on the need to develop the Green Building culture in the country. Besides residential, commercial and workshop buildings, the Bearys Group has also built world's first eco-friendly green mosque at Kodi, Kundapur, Udipi district, Karnataka, which takes no power from the state electricity board and runs on indigenously developed solar and wind power. Ramesh Suthar, Group's GM – Green Initiatives, explained the ways the Group resorted to in order to make it happen.

Industry contribution

Ramamoorthy Venkateswaran, Head – Civil & Construction, Wipro talked about the company's initiatives to reduce power consumption by 40 percent in the Karnataka offices. He said, "Wipro's green initiative is based on three pillars, namely Reduction in use of power, Reduction in consumption of water and Reduction in waste."

The Central Government has also taken up the mission of 'Housing for All by 2022'. Dr. Chandrasekhar

Hariharan, Co-chair, IGBC-Bangalore Chapter and Chairman of Biodiversity Conservation (I), revealed, "Forty-five thousand homes have to be delivered a day, if we really need to fulfill this mission."

MG Somashekar, Chairman, IGBC Green Affordable Housing Ratings & Managing Director of PG Setty Construction, explained the concepts of Monolithic construction and Precast construction that may be a way for faster delivery of large scale housing projects. He revealed, "We have built up to four houses in just 48 hours using new technologies."

Breaking the myth on affordable housing, Gautham RK, Director – Sustainability, Cushman & Wakefield India, said, "Affordable housing and Low-cost housing are different categories of housing projects. It does not mean they are inferior, unsafe or non-durable. Except in the USA, in most of the European countries, Affordable Housing projects exist. Unless our perception changes, in India Affordable Housing projects will not be successful."



Source: Magic Wand Media Inc

Industry experts on why Green Construction is the need of the hour at EXCON 2017.

Smartening the Sector

A session on Components – Smart Technologies for Smart Equipment coinciding with Day three of EXCON 2017 presented the latest updates on Components in Construction Equipment, Machine Intelligence and Efficient Hydraulics.

Digitization, robotics, new lighter and stronger materials, the urgency of environmental regulations has ushered in an era of rapidly evolving and new exciting technology for the construction equipment industry. Increasingly construction is becoming more oriented toward mechanization to reduce project time and control costs – leading to higher demand for advanced construction equipment. EXCON is undoubtedly a momentous opportunity for manufacturers of construction equipment and components to generate business. However, the rare congregation of such a vast and diverse industry also presents an unparalleled occasion for knowledge sharing.

Keeping its commitment to help the industry grow not just in volume, but also through talent development, the third day of Conferences at the event



Source: Magic Wand Media Inc

Prof Dr Petter Krus, Department of Fluid and Mechatronic Systems, Linköping Universit presented an instructive module titled, "Towards more efficient mobile Hydraulic Systems: A deep dive into efficiency of hydraulics" during a session on "Components - Smart Technologies for Smart Equipment" at EXCON.

featured a session on Components – Smart Technologies for Smart Equipments.

The knowledge package

Dimitrov Krishnan, Vice President, Volvo Construction Equipment Ltd presented his keynote address on "Big Picture Construction: Equipment, Components and the Way Forward" followed by KR Sanjiv, Chief Technology Officer, Wipro Technologies Ltd who spoke on "Looking into the Future: Autonomous machines, Machine intelligence, Connectivity and more."

In the final presentation titled, "Towards more efficient mobile Hydraulic Systems: A deep dive into efficiency of hydraulics", Prof Dr Petter Krus, Department of Fluid and Mechatronic Systems, Linköping Universit spoke about various systems such as Open Centre System; Negative Load Sensing System; models for better effici-

ency; case studies from industrial partners and applications, etc. He introduced Hopsan NG, the next generation of the Hopsan simulation package used primarily for hydro-mechanical simulation.

Conclusion

India is one of the fastest growing markets for construction and earthmoving equipment globally and has emerged as a major base for manufacturing equipment and components. The Infrastructure Sector has seen a steady growth over the past two years, with massive employment potential predicted for the next decade.

At a time when India is unabashedly pursuing the ambition to be a global industry hub, educational seminars such as this go a long way into helping the industry keep pace with the world.

Light Construction Equipment

Array of products launched @ EXCON

The new state-of-the-art Mikasa Tamping Rammer from Greaves Cotton is small and light with a strong impact force. It is available in a design where the crank gear uses a spring cylinder to transfer the torque generated by the engine/electric motor into a reciprocating motion. It has a newly designed clutch drum which is automatically designed to eject wear particles via centrifugal force. Additionally, the anti-vibration rubber handle features a safety pin design that prevents the handle from detaching from the frame when it is damaged.

The Tamping Rammer is available in a wide range of models with operating weight ranging from 62 kg to 84 kg, impact force ranging between 9.8 kN to 15.7 kN, and foot width between 265 mm and 285 mm.

It is completely manoeuvrable and can be used in a wide range of applications ranging from trench work, backfill, and repairing work on asphalt. These rammers are specially designed to compact the roadbed having low water content where heavy vibro compactors fail to perform.

Mikasa Reversible Compactor

The newly designed reversible compactor from Greaves Cotton is available in a forward moving



Source: Greaves Cotton Ltd

mechanism with a combination of a rotating shaft powered by an eccentric motor and an adjustable phase of the resultant force and speed. In this design, a strong compaction force is generated because of the centrifugal force produced by the twin eccentric weights. The compactor is capable of generating a compaction power equivalent to



an 80 kg tamping rammer. It features an adjustable forward, neutral and reverse motion, direction and speed. It comes with a patented vibration absorbing system handle and a forward reverse control lever to help do the job as quickly and absolutely as possible. The light weight and rugged front cover protects the engine from gravel and external damage.

The compactors are available in a wide range of models with petrol and air-cooled diesel engines, operating weight ranging between 68 kg to 525 kg, centrifugal force from 15.0 kN to 65 kN, and an operating width from 350 mm to 650 mm and a 595 mm and 650 mm extension plate.

The reversible compactor is a low-profile machine that has a stable operation and can be used in backfill of sewage works and other jobs.

Greaves Cotton Ltd
www.greaves cotton.com
 Hall & Stall: 1 / B-46

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- Non-directional pattern with Fin type configuration, which provides better traction and tread cooling
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- Reinforced for puncture resistance

APPLICATION: Tipper trucks

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12.00-20	20	TT
12.00-24	20	TT

MINING

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MINEMAX

Visitor's Perspective

To relive the success

“I have been acquainted with EXCON for the past 10 years. I first attended the event in 2010 and two years ago participated as an exhibitor where we received great response. We wish to repeat that success in the upcoming edition since we have already found suppliers and customers at the event this year. Today, EXCON is much bigger, and with many suppliers, technology vendors and customers assembling with one common goal, there is a plethora of opportunities for all.”



Rajeev Kumar Mangla
Director
SVS Filtration Engineers & Consultants Pvt Ltd

EXCON more than a business platform

“EXCON is quite well-known among the construction machinery manufactures, buyers and brokers. People visit the event to explore new technologies and develop contacts. It's a massive learning ground which has taught me many things. With several options around, the customer gets to understand and compare the merits and demerits of different brands before making a final purchase decision.”



IC Biswas
Sr. Manager (Marketing)
Hydrokrimp A. C. Pvt Ltd

L&T proves 'Make in India' prowess, unveils 3 new machines

As part of the ambitious 'Make in India' campaign, the engineering giant Larsen & Toubro Ltd has proudly launched three new machines in the road construction segment at Excon 2017. All these machines have been developed inhouse by L&T at its Product Development Centre in Coimbatore and manufactured by L&T Construction Equipment Ltd.

Hydraulic Paver

Hydraulic Paver L&T 5590H is a machine used for paving predominantly bitumen on the road surface and will help Road Contractors achieve higher productivity in the road construction. The machine is capable of paving up to 5.5m. The hopper, conveyer and auger are all hydraulically driven. The travel is by hydraulic motors. The machine is powered by a 4 cylinder Ashok Leyland water cooler diesel engine with an in-line fuel pump. All the machine controls can be operated from the operator console itself. There is a slideable and rotatable operator console which gives the operator the required edge visibility. The screed heating option is through LPG cylinders. The screed can be hydraulically extended from 2.5m onwards to



Hydraulic Paver 5590H



Skid Steer Loader S315R

4.5m, beyond which 0.5m mechanical extensions on other side can extend it to 5.5m. The machine is also capable of handling material like dry lean concrete, wet mix macadam and dense bituminous macadam. It can lay thickness ranging from 10mm to 200mm.

Skid Steer Loader

Skid Steer Loader S315R is a versatile machine to which can be fitted a wide variety of attachments. The 3.5 ton machine has a pay load of 1.5 ton. The machine has a distinct feature of turning on the spot and is ideal for applications where there is space constraint. The machine is operator-friendly and is fitted with ROPS / FOPS Cabin. It is offered with a standard loader bucket of 0.5 cum capacity and has a quick coupler mechanism to quickly change the attachment. The filters are all accessible from the ground level on opening the rear door. The machine has hydraulic joy stick control for ease of operation. Visibility is further enhanced by having a glass top cut out on the roof of the operator cabin. The safety system of the

machine ensures that the machine starts only after the operator is in the seat and the safety bar is engaged. The machine can load the popular hauling 10 ton dump trucks LCVs and tractor trolleys.

Pneumatic Tyred Roller

Pneumatic Tyred Roller L&T 2490HD is a machine used for the sealing of topmost bituminous layer. The sealing ensures that no water seepage takes place into the road. The drive quality also improves with the use of the machine. It has an unladen weight of 12.5 ton which can be ballasted to get the maximum weight of 24 ton. The ballast can be achieved by using concrete debris or steel scrap. The machine is built with a four front and four rear



Pneumatic Tyred Roller 2490HD

combination. The front wheels are directly driven by hydraulic motors. The steering system is optimised to ensure that the machine steering leaves no scuffing on the surface.

Larsen & Toubro Ltd
www.larsentoubro.com
Hall & Stall: Outdoor OD - 75 & 76/Yellow Lot

Source: Larsen & Toubro Ltd

Pumping Technology

Exploring New Ideas

An insightful read on RATEC's Ucrete Technology that has revolutionized precast concrete part production while helping customers reduce their production costs and improving the quality of precast elements.

Ucrete technology, developed by RATEC GmbH in Germany, has established itself in recent years as a modern and effective solution to produce particularly complex, structured or volumetric precast concrete elements. The core of Ucrete is the special pump technology with the UPP100

Installation of the turbines on the finished mast.



pump station, which is used to fill moulds from the bottom to top.

Currently, Ucrete pumping technology is used in several projects worldwide. One of them is the erection of modern wind parks in Hami, central China. The project includes two production sites for erecting 100 around 120 m high concrete towers for 2 MW wind turbines type HZ111 and GW115. Each concrete mast consists of 30 reinforced concrete elements. The lower 18 sections are produced as semi-circular elements, the upper twelve as complete circular elements.

Issues encountered

The main challenges that the customer was facing were:

- Inefficient filling of the approximately 200 moulds per production site
- Highly tight reinforcement of the elements, making it difficult to fill from the top
- Needed reduction in crane use and process time
- Failure to achieve optimization of surface quality.

Seeking solution

After the initial results with a previously used standard piston pump were not satisfactory, the customer approached RATEC to find an optimal solution. First, a suitable concrete filling connection was developed. With a diameter of 125 mm, this newly developed inlet can be used without any problems anywhere where moulds are filled using a standard piston pump, which typically has a hose diameter of 125 mm. In the next step, the customer

Advantages of Ucrete pumping technology:

- Uses self-compacting concrete (SCC)
- Complete filling of even the most awkward geometries
- Formwork filled with concrete pumped upwards from below
- In situ production of complex concrete units
- Smooth form finish surfaces all round
- No screeding or smoothing of surfaces
- Minimal quantities of concrete residue
- Maximum dimensional accuracy of parts
- Quiet, minimal waste of materials, efficient and ecological concrete elements production
- Shorter formwork laying times.

decided to also use Ucrete pumping technology and installed the UPP10 pump station at both production sites. Concrete is supplied by a transport mixer, which is directly coupled to the pump and makes the use of a concrete bucket unnecessary. Thus, the desire for a reduction of crane capacity could be fulfilled.

The project demonstrates that Ucrete technology can be easily integrated into an existing project without interfering with the production processes and at the same time leads to an increase in element quality and process optimization.

RATEC GmbH
www.ratec.org
 Hall & Stall: 1 / C-98

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GLIMPSES@



Caterpillar India Private Limited
www.caterpillar.com
Hall & Stall: Outdoor Area, OD 78



Wipro Infrastructure Engineering
www.wiproinfra.com
Hall & Stall: 1(Lower Level)/A9



Wirtgen India Pvt Ltd
www.wirtgen-group.com
Hall & Stall: Outdoor Area, OD 14



Puzzolana Machinery Fabricators (Hyderabad) LLP
www.puzzolana.net
Hall & Stall: Outdoor Area, OD 42



Ajax Fiori Engineering (I) Pvt
www.ajax-fiori.com
Hall & Stall: Outdoor Area, OD 41



ITR Middle East FZCO
www.itrmiddleeast.com
Hall & Stall: 3 (Lower Level)/A23

EXCON 2017



Tadano India Pvt Ltd
in.tadano.com
Hall & Stall: Outdoor Area, OD 48



Leeboy India Construction Equipment Pvt Ltd
www.leeboyindia.com
Hall & Stall: Outdoor Area, OD 7



Ognibene India Pvt Ltd
www.ognibene.com
Hall & Stall: 1(Lower Level)/B24



Mahindra & Mahindra Ltd
www.mahindra.com
Hall & Stall: Outdoor Area, OD 77



Tata Motors Limited
www.tatamotors.com
Hall & Stall: Outdoor Area, OD 12



Kobelco Construction Equipment India Pvt Ltd
www.kobelconet.in
Hall & Stall: Outdoor Area, OD 44

Source: Magic Wand Media Inc

Light Towers

Innovations galore

Atlas Copco is focussing on its new products, recent launches, live demos, and high-level customer interactions to heighten the EXCON experience for its customers.

“EXCON is an ideal setting for equipment manufacturers to showcase their offerings since local and overseas visitors participate to discover the changing trends in products and technology on this global platform,” said Nitin Lall, General Manager, Power Technique Customer Center, Atlas Copco (India) Ltd.

The company is showcasing some of its key products from its impressive range including portable compressors, light towers, handheld breakers, light compaction equipment and concrete range, and has its focus on contractors and medium to large corporations in the infrastructure and construction segment.

Highlights

Atlas Copco has launched its new variant of Light Tower and Dual Pressure Air Compressor and also highlighted the new technology used to enhance the productivity of the product.

Its FleetLink technology enables customers to monitor and control their machine fleet efficiently and conveniently. This intelligent system offers many possibilities to optimize fleet usage, reduce maintenance cost, and save time and money.



Source: Atlas Copco (India) Ltd



“EXCON is an ideal setting for equipment manufacturers to showcase their current and new offerings in products and technology since local and overseas visitors participate to discover the same on this global platform.”

Nitin Lall
General Manager,
Power Technique Customer Center,
Atlas Copco (India) Ltd

Knowing HiLight V5+

The CPCB II compliant LED light tower with HardHat canopy is now made in India by Atlas Copco. The HiLight V5+ from Atlas Copco offers advanced LED solutions. It is claimed to be the safest and most efficient light tower for road construction, airports, hydro power projects, mining, and construction applications.

The HiLight V5+ can illuminate an area of approximately 5,000 sqm with an average brightness of 20 lux while consuming less than 0.7 lt of fuel per hour. Other features include:

- High efficiency LED of 4 X 350 W;
- Special optics designed by Atlas Copco provides maximize light coverage;
- Instant light
- Dedicated power pack for LED application working at the right power load;
- The manual vertical mast (Electric Winch Option) can be rotated quickly and easily to light a different area while fully extended to its maximum height of 7.5 m;
- As the emitted light from LEDs is close to natural light sources, it delivers the correct tone of light;
- The fully directional optic lens maximizes practical light coverage while minimizing ‘dark spots’, thereby improving visibility on the site for enhanced worker safety and comfort;
- LED lamp has a life expectancy of 30,000 hours.
- Each lamp can withstand a baseball impact thrown at a speed of 100 MPH.

Atlas Copco (India) Ltd
www.atlascopco.com/en-in
Hall & Stall: Outdoor OD-11 (Orange Lot)

Material Handling and Road Building Solutions

TIL launches new Cranes and Reach Stacker at EXCON 2017

TIL Ltd has launched several products at EXCON. The latest entrant in the pick-n-carry crane segment, MOBILOAD 315 has a maximum capacity of 15 MT at 2.5m radius over front for pick-n-carry operations and 8 MT at 2.5 m radius for 360o slew on-tyre duties. Continuous 360o slew is another unique feature that allows for efficient load handling. The ergonomically designed single man cabin enable the carriage of long items on the carry deck, subject to a maximum of 2 ton at a road speed of 15 km per hour. The machine features an electronic load moment indicator to ensure safe operations.



Source: TIL Ltd

Hyster-Yale Group Inc. and TIL presented the new model Hyster TIL RS45 which has been developed specifically to meet the demands of ports and other tough container handling applications in

growing markets. To optimise effectiveness, the new truck features a powerful Cummins QSL9 Stage IIIA engine/Tier 3 in combination with a Spicer off-highway TE-27 transmission.

TIL Ltd
www.tilindia.in
Hall & Stall: Outdoor Area OD-4

Over-tyre-tracks

Trident's OTTs for Skid Steer Loader

To augment the capability of Skid Steer Loaders, Trident has developed over-tyre-tracks (OTTs) that significantly increase traction and flotation to enable skid steer loaders operate in virtually any service environment. The OTT consists of pivotally interconnected reinforced steel segments that are looped over the tyres and the open ends are fastened to make an endless track chain/belt thus providing tracked mobility with high flotation, usually within an hour. It thus bridges the gap between wheeled and tracked mobility by converting the wheeled skid loader into a tracked loader.



Source: Trident International P Ltd

Its special features include a hardened, high flotation profiled steel track shoe to ensure that there is no damage when operating on paved surfaces, adjustable track

length to suit machines of different wheelbase lengths and easy mounting and demounting that can be done on site. The robust steel construction also provides a high degree of damage protection to the tyres. Optional accessories such as wheel spacers, mounting assistance toolkit, bolt-on rubber pads are also available.

Trident International P Ltd
www.trident-intl.com
Hall & Stall: 2 / B-18

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12-16, December 2017
Hall #3, Stall C275
BIEC
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Backhoe loader

Building the India of tomorrow

This year, Tata Hitachi's stall showcased the company's commitment to the theme of Chalo Desh Banaye. Sandeep Singh, Managing Director, Tata Hitachi, mentioned, "At EXCON 2017, our star attraction was the unveiling of our all new backhoe loader - Tata Hitachi SHINRAI, built in collaboration with Tata Technologies and Hitachi Construction Machinery, Japan. SHINRAI is a Japanese word which is a synonym for trust, reliability and confidence."

Other launches at the Tata Hitachi booth included ZAXIS140H; EX210 Super quarry variant; EX210 Super with an indigenous super long front attachment; and INSITE – a new telematics suite for the EX series of hydraulic excavators and wheeled products. The other high point of the Tata Hitachi stall was the display of the ZH200 – a revolutionary hydraulic excavator armed with hybrid technology. Also on display was EX70H, an excavator custom built for quarry and heavy-duty applications; EX110 shovel variant, a first one of its kind in the 10T category; ZAXIS370LCH, custom made for quarry and granite applications; and the super productive and fuel-efficient ZAXIS470H, enabled with ConSite.

Source: Tata Hitachi Construction Machinery



Line-up in front of the Tata-Hitachi launch machine

Line-up in front of the Tata-Hitachi launch machine

Tata Hitachi Construction Machinery
www.tatahitachi.co.in
Hall & Stall: Outdoor OD – 31 & 34

Tête-à-tête

In the spirit of partnership

Devendra Kumar Vyas, CEO, Srei Infrastructure Finance, on the exciting schemes the company has in store for its manufacturer partners at EXCON 2017.

"The event provides us a perfect platform to meet our key stakeholders and understand their needs. For the current edition of EXCON we have tied up with leading reputed global equipment manufacturers and are coming up with a lot of exciting schemes for our customers. Our focus is to provide customised financing solutions covering the entire asset life-cycle to our customers. We will also be launching exciting leasing and loyalty schemes. Our customers can also participate in commercial games to win attractive interest rates and terms.

As a tradition, we organized a get-together called 'Milap' with all our manufacturer partners on the eve of the inaugural day. Milap celebrates the spirit



Devendra Kumar Vyas
CEO
Srei Infrastructure Finance Ltd

of partnership and acknowledges the support and contribution of our manufacturer partners in our growth."

Srei Infrastructure Finance Ltd
www.srei.com
Hall & Stall: Outdoor OD-27

Bolting Solutions

Hi-Force Hydraulic Torque Wrenches

Hi-Force is the UK's leading manufacturer and supplier of hydraulic tools and bolting equipment. Headquartered in Daventry, United Kingdom, with regional offices in nine locations and a distributor network covering over 100 countries, the company offers over 2,000 products which are available to users anywhere in the world.



Source: Hi-Force Ltd

suitable for continuous operation at maximum pressure. The TWH-N low profile hydraulic torque wrenches offer a choice of output torque capacities from 2,625 to 48,181 Nm. Manufactured from high-grade aluminium, all models provide direct in-line reaction and a minimal radius clearance for easy fitment in confined spaces. The user-friendly design of the tool simply requires the operator to withdraw/insert a single



Range of models

Part of this extensive product offering are hydraulic torque wrenches, designed to handle the toughest bolting jobs accurately and quickly. The TWS-N square drive lightweight aluminium torque wrenches incorporate an easily reversible high-grade alloy steel square drive allowing the user to quickly switch from tightening to loosening applications. With torque capacities up to 36,992 Nm and square drives from ¾ in. to 2 ½ in., the TWS-N wrenches are

pin to change the ratchet head. Ratchet heads for use with the TWH-N range are available in all standard metric and imperial AF sizes from 24 to 175 mm. A range of torque wrench pumps compatible for use with the hydraulic torque wrenches are also available.

Hi-Force Ltd
www.hi-force.com
Hall & Stall: 1 (Lower Level) / C-64

IESC & COAOI sign MoU to enhance skill scene



(From L-R) HS Mohan, CEO, IESC; Anand Sundaresan, Chairman, IESC and Mitesh Shethia, President, COAOI at the signing of MoU.

Infrastructure Equipment Skill Council (IESC) which is spearheading the skilling of workforce in the infrastructure equipment sector has, over the past three years since its formation, established a strong foundation in the skill ecosystem. The Council has formulated NOS (National Occupational Standards) & QPs (Qualification Packs) for all the major products covering over 80% of the workforce in the industry, with primary focus on training and certification of operators and mechanics at National Skills Qualification Framework (NSQF) Levels 3 and 4. With a pan India

presence through its accredited Training Partners, majority of whom are OEMs, IESC has so far trained close to 5000 personnel. As part of its ambitious plan to transform the skill landscape in the industry, the council, which is participating in the EXCON 2017, has signed an MOU with the Crane Owners Association of India (COAOI) for training and certification of their operators and mechanics. The agreement was reached with the pro-active support of Deepak Garg, Managing Director, Sany Heavy Industry India Ltd, a leading manufacturer of material handling equipment.

Source: Infrastructure Equipment Skill Council

Earthmoving Machinery

Volvo CE showcases latest products and full line offering

Volvo CE features a wide spectrum of industry-leading products at EXCON 2017. Dimitrov Krishnan, Vice president & Head, Volvo CE India, said the event is a perfect platform to highlight the company's unique position in supporting India's ongoing infrastructure buildout. The new EC200D excavator, specifically designed for general construction work was launched at EXCON 2017. Featuring Volvo's famed fuel efficiency, the new machine also has a bucket breakout force of 123 kN and an arm tearout force of 96 kN. Excavators -- the 20-ton rated EC210D and the largest 90-ton rated EC950E -- are being showcased too. From its wide range of road building machines, the P6820C ABG tracked paver; the DD90B



Volvo CE's Excavator displayed at EXCON 2017

Source: Volvo CE

asphalt compactor; and the SD110BA soil compactor are also being displayed at the show. The P6820C ABG offers paving widths of upto 10 m and comes equipped with a 142 kW-rated Volvo engine. Its paving output can reach up to 700 ton per hour.

Volvo CE
www.volvoce.com
Hall & Stall: Outdoor 23

Mining Equipment

Nakoda Machinery launches products for mining applications

Pune-based Nakoda Machinery is a core manufacturing company under the brand flagship of 'Indus Rock Tool'. A known brand in Mining and Construction Equipment, it is here at EXCON 2017 to exhibit its wide array of products including new generation of Crawler Drills; Blast Hole Drills; and a range of Excavator attachments, Vibro Ripper.

Nakoda Machinery has launched its 100-ton Class Rock Breaker model RB 7580 suitable for 80-120 class excavators in mining applications. The company has also introduced a wide range of Vibro Ripper. It is an attachment on different capacity excavators mainly in Mining applications where soft and crack rocks exist.

A Heavy-duty Crawler Toe Drill is another product launched used for toe hole drilling applications, especially in granite and marble industry. The Drill can easily work 180 degree holes and is a very good substitute for high-cost imported drill.



Source: Nakoda Machinery Pvt Ltd

The launch of Nakoda Machinery's 'Indus Rock Tool' products at EXCON 2017.

Nakoda Machinery Pvt Ltd
www.indusrocktool.co.in
Hall & Stall: Outdoor OD 33

Heavy Earthmoving Equipment Parts

Ground Engaging Tools from BYG Spain

For 50 years BYG S.A. has been manufacturing quality wear parts for heavy earthmoving equipment for the mining and quarrying industries.

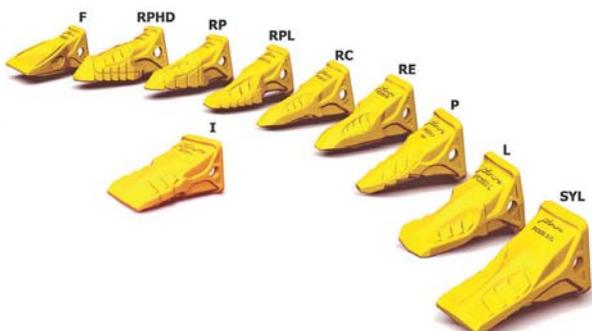
Any existing Teeth Design can be improvised, using design and material innovations. That's the essence of BYG's FUTURA Concept, designing and developing Teeth systems such that they fit on to existing systems.

FUTURA teeth are generally heavier than other competitor's teeth in the same category size and models. The additional steel has been added in key areas where the tooth is subject to wear. FUTURA RANGE has approximately 20% more usable wear material than other similar systems in the market.

It is not just the length of the tooth or the percentage over the total weight. What really counts is the total wear material weight. You

can find high ratios, but less weight means fewer cycles achieved. FUTURA teeth last many more cycles. More material is added on bottom lateral ribs and around the box section providing superior penetration shape and maintaining pocket integrity. FUTURA Range of G.E.T. from BYG feature an innovative design that helps increase the life of a Tooth and improves its efficiency in every application. Add to that the latest concept of HAMMERLESS Teeth, which increases safety and efficiency of a change-over. BYG FUTURA range of Ground Engaging Tools are on display at SHANTILAL C. MEHTA Booth at EXCON 2017.

Source: Shantilal C. Mehta (SHANPARTS)



Raised central ribs, lateral ribs and recessed pocket help material flow, significantly extend tooth wear life and increase sharpness properties providing better tooth penetration, maintaining sharpness without reducing tooth resistance. More than 89% of wear steel is consumed on FUTURA worn teeth compared to new ones. Thanks to its optimal design more than 68% of steel has been used without losing teeth sharpness.

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Shantilal C. Mehta (SHANPARTS)
www.shantilalcmehta.com
Hall & Stall: 3 / B-177

Gearred Motors

Innovation is power

Power Build Pvt Ltd, a leading provider of high-quality standard and custom engineered geared motors, aims to make the most of the constructive spirit of EXCON 2017.

The company has launched its Planetary Gearbox range during the show to re-emphasize its offering of PL and PR range. Radicon Planetary range of smart Planetary Geared Motors and Reducers provide an ideal solution for inline and right-angled applications with high ratios up to 2,500:1 in a limited space. Unit sizes include: PL - 01, 02, 03, 05, 08, 12,



PL Series Planetary Geared Motor

Source: Power Build Pvt Ltd

16, 25, 40, 65; PR - 01, 02, 03, 05, 08, 12, 16, 25, 40, 65. The product has an Input Power of 0.12 kW to 55 kW and Output Torque of up to 65,000 Nm. Gear Ratios are 3.6:1 to 3200:1. The product has a range of options on the output side to suit the customer's needs. Output options include: Output shaft to suit connection with shrink disc; Output shaft with keyway Hollow; Output shaft with external spline; and Output shaft with internal spline. Motor Sizes include IEC Frames from 90 to 200.

Power Build Pvt Ltd
www.pbl.co.in
Hall & Stall: 3 (Lower Level) / A-64

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