



thyssenkrupp

Press Release

Industrial Solutions

September 19, 2016
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thyssenkrupp exhibits a new range of machines and asset management services at MINExpo INTERNATIONAL® 2016

- The world's largest gyratory crusher: KB 63-130
- Upgraded Kubria® series of cone crushers with increased throughput capacity
- Next generation compact bucket wheel excavators pierce hard rock up to 50 MPa in compressive strength
- Energy-balanced skip conveyor system lowers operating and manpower costs
- Customer-centric, customized 360-degree lifecycle services focus on asset management and wear parts management

The Industrial Solutions business area of thyssenkrupp presents hands-on technology and a wide range of new products at MINExpo INTERNATIONAL® 2016 in Las Vegas, from September 26 through 28 (North Hall, booth #3051). As a leading engineering, construction and service provider, thyssenkrupp exhibits its groundbreaking new solutions and products for mineral processing, mining and materials handling.

Machines for processing mined materials, equipment models, and virtual reality simulations of the world's largest gyratory crusher are just some of the highlights of thyssenkrupp's booth at MINExpo 2016.

Advanced machines for processing hard rock and coal: Kubria® G 90 cone crusher

thyssenkrupp offers a complete range of advanced crushers, screens and feeders for plants and modular systems in raw materials processing. A recently completed standardization program now allows thyssenkrupp to offer its machines at lower prices with shorter delivery times. The company's exhibit includes its 12 mt Kubria G 90, an example of the upgraded Kubria cone crusher series.¹ By systematically enhancing and optimizing the proven Kubria design, thyssenkrupp has managed to further increase the throughput of its cone crushers. The thyssenkrupp Jaw Crusher, RollSizer, Feeders and Screens now cover the entire range of applications from primary to tertiary reduction of hard rock, coal and other minerals.

High-pressure grinding roll: POLYCOM®

With numerous POLYCOM grinding roll installations across a variety of industrial sectors, thyssenkrupp Industrial Solutions is a worldwide market leader for comminuting copper ore,

¹ Kubria is a registered German trademark.

gold ore, iron ore, diamond ore, platinum ore, coal, granulated blast furnace slag, limestone, cement clinker and other mineral raw materials. POLYCOM HPGR units are designed for throughput rates in excess of 5,000 mtph. The pilot POLYCOM grinding roll is on display at thyssenkrupp's booth.

World's largest gyratory crusher: KB 63-130 – higher performance, lower weight

Visitors to MINExpo can experience a virtual reality simulation of the world's largest gyratory crusher, the thyssenkrupp KB 63-130. The KB 63-130 sets new standards with a drive rating of 1,500 kW, and at 490 mt, it weighs in much lighter than its predecessor, despite a roughly 14 percent larger mantle diameter of 130 inches (approx. 3.3 meters). Though the new model is the same height as other crushers in thyssenkrupp's 63-inch series, the larger mantle diameter of the KB 63-130 produces a 30 percent higher throughput, allowing for significantly higher performance at a lower weight.

Next generation of compact bucket wheel excavators: "Barracuda" and "Mine Shark"

To demonstrate thyssenkrupp's new compact bucket wheel excavators to MINExpo visitors, a virtual reality simulation of the "Barracuda" and the "Mine Shark" highlights the machines' abilities to mine harder materials with compressive strengths up to 50 MPa (7,200 psi). thyssenkrupp created special bucket and tooth designs to enable the machines to work in a wide range of materials and working conditions. The excavators combine mining and loading operations in a single machine, eliminating the need for hazardous and ecologically harmful blasting work and separate loading operations. Delivering throughputs of more than 3,000 mtph with reduced vehicle and manpower requirements, the new thyssenkrupp compact bucket wheel excavators also significantly reduce operating costs.

A new approach to steep-angle material transportation: "Skip Way System"

thyssenkrupp also presents its new "Skip Way System," which makes it possible to transport hard rock, ore or overburden from a mine more efficiently by the shortest direct route while at the same time significantly improving the carbon footprint of the mine.

Based on proven cable crane technology from thyssenkrupp, the Skip Way System aims to reduce truck traffic within mines. It uses skips charged with uncrushed material at truck unloading stations at the bottom of an open pit mine. With a handling capacity of up to 2,000 mtph, the skips are fitted with wear plates and slide rails. The skips are suspended from two parallel track ropes, one set for each direction, in vibration-dampening support frames and carriage assemblies. The deadweight of the skips is fully counterbalanced at all times, so energy only needs to be expended to raise the minerals to the top of the mine.

360-degree lifecycle management: A focus on asset and wear parts management

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Building on its longstanding industry expertise, thyssenkrupp introduces its 360-degree lifecycle services, which offer customers solutions throughout the entire lifecycle of mines and plants – from spare parts supply and management and field services, to asset management. By utilizing thyssenkrupp's proactive and holistic approach, the Integrated Asset Management solution helps to increase plant performance and reduce total cost of ownership.

To address the growing need for innovative lifecycle and predictive maintenance solutions, thyssenkrupp formed a new wear parts team focused on the development of advanced wear solutions that reduce downtimes and ensure the best possible cost-benefit ratio for each customer, such as the new solution for vibration screens.

About thyssenkrupp Industrial Solutions:

The Industrial Solutions business area of thyssenkrupp is a leading partner for the engineering, construction and service of industrial plants and systems. In addition to mining, ore processing and port handling equipment, its portfolio also includes chemical, coke, refinery, cement and other industrial plants, along with corresponding services. In the naval sector, thyssenkrupp is a leading global system supplier for submarines and surface vessels. As an important system partner to our customers in the automotive, aerospace and battery industries the company optimizes the value chain and improves performance. In collaboration with its customers, thyssenkrupp develops top-quality solutions and delivers efficiency, reliability and sustainability over the entire life cycle. Around 19,000 employees at over 70 locations form a global network with a technology portfolio that guarantees maximum productivity and cost-efficiency.

For more information visit: www.thyssenkrupp-industrial-solutions.com.

About thyssenkrupp in North America:

thyssenkrupp North America, Inc. oversees more than 400 facilities in the United States, Canada and México. In fiscal year 2014/2015, thyssenkrupp generated sales of approximately €9.8 billion (\$11.25 billion) in the region, accounting for almost 23 percent of the Group's total sales. This makes the region the Group's biggest sales market after Germany and other member countries of the European Union.

For more information visit: www.thyssenkrupp-north-america.com

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