

Bauma China 2016 preview: Zoomlion 4.0 cranes

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At the coming **Bauma** China, multiple types of 4.0 cranes from **Zoomlion**, such as special chassis **truck crane**, general chassis crane and **crawler crane**, will debut together to demonstrate the outstanding achievements made by the "Product 4.0 Project".

King of Performance, Star of Power: ZTC Special Chassis Truck Crane to Create an "Intellectualized" Future

The ZTC250 truck **crane** is the first "intellectualized" truck crane released after the launch of the "Product 4.0 Project". The ZTC250 models to be exhibited this time are ZTC250V (3-bridge) and ZTC800V (4-bridge).

ZTC250V is coated in a novel and fashionable way, and equipped with a powerful chassis, a powerful engine, two highly-comfortable cabs and an operable onboard intelligent system, performing better in lifting than the other products with the same tonnage in the industry.

In particular, ZTC250V is equipped with a 42m, 5-section, U-shaped main boom. The longest boom of the industry makes it superior to the other products with the same tonnage (35t) in term of comprehensive lifting performance. Also, the basic boom and the fully-extended boom are optimized in term of maximum lifting moment. Given medium-duty and low-duty cranes are required to move frequently in practice, this product is equipped with an energy-saving system based on the intelligent power technology that enables automatic and semi-automatic control of accelerator. When bearing high, medium and low loads, such system will save fuel by 8% on average and more than 20% at most.

In addition, this product is upgraded comprehensively for the purpose of intelligence. The all-round onboard information platform is linked to the intelligent terminal to enable a user to easily learn working conditions and abnormalities through APP, and give timely prompts on maintenance.

ZTC800V, being a 4.0 intelligent product honored as "a truck crane SUV", has the characteristics of high performance, flexibility, stability and reliability.

ZTC800V is uniquely equipped with a standard 3-section jib, and a 49m, 5-section, U-shaped main boom, which is longest in the industry. Therefore, its comprehensive lifting capacity is 5%-30% higher than the other

products with the same tonnage. The innovative plate-type boom head and the compact boom tail constitute the optimal lap joint, and increase the bearing capacity of the boom. The 2nd-generation free extension technology, which was innovatively developed by Zoomlion, stabilizes the boom in change of length, and makes the overall crane more invulnerable to rollover. The chassis with high bearing capacity allows multiple combinations of counterweights, so that the crane can work and move more flexibly. Furthermore, for the purpose of higher stability, this product is customized with the function of low gear for hoisting, luffing, rotation and extension. The minimum rotating and lifting speeds are $0.1^{\circ}/s$ and $2.5m/min$, respectively, which meet requirements for precise lifting. As to reliability, Zoomlion cooperated with CEPREI to conduct multiple reliability tests. According to the test results, the MTBF of ZTC800V is 30% longer than those of ordinary products.

Besides, the intelligent multi-power energy-saving system of ZTC800V reduces the average fuel consumption down to $4.5L/h$ (comprehensive fuel saving rate: 20%). On the whole of this product, systemic noise-reducing measures are taken to bring it up to the highest CE standards concerned.

Compare to like products, Zoomlion's ZTC truck cranes perform better in lifting, movement and energy saving. These "king-of-performance" products are masterpieces of the "Product 4.0 Project".

A Dominating and Trend-setting Lifter: ZTF General Chassis Truck Crane

As the 4.0 products put on the market simultaneously with ZTC cranes, depending on outstanding performance, the two ZTF models to be exhibited at Bauma China take the lead to chase after overseas truck cranes and fill in the domestic gap of general chassis truck crane.

ZTF250V is equipped with a 42m, 5-section, U-shaped main boom. The longest boom of the industry makes it superior to the other products with the same tonnage in term of comprehensive lifting performance. Also, the basic boom and the fully-extended boom are optimized in term of maximum lifting moment. Supported by the new-generation "MAN" technology, the 7L engine reduces the fuel consumption per 100km down to 26L. In combination with the 7L engine, the variable displacement pump and the energy-saving hydraulic system save fuel by more than 20%. Besides, this product has a luxury heavy-duty cab and wide seats. Such humanized, considerate details make the driver comfortable, and the standard panoramic stuffing cab can bring out convenient, safe experience during operation.

Another model to be exhibited, ZTF550V, takes the lead in comprehensive lifting performance. The 45m, 5-section, U-shaped main boom is longest in the industry. The innovative plate-type boom head and the compact boom tail constitute the optimal lap joint, and increase the bearing capacity of the boom. The 2nd-generation free extension technology, which was innovatively developed by Zoomlion, stabilizes the boom in change of length, and makes the overall crane more invulnerable to rollover. In addition, ZTF550V is installed with a load-sensing rotation system and a proportional speed-regulating main valve. The minimum rotating and lifting speeds are $0.1^{\circ}/s$ and $2.5m/min$, respectively, which meet requirements for precise lifting. Combining power with aesthetics, the green, environment-friendly, fashionable, novel coating brings out intensive visual enjoyment.

Excellent Performance, Lean Production: ZCC2600CR Crawler Crane to Debut at Bauma China

ZCC2600CR, a large-size crawler crane elaborately designed by Zoomlion with 4.0 technologies, is equipped with an upgraded safety monitoring system that assures operating safety through real-time inspection and monitoring. Attributed to systemic basic research, the key parts work reliably with longer service life. Operating 20% faster than before, this product works in a high-efficiency, compound way without deceleration. It can lift an object up to 36.5t and 3m (width), meeting road transport requirements of different countries.

In addition, this product has an all-round onboard information platform that enables stereoscopic monitoring during operation. The IoT-based intelligent interaction system responds to service demands instantly and considerately.

Longest Boom, Highest Lifting Capacity: ZAT1500 5-brige All-terrain Crane Is Coming

As the all-terrain crane with the longest boom and the highest lifting capacity among the products of the same level, ZAT1500 is equipped with a 7-section high-strength oval main boom as long as 72m and a 3-section lattice jib (26.6m long). This product (maximum lifting height: 95m) is installed with a non-road EFI diesel engine and an AMT (automated manual transmission), and has a power as high as 390KW. The whole of the bridge is rotatable, and supports multiple rotating modes, thereby meeting more complicated road conditions. ZAT1500 has obtained the EN13000 certificate, which demonstrates that its safety performance

reaches the EU standards concerned. The outstanding performance represents the supreme level of the industry, and goes beyond customers' expectations.

The cranes to be exhibited this time represent the amazing charm of technology and green, in all aspects. During the event, these aces of Zoomlion's products will fully demonstrate Zoomlion's enormous R&D strength and ambition of catching up with and surpassing the advanced world levels.

Source: Zoomlion