

High-rise Construction Truck Mounted Crane - Official Technical Overview & Datasheet

EXECUTIVE SUMMARY

The modern urban skyline demands equipment that combines raw power with the finesse to operate in congested environments. Our High-rise Building Construction Truck Mounted Crane is engineered to meet these challenges head-on, redefining the standard for vertical material handling. This machine masterfully bridges the gap between the static positioning of a tower crane and the rapid mobility of a traditional mobile crane, offering a unique value proposition for high-rise construction, infrastructure development, and heavy industrial projects.

This truck-mounted crane delivers class-leading lifting performance, advanced hydraulic precision, and unmatched site-to-site transportability, significantly reducing project timelines and logistical overhead. Whether lifting structural steel, prefabricated concrete, or mechanical equipment to the uppermost floors, this machine is designed for maximum productivity and safety. Its robust powertrain, combined with a compact footprint and intelligent control systems, ensures rapid deployment and efficient operation, making it the premier choice for contractors who demand reliability and performance in high-stakes environments.



STRUCTURAL INTEGRITY & POWERTRAIN

At the core of this machine is a chassis constructed from high-strength, wear-resistant steel, engineered to withstand the torsional stresses of heavy lifting and the rigors of daily road travel. The superstructure features a high-strength steel boom, often utilizing advanced fabrication techniques like MEGAFORM for optimal strength-to-weight ratios, ensuring long-term durability and resistance to fatigue.

The powertrain is the heart of the system, featuring a high-performance, fuel-efficient diesel engine from industry leaders such as Cummins or Mercedes-Benz, designed to meet stringent emission standards like EPA Tier 4 Final and EU Stage V. This engine is mated to a highly efficient transmission and

load-sensing hydraulic system. The hydraulics are engineered for precision, providing smooth, proportional control over all crane functions, which enhances operator control and reduces the risk of load-sway. This system ensures that the machine delivers maximum power exactly when and where it's needed, optimizing fuel consumption and lowering operational costs.

KEY FEATURES & OPERATOR COMFORT

- Load-Sensing Hydraulic System: Provides precise metering and flow control for all lifting and boom functions, ensuring smooth operation, enhanced fuel efficiency, and superior load handling accuracy.
- Advanced Operator Cab: Features a tilting, ROPS/FOPS certified cab with panoramic visibility, climate control, and a 7-inch high-definition display for the Load Moment Indicator (LMI) system. The intelligent control panel is ergonomically arranged for intuitive operation, minimizing operator fatigue during long shifts.
- High-Performance Boom System: Featuring a multi-section telescopic boom with a proven, robust extension system. This provides an exceptional lifting height and reach, enabling the crane to service the highest floors of a building under construction.
- Telematics & Remote Diagnostics: Built-in telematics systems like RootCloud enable real-time machine monitoring, health diagnostics, and fleet management, ensuring maximum uptime and optimizing service intervals for

reduced total cost of ownership.

- Rapid Deployment Outriggers: Equipped with a versatile outrigger system that allows for full or half-extension modes. This provides a stable lifting platform while allowing the crane to operate in the tightest urban job sites without compromising lifting capacity.

COMPLIANCE & SAFETY STANDARDS

The truck-mounted crane is designed and manufactured in accordance with the highest global safety and quality standards. The machine is rigorously tested to meet or exceed ISO 9001 quality management standards. It features a comprehensive safety system including a precise Load Moment Indicator (LMI), anti-two block system, overload protection, and emergency stop mechanisms. The crane is fully compliant with CE and EPA Tier 4 Final emission regulations, ensuring it meets environmental standards for operation in global markets.

TECHNICAL SPECIFICATIONS

The following table provides a detailed overview of the high-rise truck-mounted crane's key technical parameters. Please note that specifications may vary based on model and configuration. For specific model details and options, please consult your local dealer.

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8px; border: 1px solid #ddd;'>Engine Model</td> <td style='padding: 8px;
border: 1px solid #ddd;'>Cummins X12 (or equivalent)</td> </tr> <tr> <td
style='padding: 8px; border: 1px solid #ddd;'>Engine Power</td> <td
style='padding: 8px; border: 1px solid #ddd;'>354 kW (475
HP)</td> </tr> <tr> <td style='padding: 8px; border: 1px solid #ddd;'>Max
Lifting Capacity</td> <td style='padding: 8px; border: 1px solid #ddd;'>Up to
110 Tons (100,000 kg)</td> </tr> <tr> <td style='padding: 8px; border: 1px
solid #ddd;'>Max Lifting Height</td> <td style='padding: 8px; border: 1px
solid #ddd;'>Up to 64 m (210 ft)</td> </tr> <tr> <td style='padding: 8px;
border: 1px solid #ddd;'>Max Horizontal Reach</td> <td style='padding: 8px;
border: 1px solid #ddd;'>Up to 101 m (331 ft)</td> </tr> <tr> <td
style='padding: 8px; border: 1px solid #ddd;'>Telescopic Boom</td> <td
style='padding: 8px; border: 1px solid #ddd;'>4 to 6 Sections, up to
60m</td> </tr> <tr> <td style='padding: 8px; border: 1px solid
#ddd;'>Emission Standard</td> <td style='padding: 8px; border: 1px solid
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