

Demolition Excavator - Official Technical Overview & Datasheet

EXECUTIVE SUMMARY

Engineered for the most demanding structural dismantling projects, this Demolition Excavator represents the pinnacle of heavy machinery design. Designed as a specialized solution for the Construction and Demolition sectors, it offers unparalleled reach and power for high-rise building tear-downs, bridge removals, and industrial facility clearances. By combining a high-strength, reinforced undercarriage with a versatile ultra-high-reach front linkage, the machine delivers the precision and force required to safely and efficiently handle multi-story demolition tasks .

As the industry shifts towards safer, more controlled dismantling methods, this excavator stands out with its integration of smart technology and operator-centric safety features . The unit's primary value proposition is its ability to maximize productivity without compromising on safety. From its modular boom configurations that allow for rapid attachment changes to its advanced stability monitoring systems, this excavator is engineered to provide a superior return on investment by reducing downtime and enhancing operational confidence on complex jobsites .



STRUCTURAL INTEGRITY & POWERTRAIN

The Demolition Excavator is purpose-built to withstand the extreme forces and potential impacts inherent in structural demolition. The chassis and undercarriage are constructed from high-grade, reinforced steel, designed to absorb stress and resist deformation. This robust structure is complemented by heavy-duty revolving frames and guards that protect critical components from falling debris, ensuring long-term durability in harsh working environments .

At the heart of the machine lies a powerful, high-efficiency engine, such as the renowned Cat C13 or the Scania DC9, delivering the necessary horsepower to power through tough materials . This engine is paired with an advanced electro-hydraulic system that provides precise control and high fuel efficiency. The powertrain is designed to meet stringent emission regulations, including

U.S. EPA Tier 4 Final and EU Stage V standards, ensuring clean operation without sacrificing performance . The high-efficiency hydraulic fan cools the engine on demand, further contributing to fuel savings and reduced operational costs .

KEY FEATURES & OPERATOR COMFORT

- Modular Boom & Versatility: The machine features a versatile modular boom design, allowing for quick and easy changes between demolition and earthmoving configurations without the need for tools. This adaptability enables contractors to use the same machine across multiple applications, maximizing its utility and providing an excellent return on investment .

- Advanced Stability Monitoring: A sophisticated stability monitoring system provides the operator with real-time feedback on the machine's center of gravity. This system continuously informs the operator of the work tool's position within the safe working range and issues warnings when approaching the stability limit, significantly enhancing jobsite safety .

- High-Visibility Tilting Cab: The cab is designed with operator safety and visibility as a priority. It features a tilting function (up to 30 degrees) which provides an excellent view of the elevated work area, reducing operator fatigue and increasing precision . The cab is fully certified with Operator Protective Guards (OPG) and P5A high-resistance polycarbonate windows to protect against falling debris .

- Smart Technology Integration: The excavator is equipped with an intuitive, high-resolution touchscreen monitor. The interface allows for easy setup of attachment flows and pressures for up to 15 different tools and simplifies the process of reordering work tool lists . Standard technologies like Cat Payload and 2D Grade systems further enhance efficiency by enabling on-the-go weighing and depth/slope guidance .

COMPLIANCE & SAFETY STANDARDS

The Demolition Excavator is manufactured to meet and exceed the most rigorous global safety and quality standards. The machine is fully compliant with CE certification and ISO 9001 quality management standards. Engine emissions meet the strict requirements of U.S. EPA Tier 4 Final and EU Stage V regulations . Safety is further ensured through compliance with ROPS/FOPS cab standards and the implementation of standard safety features such as boom cylinder safety valves, undercover protection, and a stability warning system to prevent tipping .

TECHNICAL SPECIFICATIONS

The following table provides an overview of the key technical parameters for a leading configuration of the Demolition Excavator. Specifications may vary

based on the specific front attachment configuration and undercarriage type.

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<table border='1' style='border-collapse: collapse; width: 100%;'><tr><th style='padding: 8px; text-align: left; background-color: #f2f2f2;'>Parameter</th><th style='padding: 8px; text-align: left; background-color: #f2f2f2;'>Specification</th></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Engine Model</td><td style='padding: 8px; border: 1px solid #ddd;'>Cat C7.1 TTA / Cat C13</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Engine Power (ISO 14396)</td><td style='padding: 8px; border: 1px solid #ddd;'>275 hp / 205 kW to 405 hp / 302 kW</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Operating Weight</td><td style='padding: 8px; border: 1px solid #ddd;'>Up to 418,768 lb / 189,950 kg</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Maximum Pin Height</td><td style='padding: 8px; border: 1px solid #ddd;'>Up to 160' 9" / 49 m</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Maximum Tool Weight</td><td style='padding: 8px; border: 1px solid #ddd;'>Up to 7,496 lb / 3,400 kg</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Variable Undercarriage Width</td><td style='padding: 8px; border: 1px solid #ddd;'>2.5 m - 4.37 m</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Cab Tilt Angle</td><td style='padding: 8px; border: 1px solid #ddd;'>30 Degrees</td></tr></table>
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