

Next-Generation Excavator - Official Technical Overview & Datasheet

EXECUTIVE SUMMARY

Introducing the latest evolution in heavy machinery, a new excavator series meticulously engineered to redefine performance standards across construction, mining, and agricultural sectors. This machine represents a paradigm shift in hydraulic technology, structural durability, and operational intelligence. From large-scale infrastructure projects and quarry operations to demanding agricultural earthmoving and precision utility work, this excavator is the versatile, powerful, and reliable partner that modern job sites demand.

This excavator is designed to provide exceptional return on investment through a combination of raw power, advanced fuel-saving technologies, and minimized downtime. The integration of a high-torque, emissions-compliant engine with a next-generation hydraulic system ensures that every drop of fuel is converted into efficient working power. With a robust, high-strength steel chassis and a cab that sets new benchmarks for operator comfort and safety, this machine is the definitive choice for contractors and fleet owners who demand nothing but the best.



STRUCTURAL INTEGRITY & POWERTRAIN

At the heart of this excavator lies a commitment to durability and performance. The machine is built around a reinforced upper and lower structure, utilizing high-tensile strength steel to withstand the torsional stresses and external shocks inherent in heavy-duty applications . The boom and arm have been redesigned with larger box sections and reinforced pivot points to ensure longevity and reliability in the most punishing conditions .

Power is provided by a state-of-the-art, turbocharged diesel engine, delivering high horsepower and class-leading torque. The engine is engineered for optimal fuel efficiency and is fully compliant with stringent global emission standards . The advanced fully electrohydraulic (FEH) system eliminates parasitic losses found in traditional systems. By converting all control functions

to electric signals, the system optimizes hydraulic flow and pressure, resulting in faster cycle times, precise implement control, and fuel savings of up to 10% compared to previous models .

KEY FEATURES & OPERATOR COMFORT

- Fully Electrohydraulic (FEH) Control System: This advanced system provides instantaneous, precise control of all machine functions. It eliminates parasitic hydraulic losses, enhances fuel efficiency, and delivers smoother, more responsive operation .

- Spacious, ROPS/FOPS Certified Cab: The oversized cab features a full-length glass door for easy entry and provides exceptional all-round visibility . The cab is mounted on viscous dampers to significantly reduce vibration and noise levels, creating a quiet and comfortable working environment that reduces operator fatigue .

- Intelligent Operator Environment: Standard equipment includes a high-definition touchscreen monitor that provides intuitive control over machine functions, diagnostics, and performance data . Features like the heated, air-suspension seat and automatic climate control ensure maximum comfort in any climate.

- Advanced Safety & Telematics: Standard safety features include rear and right-side view cameras, with optional 360-degree all-around view monitoring (AAVM) and rear radar to eliminate blind spots . A comprehensive remote monitoring system comes standard, offering fleet management, location tracking, and equipment health monitoring to predict potential failures and minimize downtime .
- E-Boundary Technology: The operator can set virtual boundaries for the machine's working envelope based on the location of other equipment or structures. The system provides visual and audible warnings, helping to prevent accidents and collisions .

COMPLIANCE & SAFETY STANDARDS

This new excavator series is engineered and manufactured to meet the highest global standards for safety and environmental responsibility. The machine is fully compliant with U.S. EPA Tier 4 Final and EU Stage V emission regulations . Operator safety is paramount, with the cab certified to ROPS (Rollover Protective Structure) and FOPS (Falling Object Protective Structure) standards . The manufacturing process adheres to ISO 9001 quality management standards, ensuring consistent reliability and build quality.

TECHNICAL SPECIFICATIONS

The following parameters represent the high-performance capabilities of this new excavator series, designed to tackle the most demanding tasks with ease and efficiency.

Parameter	Specification
Engine Model	Cummins / Isuzu / Cat Engine (High-Performance Diesel)
Net Power	e.g., 472 hp (352 kW)
Operating Weight	e.g., 161,533 lb (73,270 kg)
Maximum Digging Depth	e.g., 23.67 ft (7,220 mm)
Max Flow - Hydraulic System	e.g., 896 L/min

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(237 gal/min)</td></tr><tr><td style='padding: 8px; border: 1px solid
#ddd;'>Fuel Tank Capacity</td><td style='padding: 8px; border: 1px solid
#ddd;'>e.g., 247 gal (US) (935 L)</td></tr><tr><td style='padding: 8px;
border: 1px solid #ddd;'>Emissions Compliance</td><td style='padding: 8px;
border: 1px solid #ddd;'>EPA Tier 4 Final / EU Stage V</td></tr></table>
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