Small Excavator Direct from Supplier - Official Technical Overview & Datasheet

EXECUTIVE SUMMARY

The modern construction, agricultural, and mining landscape demands equipment that is as versatile as it is powerful. Our next-generation small excavator is engineered to be the ultimate solution for professionals who require a robust, compact machine for a variety of applications, including residential construction, landscaping, and utility work. This machine is designed to deliver exceptional performance in confined spaces while maintaining the durability and reliability expected from a top-tier OEM manufacturer, offering a direct-from-supplier advantage that ensures quality and value.

Positioned as a market leader in the 1.5 to 3-ton class, this excavator provides an unmatched balance of power, precision, and efficiency. By sourcing direct from our factory, buyers are guaranteed a superior return on investment through competitive pricing, comprehensive customization options, and a direct line to our technical support and spare parts network. This guide serves as your official technical dossier, detailing the machine's construction, performance metrics, and compliance with global safety standards, enabling informed purchasing decisions for discerning B2B customers .

STRUCTURAL INTEGRITY & POWERTRAIN

At the core of our excavator's durability is a high-tensile, corrosion-resistant steel chassis, designed to withstand the rigors of demanding job sites and provide a long service life. The reinforced lower frame and robust upper structure are built with high-tensile-strength steel, ensuring component durability and excellent resale value . This structural integrity forms the foundation for a machine that performs consistently in various applications and conditions.

Our powertrain solutions are selected for optimal performance and compliance with the world’ s strictest emission standards. The machine is equipped with a choice of industry-leading engines, such as the Kubota D722 or Cat C series, which are renowned for their fuel efficiency and reliability . These engines meet

U.S. EPA Tier 4 Final and EU Stage V emission standards, ensuring clean and efficient operation without sacrificing power . The advanced hydraulic system, featuring a variable displacement piston pump with load-sensing technology, calculates and delivers the required hydraulic flow, ensuring swift and efficient cycle times . This setup maximizes machine power and responsiveness for any task.

KEY FEATURES & OPERATOR COMFORT

- Load-Sensing Hydraulics: The sophisticated load-sensing hydraulic system provides precise, responsive control by varying oil flow based on demand. This reduces fuel consumption, minimizes heat generation, and ensures smooth, powerful operation for digging, lifting, and swinging .
- ROPS/FOPS Certified Cab: The operator station is a certified Roll-Over Protective Structure (ROPS) and Falling Object Protective Structure (FOPS), built to ISO 12117-2:2008 standards. This reinforced cab is not only a critical safety feature but is also equipped with special sealing and insulation to suppress sound, offering a quiet and secure working environment .
- Smart Control Panel: An intuitive, easy-to-read monitor provides the operator with critical machine data at a glance. This system can memorize up to 10 different work tool settings and is programmable in multiple languages, enhancing productivity and versatility across different job sites .
- Enhanced Comfort Features: Operator comfort is maximized with an

ergonomic, high-back suspension seat and adjustable joystick consoles. The machine features a powerful bi-level air conditioning system with multiple air outlets and filtered ventilation, ensuring a comfortable working temperature in both hot and cold climates .

COMPLIANCE & SAFETY STANDARDS

This small excavator is manufactured in accordance with the highest international quality and safety standards, ensuring market readiness and operator protection. It is certified under ISO 9001 quality management systems and complies with CE marking requirements for European markets .

Engine emission compliance is strictly maintained with the machine meeting U.S. EPA Tier 4 Final and EU Stage V standards, making it suitable for use in environmentally regulated areas . Safety is paramount, with all machines incorporating certified ROPS/FOPS structures compliant with ISO 12117-2:2008, ensuring operator safety in the event of a rollover or falling objects .

TECHNICAL SPECIFICATIONS

The following specifications represent the standard configuration of our small excavator. For detailed operating weights and specific dimensional data, please

refer to the comprehensive table below, which is based on industry-standard measurement protocols.

<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;'>Kubota D722 / Cat C1.3 or C2.4 Variants</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Net Power (HP / kW)</td><td style='padding: 8px; border: 1px solid #ddd;'>23.5 - 40.2 / 17.5 - 30.0</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Operating Weight (kg / lb)</td><td style='padding: 8px; border: 1px solid #ddd;'>3,000 - 5,500 / 6,600 - 12,100</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Max Dig Depth (mm / in)</td><td style='padding: 8px; border: 1px solid #ddd;'>2,980 - 3,660 / 117 - 144</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Max Reach at Ground Level (mm / in)</td><td style='padding: 8px; border: 1px solid #ddd;'>4,910 - 5,820 / 193 - 229</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Hydraulic System Type</td><td style='padding: 8px; border: 1px solid #ddd;'>Load Sensing w/ Variable Displacement Piston Pump</td></tr><tr><td style='padding: 8px; border: 1px solid

#ddd;'>Engine Emissions</td><td style='padding: 8px; border: 1px solid #ddd;'>U.S. EPA Tier 4 Final / EU Stage V</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Operator Protection</td><td style='padding: 8px; border: 1px solid #ddd;'>ROPS/FOPS Certified (ISO 12117-2:2008)</td></tr></table>