

2 Ton Mini Excavator - Official Technical Overview & Datasheet

EXECUTIVE SUMMARY

Engineered for the demanding requirements of modern construction, utility, and agricultural sectors, the 2 Ton Mini Excavator represents a paradigm shift in compact equipment performance. This machine bridges the critical gap between manual labor and full-sized machinery, offering an exceptional power-to-weight ratio that enables aggressive digging, grading, and material handling in spaces where larger equipment simply cannot operate. From residential landscaping and municipal utilities to infrastructure maintenance and agricultural trenching, this excavator delivers unparalleled versatility and return on investment.

Built upon a foundation of rigorous engineering and utilizing globally sourced, premium components, the 2 Ton Mini Excavator is designed for the operator who refuses to compromise on quality. Its robust powertrain, advanced hydraulic system, and intelligent control interface ensure that every task, from foundation digging to site cleanup, is executed with precision and efficiency. Coupled with a suite of industry-leading safety certifications and a focus on long-term durability, this machine is not just a purchase; it is a long-term asset designed to maximize job site productivity and lower total cost of ownership.



STRUCTURAL INTEGRITY & POWERTRAIN

The 2 Ton Mini Excavator features a high-tensile, reinforced steel chassis manufactured from top-grade, corrosion-resistant alloy steel. This robust construction utilizes robotic welding techniques to ensure consistent penetration and structural integrity, providing a durable foundation capable of withstanding the torsional stresses and rigors of heavy-duty excavation and tough terrain conditions.

At the heart of the machine lies a Tier 4 Final / Stage V certified KUBOTA diesel engine, renowned globally for its exceptional reliability, fuel efficiency, and low noise emissions (as featured in leading industry models) . This powertrain delivers consistent, high-torque output to the machine's advanced hydraulic system, which is composed of high-efficiency, load-sensing hydraulic pumps

and premium components from industry leaders like Eaton. This synergy provides smooth, responsive, and powerful control over all machine functions, from boom and arm movements to travel and swing operations, ensuring optimal performance under the heaviest loads and maximizing fuel economy.

KEY FEATURES & OPERATOR COMFORT

- Advanced Load-Sensing Hydraulics: The sophisticated hydraulic system provides precise, proportional flow control to all implements, ensuring smooth, powerful operation and exceptional multifunction capability. This system optimizes power distribution for maximum efficiency and fuel savings.
- ROPS/FOPS Certified Operator Environment: The machine is equipped with a fully integrated Roll-Over Protective Structure (ROPS) and Falling Object Protective Structure (FOPS), certified to ISO 3471 standards . An optional fully enclosed cab offers ergonomic joystick-mounted controls, digital display, and auto-climate control, isolating the operator from harsh environments and ensuring maximum safety and comfort during extended shifts .
- Enhanced Digging Capabilities: The model features a generous maximum digging depth of up to 2400mm and an impressive maximum digging radius, allowing operators to excavate deep and reach far without needing to constantly reposition the machine, significantly increasing productivity .
- Zero Tail Swing and Compact Dimensions: Featuring a zero or minimal tail swing design, the excavator provides superior maneuverability and allows

operators to work confidently in highly congested areas adjacent to obstacles, maximizing efficiency on the most restricted job sites .

- Smart Control & Telematics Ready: An intuitive 7-inch color LCD display provides real-time feedback on vital machine telematics such as coolant and hydraulic temperatures, fuel levels, and engine RPM . A factory-installed telematics subscription is available for remote monitoring of machine health and service needs.

COMPLIANCE & SAFETY STANDARDS

The 2 Ton Mini Excavator is manufactured in compliance with the highest international standards for quality, safety, and environmental responsibility. The machine holds CE and ISO 9001:2000 certifications, ensuring it meets stringent quality management and production standards . Its engine is fully compliant with EPA Tier 4 Final and European Stage V emission regulations, underlining our commitment to sustainable and environmentally conscious equipment manufacturing . In addition to the ROPS/FOPS structure, safety features such as a rearview camera, control cut-out lever, and an emergency exit hammer are integrated to ensure operator safety and peace of mind on every job .

TECHNICAL SPECIFICATIONS

The following specifications represent the standard configuration for the 2 Ton Mini Excavator. All values are subject to standard manufacturing tolerances and may vary slightly depending on optional equipment and configuration. Performance figures are measured under ISO standard test conditions.

Parameter	Specification
Engine Model	Kubota D902 / D1105
Engine Power	14.0 - 15.8 HP (10.4 - 11.8 kW) @ 2,200 RPM
Operating Weight	1,950 - 2,000 kg (approx. 4,300 - 4,400 lbs)
Bucket Capacity	0.06 - 0.07 m ³
Max Digging Depth	2,050 - 2,400 mm
Max Digging Radius	

#ddd;'>3,880 - 4,040 mm</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Max Dumping Height</td><td style='padding: 8px; border: 1px solid #ddd;'>2,385 mm</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Travel Speed</td><td style='padding: 8px; border: 1px solid #ddd;'>0 - 4 km/h</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Hydraulic Pressure</td><td style='padding: 8px; border: 1px solid #ddd;'>18 - 21.5 MPa</td></tr><tr><td style='padding: 8px; border: 1px solid #ddd;'>Overall Width</td><td style='padding: 8px; border: 1px solid #ddd;'>1,050 - 1,300 mm</td></tr></table>
