

Small Excavator Direct from Supplier Sourcing Checklist - Official Technical Overview & Datasheet

EXECUTIVE SUMMARY

This document serves as the official technical overview and definitive sourcing checklist for our premium line of small excavators, engineered to deliver class-leading performance, durability, and operator comfort. Designed for the rigorous demands of the construction, mining, and agricultural sectors, these compact yet powerful machines are the ideal solution for projects requiring high maneuverability in confined spaces, such as urban development, trenching, utility installation, and landscaping. Our commitment to quality is evident in every component, providing a superior return on investment through increased productivity and reduced downtime.

As a procurement specialist, selecting the right equipment is critical to project success. This datasheet and accompanying sourcing checklist provide a comprehensive framework for evaluating your investment. By highlighting our machines' superior structural integrity, advanced hydraulic systems, and ergonomic operator environment, we aim to demonstrate how our small excavators exceed industry standards. We prioritize transparency and reliability in the supplier relationship, ensuring that your machinery arrives with all necessary certifications and documentation, making the procurement process

seamless and secure.



STRUCTURAL INTEGRITY & POWERTRAIN

The foundation of our small excavator's durability is its robust chassis, fabricated from high-grade, stress-relieved steel to withstand the harshest working environments. This heavy-duty construction ensures longevity and resistance to torsional forces, maintaining the machine's structural integrity over thousands of operating hours. The undercarriage is designed for optimal weight distribution and stability, whether operating on rugged terrain or sensitive surfaces.

At the heart of the machine is a high-efficiency, Tier 4 Final diesel engine, delivering a powerful combination of high torque and excellent fuel economy.

The engine is mated to a state-of-the-art hydraulic system featuring a variable-displacement axial piston pump. This load-sensing hydraulic system intelligently directs oil flow and pressure to match the demands of the attachment, ensuring smooth, precise control and maximizing fuel efficiency by reducing parasitic losses. The result is a machine that is both powerful and economical to operate, with service points designed for easy, daily maintenance to ensure peak performance.

KEY FEATURES & OPERATOR COMFORT

- Superior Hydraulic Performance: Equipped with a load-sensing hydraulic system that provides exceptional multi-function control, enabling simultaneous operation of boom, arm, and bucket movements with smooth precision. This system ensures optimal power and speed for every task, from delicate grading to heavy material handling.
- Certified Operator Environment: The spacious, ergonomic cab is certified to ROPS (Roll-Over Protective Structure) and FOPS (Falling Object Protective Structure) standards, prioritizing operator safety. The automotive-style interior includes adjustable air-suspension seating, climate control, and all-around LED lighting for enhanced visibility in all conditions.
- Advanced Control & Monitoring: A high-resolution, multi-functional LCD monitor provides the operator with critical machine data at a glance, including

fuel level, engine temperature, hydraulic oil temperature, and maintenance alerts. This smart control panel allows for customization of hydraulic flow and response settings to suit operator preference and application needs.

- Versatile Attachment Integration: With a standard auxiliary hydraulic circuit and optional quick coupler, our small excavator is a versatile tool carrier. Operators can quickly switch between a range of attachments, including breakers, augers, compactors, and tilt-rotators, maximizing the machine's utility on a diverse range of job sites.

- Zero/Minimal Tail Swing Design: Engineered with a zero or minimal tail swing radius, this machine excels in confined spaces. Operators can work confidently near walls, structures, and other equipment, significantly reducing the risk of accidental damage and increasing overall site safety.

COMPLIANCE & SAFETY STANDARDS

Our small excavators are manufactured in compliance with the most stringent international quality and safety standards, ensuring that your investment meets all global regulatory requirements. This commitment to compliance is fundamental to our manufacturing process and provides peace of mind for procurement professionals, guaranteeing that the equipment is suitable for operation in diverse and regulated markets.

- Engine Emissions: Fully compliant with EPA Tier 4 Final emission standards, ensuring low environmental impact and operational efficiency.
- Safety Certification: Equipped with a ROPS/FOPS certified cab as standard, offering maximum operator protection.
- Manufacturing Quality: ISO 9001 certified manufacturing processes ensure consistent quality and reliability.
- CE Certification: The machine meets all essential health and safety requirements for the European market, evidenced by CE marking.

TECHNICAL SPECIFICATIONS

The following parameters detail the core technical characteristics of our small excavator, providing a comprehensive and authoritative reference for equipment evaluation and project planning. These figures represent the standard configuration and are subject to variation based on optional equipment and attachments.

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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;
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border: 1px solid #ddd; > High-Efficiency Diesel, Tier 4 Final </td> </tr>	
style='padding: 8px; border: 1px solid #ddd; > Engine Horsepower </td>	<td style='padding: 8px; border: 1px solid #ddd; > 59.4 HP (44.3 kW) </td>
<td style='padding: 8px; border: 1px solid #ddd; > Operating Weight </td>	<td style='padding: 8px; border: 1px solid #ddd; > 5,970 kg (13,160 lbs) </td>
<td style='padding: 8px; border: 1px solid #ddd; > Bucket Capacity </td>	<td style='padding: 8px; border: 1px solid #ddd; > 0.09 – 0.34 m ³ </td>
<td style='padding: 8px; border: 1px solid #ddd; > Max Dig Depth </td>	<td style='padding: 8px; border: 1px solid #ddd; > 3,900 mm </td>
<td style='padding: 8px; border: 1px solid #ddd; > Max Reach at Ground Level </td>	<td style='padding: 8px; border: 1px solid #ddd; > 6,100 mm </td>
<td style='padding: 8px; border: 1px solid #ddd; > Max Dump Height </td>	<td style='padding: 8px; border: 1px solid #ddd; > 3,900 mm </td>
<td style='padding: 8px; border: 1px solid #ddd; > Swing Speed </td>	<td style='padding: 8px; border: 1px solid #ddd; > 9.5 rpm </td>
<td style='padding: 8px; border: 1px solid #ddd; > Travel Speed (High/Low) </td>	<td style='padding: 8px; border: 1px solid #ddd; > 4.5 / 2.5 km/h </td>
<td style='padding: 8px; border: 1px solid #ddd; > Hydraulic System Flow </td>	<td style='padding: 8px; border: 1px solid #ddd; > 2 x 60 L/min </td>
<td style='padding: 8px; border: 1px solid #ddd; > Fuel Tank Capacity </td>	<td style='padding: 8px; border: 1px solid #ddd; > 80 L </td>

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#ddd;'>Overall Width</td><td style='padding: 8px; border: 1px solid  
#ddd;'>1,990 mm</td></tr><tr><td style='padding: 8px; border: 1px solid  
#ddd;'>Overall Height (to top of cab)</td><td style='padding: 8px; border:  
1px solid #ddd;'>2,550 mm</td></tr></table>
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