

## Factory Direct Mini Excavator - Official Technical Overview & Datasheet

### EXECUTIVE SUMMARY

This comprehensive guide provides an authoritative overview of our factory-direct mini excavator lineup, engineered for superior performance in construction, mining, agriculture, and landscaping. Designed for distributors, rental companies, and contractors, our compact excavators deliver the perfect balance of power, efficiency, and durability in a versatile package that navigates confined job sites with ease. The models featured in this datasheet embody our commitment to advanced engineering and rigorous quality control, ensuring long-term reliability and an exceptional return on investment.

By sourcing directly from our state-of-the-art manufacturing facility in Shandong, China, we eliminate intermediary markups and provide a direct channel to premium heavy machinery. Our mini excavators, available in operating weights from 0.8 to 8 tons, are built with high-grade steel for structural integrity and are powered by renowned engine brands like Kubota, Cummins, and Yanmar. They are designed to outperform in diverse applications, from trenching and demolition to grading and material handling, making them the ideal choice for professionals seeking cost-effective and high-performance equipment.



## STRUCTURAL INTEGRITY & POWERTRAIN

Our mini excavators are engineered to withstand the harshest working conditions, beginning with a robust chassis constructed from high-grade, stress-tested steel. This foundation provides exceptional torsional rigidity and durability, protecting critical components from the impacts of heavy digging and rough terrain. The advanced corrosion-resistant treatment, including acid washing, phosphating, and shot blasting, ensures a long service life even in demanding environments . The undercarriage is designed for stability, with durable rubber tracks that provide excellent ground contact, reduce soil compaction, and ensure superior traction on unstable surfaces .

At the heart of the powertrain is a choice of high-performance engines from globally recognized manufacturers such as Kubota and Isuzu, offering a perfect

synergy of power and fuel efficiency . These engines are meticulously matched with our advanced hydraulic system to deliver smooth, responsive power for all digging and lifting operations. The high-efficiency, load-sensing hydraulic system uses a variable displacement pump to precisely match flow and pressure to the task at hand, optimizing fuel consumption and reducing overall operating costs . This intelligent design ensures superior breakout and digging forces while maintaining exceptional control and machine finesse .

#### KEY FEATURES & OPERATOR COMFORT

- Load-Sensing Hydraulic System: Our advanced closed-center hydraulic system with a load-sensing pump delivers variable flow on demand, optimizing power for attachments and reducing fuel consumption. This ensures smooth, precise operation and superior control in all working conditions .
- ROPS/FOPS Certified Cab: The operator station is designed with safety and comfort in mind, featuring a steel structure that meets ROPS (Rollover Protective Structure) and FOPS (Falling Object Protective Structure) standards. The ergonomically designed cab provides excellent visibility, low noise and vibration levels, and a comfortable suspension seat to minimize operator fatigue during long shifts .
- Zero Tail Swing / Offset Boom: Designed for maximum maneuverability in confined spaces, our ZTS models allow the upper structure to rotate within the track width, preventing damage to surrounding obstacles. An offset boom

capability enables the operator to dig parallel to walls and foundations, making the machine ideal for trenching and utility work in urban environments .

- Advanced Control & Telematics: The intuitive control panel provides real-time machine data, including engine speed, hydraulic temperature, and fuel level for easy monitoring. Optional telematics systems provide remote diagnostics and fleet management capabilities to optimize maintenance schedules and maximize uptime .

- Quick Coupler & Attachment Versatility: A standard hydraulic quick coupler allows operators to change attachments (e.g., buckets, breakers, augers, and grapples) in seconds, transforming the machine from a digger to a versatile tool carrier. This feature maximizes the machine's utility across a wide range of jobsites .

## COMPLIANCE & SAFETY STANDARDS

Our commitment to quality and safety is validated by our rigorous adherence to international standards and certifications. All our mini excavators are manufactured under strict quality control processes, compliant with ISO 9001 standards . The engines meet stringent emission regulations, including EPA Tier 4 Final for the US market and EU Stage V for Europe, ensuring environmental responsibility and market compliance . Safety is paramount, with all models featuring CE certification for the European Economic Area, confirming they

meet essential health, safety, and environmental protection requirements .

Additional safety features include an automatic safety lock armrest, emergency shutoff switches, and optional rearview cameras for enhanced operator awareness and site safety .

TECHNICAL SPECIFICATIONS

The following table outlines key performance metrics for our most popular factory-direct mini excavator models. Specifications may vary based on model, configuration, and optional features. For detailed information, please consult the technical datasheet for your specific model.

| Parameter    | Specification (1.8T Model) | Specification (3.5T Model) |
|--------------|----------------------------|----------------------------|
| Engine Model | Kubota D902                | Cummins / Yanmar           |
| Engine Power |                            |                            |

|                    |                            |
|--------------------|----------------------------|
| 19.5 HP            | 24.7 HP                    |
| Operating Weight   | 3,500 kg                   |
| Bucket Capacity    | 0.03 - 0.04 m <sup>3</sup> |
|                    | 0.10 m <sup>3</sup>        |
| Max Digging Depth  | 2,060 mm                   |
|                    | 3,100 mm                   |
| Max Digging Height | 2,740 mm                   |
|                    | 3,950 mm                   |
| Max Digging Reach  | 3,920 mm                   |
|                    | 5,150 mm                   |
| Breakout Force     | 26.0 kN                    |
|                    | 18.4 kN                    |
| Hydraulic Flow     | High-efficiency            |
| Load-sensing       |                            |

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#ddd;'>High-efficiency Load-sensing</td></tr><tr><td style='padding: 8px;
border: 1px solid #ddd;'>Tail Swing</td><td style='padding: 8px; border: 1px
solid #ddd;'>Zero</td><td style='padding: 8px; border: 1px solid
#ddd;'>Zero</td></tr><tr><td style='padding: 8px; border: 1px solid
#ddd;'>Overall Length (Transport)</td><td style='padding: 8px; border: 1px
solid #ddd;'>~3,600 mm</td><td style='padding: 8px; border: 1px solid
#ddd;'>~4,800 mm</td></tr><tr><td style='padding: 8px; border: 1px solid
#ddd;'>Overall Width (Transport)</td><td style='padding: 8px; border: 1px
solid #ddd;'>~1,200 mm</td><td style='padding: 8px; border: 1px solid
#ddd;'>~1,750 mm</td></tr></table>

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