

Small Skid Steer Loader - Official Technical Overview & Datasheet

EXECUTIVE SUMMARY

Engineered for the most demanding material handling and earthmoving tasks in confined spaces, this Small Skid Steer Loader represents the pinnacle of compact equipment design. Leveraging over four decades of innovation since the first modern compact utility loader, this machine combines the agility of a stand-on or ride-on platform with the brute strength typically found in larger frame sizes . Whether navigating tight urban construction sites, managing agricultural feedlots, or performing landscaping tasks, this loader delivers superior productivity where larger machines simply cannot operate.

Built to serve as a versatile tool carrier, the platform supports a vast array of attachments—from augers and trenchers to grapple buckets and breakers . The primary value proposition lies in its ability to replace manual labor and wheelbarrows, significantly accelerating project timelines and improving worksite efficiency . With a focus on low total cost of ownership and high resale value, this model is the definitive choice for contractors and operators who refuse to compromise on performance and reliability.



STRUCTURAL INTEGRITY & POWERTRAIN

The foundation of this machine is a high-tensile strength steel chassis, engineered to withstand the torsional stresses of heavy digging and lifting. The loader arm features a robust, single-side reinforced boom design (similar to advanced platforms) constructed from high-grade steel with internal baffle plates. This configuration provides superior structural rigidity and offers a safe, protected routing path for hydraulic hoses, safeguarding them from damage during operation. The use of advanced manufacturing techniques ensures tight tolerances and consistent quality, crucial for long-term durability in harsh environments.

At the heart of the powertrain is a state-of-the-art, low-emission diesel engine (e.g., Kohler or Kubota) designed for maximum torque at low revs, ensuring

efficient matching with the transmission and hydraulics . This Tier 4 Final/EU Stage V compliant engine eliminates the need for costly exhaust after-treatment systems like Diesel Particulate Filters (DPF) in some variants, simplifying servicing and reducing operating costs . The hydrostatic transmission provides seamless power delivery to the four-wheel chain drive system, enabling smooth acceleration and precise maneuverability. The high-efficiency hydraulic system utilizes O-ring face seals and significantly reduces the number of parts compared to previous designs, minimizing leakage paths and enhancing reliability .

KEY FEATURES & OPERATOR COMFORT

- High-Performance Load-Sensing Hydraulics: The advanced hydraulic system delivers class-leading auxiliary flow (up to 15 GPM) at high pressures, allowing the loader to run high-consumption attachments with ease. This load-sensing technology ensures that flow and pressure are matched to the demand of the attachment, improving fuel efficiency and reducing heat generation.
- ROPS/FOPS Certified Cab & Side Entry: Safety and comfort are paramount. The operator environment is protected by Rollover Protective Structure (ROPS) and Falling Object Protective Structure (FOPS) certified to ISO 3471 and ISO 3449 standards . Unique side entry and a door more than double the size of rival offerings provide safe and easy access, a crucial advantage when working in congested sites .

- Advanced Ergonomic Controls: Operators benefit from low-effort, servo-assisted joystick controls. Multiple sensitivity settings allow the operator to tailor the responsiveness to specific tasks or conditions. For maximum versatility, an optional multi-function joystick enables seamless control of a wide array of hydraulic attachments, reducing fatigue and enhancing precision.
- Integrated Smart Control Panel: Standard keyless start with passcode protection prevents unauthorized use and secures the asset. The crisp, 4.3-inch LCD color dash monitor provides real-time data on machine performance, including fuel levels, engine temperature, and hydraulic oil temperature, ensuring the operator maintains full situational awareness.
- Superior Serviceability: Designed for maximum uptime, all daily maintenance points, including pre-filters and oil/air filters, are easily accessible via a large rear service door at ground level. The tilting cab design allows for easy access to key powertrain components, drastically reducing service time.

COMPLIANCE & SAFETY STANDARDS

This Small Skid Steer Loader is engineered and manufactured in compliance with the most stringent global standards. The unit meets U.S. EPA Tier 4 Final and EU Stage V emission standards, reflecting our commitment to environmental stewardship. Structural integrity and operator safety are validated through certifications including ISO 3471:2008 for ROPS and ISO

3449:2005 Level I/II for FOPS . The machine also adheres to CE marking requirements and ISO 9001 quality management standards, ensuring a product that is safe, reliable, and built to last.

TECHNICAL SPECIFICATIONS

Below are the core technical specifications for the standard model. Values are based on standard tires, a 75kg operator, and standard flow hydraulics unless otherwise noted.

Parameter	Specification
Engine Model	Kohler / Kubota Diesel (Tier 4 Final)
Gross Power	24.8 - 37 HP (18.5 - 27.6 kW)
Rated Operating Capacity (ROC)	612 - 1,000 kg (1,350 - 2,200 lbs)
Tipping Load	

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style='padding: 8px; border: 1px solid #ddd;''>1,100 - 2,000 kg (2,425 - 4,400
lbs)</td></tr><tr><td style='padding: 8px; border: 1px solid
#ddd;''>Operating Weight</td><td style='padding: 8px; border: 1px solid
#ddd;''>1,700 - 2,200 kg (3,750 - 4,850 lbs)</td></tr><tr><td style='padding:
8px; border: 1px solid #ddd;''>Hydraulic Flow (Standard)</td><td
style='padding: 8px; border: 1px solid #ddd;''>13 - 15 GPM (49 - 57
L/min)</td></tr><tr><td style='padding: 8px; border: 1px solid
#ddd;''>System Pressure</td><td style='padding: 8px; border: 1px solid
#ddd;''>2,700 - 3,000 PSI (186 - 207 Bar)</td></tr><tr><td style='padding:
8px; border: 1px solid #ddd;''>Machine Width</td><td style='padding: 8px;
border: 1px solid #ddd;''>35 - 44 Inches (890 - 1,120 mm)</td></tr><tr><td
style='padding: 8px; border: 1px solid #ddd;''>Travel Speed</td><td
style='padding: 8px; border: 1px solid #ddd;''>4.5 - 6.8 mph (7.2 - 11
km/h)</td></tr></table>

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