

30 Ton Construction Loader - Official Technical Overview & Datasheet

EXECUTIVE SUMMARY

Engineered for excellence, the 30-ton Construction Loader stands as a testament to superior engineering, designed to redefine productivity and reliability in the most challenging environments. This machine is the ideal solution for heavy-duty applications, including large-scale infrastructure projects, quarry and mining operations, and high-volume agricultural material handling. It provides an optimal balance of immense power, exceptional fuel economy, and unparalleled operator comfort, ensuring maximum return on investment for fleet operators worldwide.

Positioned as a leader in its class, this 30-ton loader integrates cutting-edge technology with a robust, field-proven design. Its primary value proposition lies in its ability to significantly lower total cost of ownership through reduced fuel consumption and extended service intervals, while simultaneously boosting operational efficiency. The machine's advanced load-sensing hydraulics and intelligent power control systems allow for precise, effortless operation, making it the preferred choice for industry professionals who demand high performance and unwavering dependability .



STRUCTURAL INTEGRITY & POWERTRAIN

The 30-ton Construction Loader is built on a foundation of uncompromising durability, utilizing high-grade, high-tensile steel in its chassis and critical structural components. Advanced 3D design and rigorous finite element analysis (FEA) have been employed to optimize the frame and linkage systems, ensuring superior resistance to torsional stress and fatigue in harsh working conditions . The articulated chassis features heavy-duty, sealed pin joints that provide exceptional longevity and require minimal maintenance, ensuring reliable operation over thousands of hours. This robust platform is designed to absorb the high-impact loads common in rock handling and heavy excavation, guaranteeing a long service life.

At the heart of the machine lies a high-performance, turbocharged diesel

engine, such as the proven DEVELON DL08 powerplant, which delivers a robust net power of 183 kW (260 PS) . This engine is designed for high torque rise, providing excellent lugging ability and responsive power for demanding applications. The powertrain is complemented by a sophisticated hydraulic system featuring the latest Smart Power Control (SPC) technology, which dynamically adjusts engine RPM and pump torque based on real-time working conditions . This synergy between engine and hydraulics ensures maximum power is delivered precisely when needed, optimizing cycle times while minimizing fuel wastage, resulting in a highly efficient and productive machine.

KEY FEATURES & OPERATOR COMFORT

- Advanced Smart Power Control (SPC) System: The integrated SPC system detects the required power in real-time and automatically adjusts engine speed and main pump torque. This intelligent control enhances operational efficiency, reduces fuel consumption, and allows operators to select between Power, Standard, and Economic modes to match the application .
- High-Efficiency Load-Sensing Hydraulics: The upgraded ACE hydraulic system features an increased main pump discharge rate, providing faster operation and greater load-carrying capacity. This system is designed for low fuel consumption, delivering precise control and powerful performance for all attachment types .
- ROPS/FOPS Certified Operator Cab: The spacious, sound-suppressed cab is

designed for maximum operator comfort and safety. It features an ergonomic layout, high-resolution rear-view camera for all-weather safety, and advanced climate control, ensuring reduced operator fatigue and enhanced productivity during long shifts .

- Unmatched Durability and Serviceability: Key connecting components are manufactured as single body casts to enhance structural integrity and longevity. The machine is designed with organized, logical component positioning, allowing for safe and easy daily inspections and maintenance from ground level, significantly reducing downtime .

COMPLIANCE & SAFETY STANDARDS

The 30-ton Construction Loader is manufactured in compliance with the most stringent international standards for quality, safety, and environmental responsibility. The machine meets or exceeds all relevant certifications, including CE certification for the European market and adherence to ISO 9001 quality management standards. The engine is designed to comply with the latest emission regulations, ensuring a lower environmental footprint. Safety is paramount, and the machine is equipped with advanced features, including a standard rear-view camera with a high-resolution display, all-weather lighting, and audible reversing alarms to ensure maximum site safety and operator confidence .

TECHNICAL SPECIFICATIONS

Below are the key performance and dimensional data for the 30-ton Construction Loader, reflecting its capability as a class-leading machine.

Parameter	Specification
Engine Model	DEVELON DL08 (or equivalent Tier 4 Final compliant diesel engine)
Engine Power (SAE J1349, Net)	183 kW (260 PS) @ 1,800 rpm
Operating Weight	~30,800 kg
Bucket Capacity (SAE Heaped)	1.47 - 1.65 m ³
Travel Speed	3.1 / 5.6 km/h
Max.	

Digging Reach	10,671 mm
Max. Digging Depth	7,244 mm
Overall Length	10,615 mm
Overall Width	3,200 mm
Overall Height	3,697 mm