

2m³ Bucket Front Loader - Official Technical Overview & Datasheet

EXECUTIVE SUMMARY

Introducing the latest evolution in material handling, the 2m³ Front Loader is a meticulously engineered wheel loader designed to deliver class-leading performance and durability. As a versatile workhorse, this machine is purpose-built for the rigorous demands of construction, quarrying, and large-scale agricultural operations. Its optimized 2.0m³ bucket capacity ensures high productivity, making it the ideal solution for efficiently moving a wide range of materials, from aggregates and ore to silage and grain. This front loader represents a perfect synergy of power, efficiency, and operator-centric design, ensuring maximum return on investment for global enterprises .

Positioned as a benchmark in its class, the 2m³ Front Loader offers an exceptional balance of breakout force, lifting capacity, and fuel efficiency. The machine is engineered to deliver significant cost savings over its lifespan through reduced fuel consumption and minimized downtime. Whether loading trucks, stockpiling materials, or feeding processing plants, this loader provides the agility and power to handle the job with unmatched precision. Its robust construction guarantees longevity even in the most punishing environments, affirming its position as a reliable partner in achieving operational excellence .



STRUCTURAL INTEGRITY & POWERTRAIN

At the core of the 2m³ Front Loader is a chassis built for ultimate durability. The articulated frame is constructed from high-strength, reinforced steel plates, specifically engineered to withstand torsional stress and shock loads encountered in demanding applications. This design not only extends the machine's service life but also ensures stability during heavy lifting and dumping operations. The use of premium wear-resistant materials in the bucket and critical structural points further enhances resilience against abrasive materials .

The powertrain is a symphony of power and efficiency. The loader is equipped with a high-torque diesel engine designed to meet strict emission standards such as EPA Tier 4 Final, delivering reliable power output for continuous

operation. This is seamlessly coupled with a robust power-shift transmission, offering smooth gear changes and high-speed mobility on job sites. The hydraulic system features a high-efficiency, load-sensing design, which optimizes pump flow and pressure according to demand. This advanced system ensures rapid cycle times and precise implement control, minimizing wasted energy and maximizing productivity .

KEY FEATURES & OPERATOR COMFORT

- Articulated Steering & Maneuverability: The central articulated hinge provides an exceptionally tight turning radius, granting the operator outstanding maneuverability in confined spaces and on narrow job site roads. Combined with full hydraulic steering, this feature ensures effortless and precise control, significantly reducing operator fatigue during long shifts .

- Operator-Centric ROPS/FOPS Cab: The spacious, panoramic cab is certified to ROPS (Roll-Over Protective Structure) and FOPS (Falling Object Protective Structure) standards, ensuring maximum operator safety. The cab is designed with all-around visibility for a clear view of the bucket and surrounding worksite. Ergonomic controls, including a pilot-operated joystick, and clear, easy-to-read instrumentation further reduce fatigue and enhance operational efficiency .

- High-Performance Hydraulics: A state-of-the-art, twin-pump flow-merging hydraulic system provides industry-leading breakout force and rapid lifting

speeds. The system's load-sensing technology precisely matches pump output to the demands of the control valve, reducing hydraulic heat and power loss. This results in faster loading cycles and improved fuel economy, delivering a tangible boost to overall productivity .

- Smart Control & Monitoring: The machine is equipped with an advanced, multi-function digital dashboard that provides the operator with real-time data on critical machine parameters, including engine status, hydraulic temperatures, and fuel levels. This proactive monitoring system allows for timely maintenance interventions, reducing the risk of unplanned downtime and extending component life .

- Heavy-Duty Bucket & Driveline: The 2.0m³ bucket features a high wear-resistant cutting edge and side plates, designed to provide superior penetration and longevity in abrasive applications. The integrated drivetrain is engineered for long-term stability, ensuring reliable power transmission and smooth operation under full load conditions .

COMPLIANCE & SAFETY STANDARDS

The 2m³ Front Loader is designed and manufactured in compliance with the most stringent international standards for safety and quality. The machine carries CE certification, confirming it meets the essential health, safety, and environmental requirements of the European Economic Area. It is also built to

adhere to stringent emissions regulations, including EPA Tier 4 Final, ensuring eco-conscious operation. The entire manufacturing process is conducted under the rigorous quality management guidelines of ISO 9001, guaranteeing consistency and reliability. Furthermore, its robust safety features, including the fully compliant ROPS/FOPS cabin and responsive air-over-hydraulic disc brakes, ensure a safe working environment for the operator, adhering to global safety regulations like ISO 3450 for braking systems .

TECHNICAL SPECIFICATIONS

The following table provides a detailed breakdown of the technical parameters for the 2m³ Front Loader, reflecting the machine's high-capacity design and robust engineering.

Parameter	Specification
Engine Model	Weichai / Cummins (Depending on Configuration)
Engine Power (Rated)	129 -

160 kW	
Operating Weight	10,500 - 12,220 kg
Bucket Capacity	2.0 m ³
Maximum Breakout Force	127 kN
Maximum Dump Height	3,200 - 3,300 mm
Maximum Dump Reach	1,250 - 1,260 mm
Overall Dimensions (LxWxH)	~7,560 x 2,320 - 2,440 x 3,300 mm
Travel Speed (Max)	38 - 40.6 km/h
Wheelbase	2,820 - 2,830 mm
Tire Size	20.5-25 (Standard)