

Tracked Digger - Official Technical Overview & Datasheet

EXECUTIVE SUMMARY

Designed for the most punishing job sites from Australian mine pits to European urban foundations, the Tracked Digger redefines productivity in the 22-28 metric ton class. Integrating a high-rigidity undercarriage with an electro-hydraulic load-sensing system, this machine delivers up to 15% faster cycle times while reducing fuel burn by 8-12% compared to previous generation models. Primary applications include mass excavation, trenching for utilities, forestry mulching, and agricultural land clearing.

Backed by a global dealer network and a 3-year / 6,000-hour structural warranty, the Tracked Digger offers fleet managers a lower total cost of ownership (TCO) through extended service intervals and modular component design. With factory options including a tilt rotator, hydraulic quick coupler, and grade control ready GPS, the platform adapts seamlessly to BIM and site management workflows.



STRUCTURAL INTEGRITY & POWERTRAIN

The main chassis is fabricated from high-tensile HB450 grade steel plates with triple-reinforced boom pivot mountings, achieving an ISO 10265 structural rating for severe-duty applications. Under-track shielding and sealed track chain with 45mm pitch bushings extend undercarriage life in abrasive soils.

Powertrain options include the Stage V / EPA Tier 4 Final compliant Cummins QSB6.7 or Isuzu 4JJ1X direct-injection diesel engine, delivering 168 hp (125 kW) at 2,050 rpm with a selective catalytic reduction (SCR) only aftertreatment – no DPF required. The closed-center load-sensing hydraulic system generates 71.5 L/min variable flow at 34.3 MPa (4,975 psi) main relief, enabling simultaneous boom, arm, and bucket functions with near-zero parasitic loss.

KEY FEATURES & OPERATOR COMFORT

- Load-Sensing Hydraulics with Auto-Power Boost: Electronic flow sharing prioritizes dig or swing functions on demand. Auto-Power Boost temporarily increases arm crowd force by 12% when encountering non-breakable material, reducing operator intervention.
- ROPS/FOPS Level 2 Certified Cab: Integrated falling object protective structure meeting ISO 3449 Level 2 and ROPS ISO 12117-2. Cab includes 63 dB(A) interior noise rating, pressurized fresh air filtration (HEPA + activated carbon), and a heated air-suspension seat with low-frequency vibration dampening.
- 8-Inch Smart Control Panel: Fully sealed touchscreen display offering real-time machine health, fuel consumption trending, and 3-parameter adjustable auxiliary hydraulics. Bluetooth telemetry ready for remote fleet management.
- Variable Track Gauge Undercarriage: Hydraulically adjustable track gauge from 2.0 m to 2.6 m (transport to working mode) improves stability on sloping ground or when lifting heavy attachments. Standard 700mm triple-grouser track shoes.
- One-Key Daily Service: Centralized lube bank, ground-level fuel/def fill, and swing-out cooling package reduce daily service time to under 10 minutes. Automatic belt tensioner and sealed electrical connectors prevent contamination ingress.

COMPLIANCE & SAFETY STANDARDS

All Tracked Digger models carry CE mark (EU Machinery Directive 2006/42/EC), UKCA certification, and EAC for Eurasian markets. Engine family is EPA Tier 4 Final, EU Stage V, and Japan MLIT compliant. Manufacturing facility certified to ISO 9001:2015 and ISO 14001:2015.

Safety features include secondary engine shutdown switch (accessible from ground), 360° LED area illumination, reverse camera with object detection, and travel alarm with auto-activation. Hydraulic accumulators maintain emergency lowering for 24 hours after engine stop. Fire suppression pre-piping is a factory option.

TECHNICAL SPECIFICATIONS

Standard parameters for Model TD-250 (global version). Values may vary with attachment configuration and track shoe selection.

Parameter	Specification
Engine Model	Cummins QSB6.7 (Stage V/Tier 4F) or Isuzu 4JJ1X
Gross Power	168 hp (125 kW) @ 2,050 rpm

Operating Weight	25,200 kg (55,556 lb)
Bucket Capacity	0.9 - 1.4 m ³ (SAE heaped)
Max Digging Depth	6,850 mm (22 ft 6 in)
Max Reach at Ground Level	10,200 mm (33 ft 5 in)
Max Breakout Force (Bucket)	165 kN (37,100 lbf)
Max Breakout Force (Arm)	120 kN (26,980 lbf)
Swing Speed	11.2 rpm
Travel Speed (High/Low)	5.2 / 3.3 km/h (3.2 / 2.1 mph)
Main Hydraulic Pressure	34.3 MPa (4,975 psi)
Hydraulic Flow (Implement)	2 x 240 L/min (total 480 L/min)
Fuel Tank Capacity	410 L (108 gal US)
Undercarriage Track Gauge	2,000 - 2,600 mm (adjustable)

[IMAGE_1]

NOTE: All specifications based on machine with standard arm, 700mm track shoes, full fluids, 75 kg operator. SAE J1098 definitions apply. Manufacturer reserves the right to change design and specifications without notice.