مؤسسة رمز ركاز الجودة للتجارة
Ramz Rikaz Al Joudah Trading Est.
C.R. No: 7055068394
VAT No: 312849650600003
4620 Street No. 10
3602 Al Jazirah Dist.
Riyadh 14262
Saudi Arabia
السجل التجاري: ٧٠٥٥٠٦٨٣٩٤
الرقم الضريبي: ٣١٢٨٤٩٦٥٠٦٠٠٠٠٣
٤٦٢٠ شارع رقم ١٠
٣٦٠٢ حي الجزيرة
الرياض ١٤٢٦٢
المملكة العربية السعودية
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Datasheet

LiuGong ZL50CN Wheel Loader – 3.5 m³ Bucket – 220 HP

Brand: LiuGong Machinery Co.



The **LiuGong ZL50CN Wheel Loader** is a robust diesel-powered machine designed for heavy-duty loading and material handling in demanding job sites.

- **Bucket Capacity:** 3.5 m³ (quoted)
- **Engine Power:** 162 kW @ 2,000 rpm
- **Operating Weight:** 16,595 kg
- **Emission Standard:** Tier 2 / Stage II

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LiuGong ZL50CN Wheel Loader

The **LiuGong ZL50CN** is a heavy-duty wheel loader engineered for high productivity in construction, mining, quarrying, and infrastructure projects. Manufactured by **LiuGong**, this model combines a powerful Cummins diesel engine with a robust planetary power shift transmission and a durable articulated frame, delivering reliable performance in demanding environments.

Typical Applications

This wheel loader is well-suited for a variety of material handling and earthmoving tasks, including:

- Loading trucks and hoppers with aggregates, sand, gravel, and other bulk materials
- Stockpiling and reclaiming materials in quarries and mining operations
- Site preparation and general construction material handling
- Infrastructure projects requiring efficient loading and transport of materials

Key Operational Features

The ZL50CN is configured with practical features that enhance operator comfort and machine control:

- Articulated steering for excellent maneuverability in tight workspaces
- Single pilot joystick loader control for precise and responsive operation
- Standard cab with air conditioning for operator comfort in hot climates
- Included backup alarm, reverse camera, and rotating beacon for enhanced site safety

Equipment Inquiries

For more information about the LiuGong ZL50CN wheel loader, including availability and configuration options, please contact our sales team.

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Technical Specifications

LiuGong ZL50CN Wheel Loader – 3.5 m³ Bucket – 220 HP

Specification	Value
Manufacturer	LiuGong
Model	ZL50CN
Equipment Type	Wheel Loader
Emission Regulation	Tier 2 / Stage II
Engine Manufacturer	Cummins
Engine Model	6LT9.3
Engine Rated Power	162 kW (217 hp / 220 ps) @ 2,000 rpm
Engine Net Power	152 kW (204 hp / 207 ps) @ 2,000 rpm
Rated Engine Speed	2,000 rpm
Peak Torque	980 N·m @ 1,400 rpm
Engine Displacement	9.3 L
Number of Cylinders	6
Aspiration	Turbocharged
Transmission Type	Planetary, power shift
Torque Converter	Double stage, four elements
Maximum Travel Speed (Forward)	37 km/h
Maximum Travel Speed (Reverse)	14.5 km/h
Number of Speeds (Forward)	2
Number of Speeds (Reverse)	1
Front Differential Type	Conventional
Rear Differential Type	Conventional
Axle Oscillation	±10°
Steering Configuration	Articulated
Steering Relief Pressure	17.2 MPa
Service Brake Type	Caliper discs brake
Service Brake Actuation	Air over hydraulic
Parking Brake Type	Drum
Parking Brake Actuation	Manual air control
Main Pump Type	Gear
Main Hydraulic Relief Pressure	20.7 MPa

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Specification	Value
Raise Time	5.6 s
Dump Time	1.5 s
Float Down Time	3.0 s
Fastest Total Cycle Time	10.1 s
Standard Bucket Capacity (Brochure)	3.0 m³
Reference Bucket Capacity Range	2.7–5.0 m³
Tipping Load – Straight	12,550 kg (ISO 14397-1:2007)
Tipping Load – Full Turn	11,100 kg (ISO 14397-1:2007)
Bucket Breakout Force	168 kN
Maximum Hinge Pin Height (A)	4,114 mm
Dump Clearance at Full Height (B)	3,037 mm
Dump Reach at Full Height (C)	1,169 mm
Maximum Digging Depth, Bucket Level (D)	50 mm
Bucket Rollback at Ground Level (S1)	44.3°
Bucket Rollback at Carry (S2)	49°
Bucket Rollback at Maximum Height (S3)	57.6°
Maximum Dump Angle at Full Height (S4)	46°
Ground Clearance (E)	431 mm
Wheelbase (G)	3,250 mm
Cab Height (H)	3,500 mm
Wheel Tread (J)	2,150 mm
Width over Tires (K)	2,750 mm
Length with Bucket Down (L)	7,919 mm
Turn Angle, Either Side (M)	38°
Rear Angle of Departure (P)	30°
Turning Radius, Outside of Tire (R1)	6,854 mm
Turning Radius, Bucket Carry (R2)	6,779 mm
Width over Bucket (W)	2,976 mm
Tire Size	23.5-25 PR16 L-3 TT
Operating Weight	16,595 kg
Fuel Tank Capacity	280 L
Engine oil capacity	26 L
Cooling system capacity	42 L
Hydraulic Reservoir Capacity	201 L

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Specification	Value
Transmission and Torque Converter Oil Capacity	45 L
Axle Oil Capacity (Each)	33 L
Quoted Bucket Capacity (KAIROS Offer)	3.5 m³ (BOT)
Quoted Axle Configuration	LiuGong split-clamp axle
Quoted Transmission Model	BS308
Quoted Boom	Standard boom
Quoted Hydraulic Pump Configuration	Fixed displacement
Quoted Loader Control	Single pilot joystick
Quoted Control Valve	2 SPL valve
Air Conditioning (Quoted)	A/C
Cab Type (Quoted)	Standard cab
Air Filter (Quoted)	Oil-bath air filter
Tire Construction (Quoted)	Bias, tube tire
Cooling Fan (Quoted)	Blow type fan
Seat Type (Quoted)	Mechanical seat
Cab Fan (Quoted)	Included
Seat Belt (Quoted)	Included
Sound System (Quoted)	Included
Backup Alarm (Quoted)	Included
Reverse Camera (Quoted)	Included
Rotating Beacon (Quoted)	Included
Additional Equipment (Quoted)	T. BOX
Decal Language (Quoted)	English