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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 |