

## SPECIFICATIONS

### Operating weight 24,500 kg (54,013 lb)

Operating weight includes the machine weight with standard work device, no additional equipment or accessories, full fuel tank, all fluids at required level and an operator 75 kg (165 lb).

Bucket capacity 3.5 - 7 m<sup>3</sup> (4.6 - 9.2 yd<sup>3</sup>)

### ENGINE

#### Description

Engine: Cummins EPA Tier 4 final / EU Stage IV, 9 liter (2.4 gal), 6-cylinder straight turbocharged diesel engine with Common Rail fuel injection system and Cooled Exhaust Gas Recirculation (EGR).

Cummins Variable Geometry Turbocharger (VGT) improves engine response at both low and high speed.

Integrated DEF controller.

Air cleaning: Cummins Direct Flow Air Filter.

Cooling system: Air-to-air intercooler, hydraulic motor drive and temperature-controlled fan.

Emission rating EPA Tier 4 final / EU Stage IV

Make Cummins

Model QSL9

Engine Output - Gross 247 kW (331 hp) @ (SAE J1995 / ISO 14396) 1,600 rpm

Engine Output - Net 235 kW (315 hp) @ (SAE J1349 / ISO 9249) 1,600 rpm

Peak torque 1,573 N·m (1,160 lbf·ft)

Displacement 9 L (2.4 gal)

Number of cylinders 6

Aspiration Turbocharged & air-to-air intercooled

### AXLES

Model MTL3105II (Wet type)

Differential front type Limited slip differential

Differential rear type Limited slip differential

Axle oscillation ±12°

### TRANSMISSION

#### Description

Torque converter: single-stage, three elements; free wheel stator.

Transmission: ZF Ergopower 4WG260 countershaft transmission F4/R3, electro-proportional valve.

Gear shifting system: ZF Automatic Power Shift with auto modes (1~4/2~4) all start in gear 2; FNR and kick-down features included; two shifting modes of normal modes and manual modes.

Transmission type Countershaft, power shift

Torque converter Single stage, three elements, free wheel stator

Maximum travel speed, fwd 40 km/h (24.9 mph)

Maximum travel speed, rev 28.5 km/h (17.7 mph)

Number of speed, fwd 4

Number of speed, rev 3

### STEERING

#### Description

Steering system: Load-sensing hydraulic articulated steering.

System supply: The steering system has priority feed from a load-sensing axial piston pump with variable displacement, dual-pump confluence & steering priority.

Steering cylinders: Two double-acting cylinders.

Steering configuration Articulated

Steering relief pressure 20.7 MPa (3002 psi)

Steering cylinders 2

Cylinder bore 100 mm (4")

Rod diameter 60 mm (2")

Stroke 500 mm (1' 7")

Maximum flow 120 L/min (31.7 gal/min)

Maximum articulation ±38°

Smallest turn (over tire) 6,625 mm (21' 9")

### HYDRAULIC SYSTEM

#### Description

System supply: Two load-sensing axial piston pumps with variable displacement and flow confluence. The steering function always has priority.

Valves: Double-acting 3-spool valve. The main valve is controlled by a 3-spool pilot valve.

Lift function: The valve has four positions: lift, hold, lower, and float. Inductive/magnetic automatic boom kick-out can be switched on and off and is adjustable to two positions: bucket at ground level and maximum reach full lifting height.

Tilt function: The valve has three functions: rollback, hold and dump.

Cylinders: Double-acting cylinders for all functions.

Filter: Full-flow filtration through 12 micron (absolute) filter cartridge.

Main pump type Piston

Main relief pressure 26 MPa (3,771 psi)

Raise 5.8 s

Dump time 1.3 s

Float down time 3.2 s

Fastest total cycle time 10.3 s

Controls 3 levers, finger control

### BRAKES

#### Description

MICO brake solution:

Two independent brake circuits  
Enclosed wet-disc

Service brake type Wet discs brake

Service brake actuation Hydraulic

Parking brake type Electrical hydraulic control

Parking brake actuation Hydraulic

## ELECTRICAL SYSTEM

### Description

Central warning system is a Contronic electrical system with central warning light and buzzer for the following functions: Serious engine fault, low steering system pressure, interruption in communication (computer failure). Central warning light and buzzer or code for the following functions: Low engine oil pressure, high engine oil temperature, high charge air temperature, low coolant level, high coolant temperature, low transmission oil pressure, high transmission oil temperature, low brake pressure, engaged parking brake, brake charging failure, high hydraulic oil temperature.

Voltage	24 V
Batteries	2 x 12 V
Battery capacity	2 x 120 Ah
Parking brake actuation	850 A
Reserve capacity	230 min
Alternator rating	1,960 W/70 A
Starter motor output	7.8 kW (10.6 hp)

## SERVICE REFILL CAPACITIES

Fuel tank	372 L (98.3 gal)
Engine oil	33 L (8.7 gal)
Cooling system	36 L (9.5 gal)
Hydraulic system	220 L (58.1 gal)
Transmission and torque converter	50 L (13.2 gal)
Axles, each	60 L (15.9 gal)

## SOUND & ENVIRONMENT

Sound level in cab according to ISO 6396-2008/EN ISO 3744-1995	74 dB(A)-- Travel mode
Sound level in cab according to ISO 6396-2008/EN ISO 3744-1995	75 dB(A)-- Stationary work cycle mode
External sound level according to ISO 6395-2008	107 dB(A)-- Travel mode
External sound level according to ISO 6395-2008	108 dB(A)-- Stationary work cycle mode
Ventilation	9.2 m <sup>3</sup> (12 yd <sup>3</sup> )
Heating capacity	5.8 kW (7.8 hp)
Air conditioning	6 kW (8 hp)

## CAB

### Description

Instrumentation: All important information is centrally located in the central instrument panel and operator's field of vision.

Large curved front glass, rear view camera and mirrors ensure great visibility.

Adjustable steering column, Machinery suspension seat and armrest box, and Denso air conditioning with air outlets all around providing you the best working environment.

Pressurized cab with little noise inside.

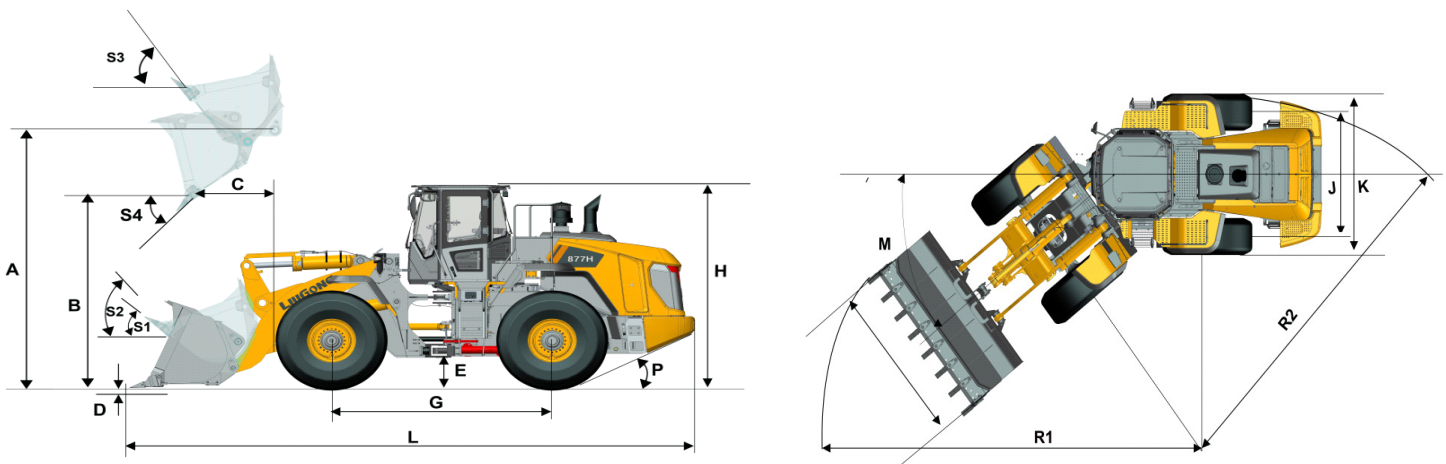
The cab is tested and approved according to ROPS (ISO 3471), FOPS (ISO 3449).

## LOADER ARM PERFORMANCE WITH ATTACHMENT

Tipping load – straight	19,490 kg (42,968 lb)
Tipping load – full turn	16,080 kg (35,450.4 lb)
Bucket breakout force	200 kN (44,961.8 lbf)
A Maximum hinge pin height	4,355 mm (14' 3")
B Dump clearance at full height discharge	3,150 mm (10' 4")
C Dump reach at full height discharge	1,312 mm (4' 3")
D Maximum digging depth, bucket level	100 mm (4")
S1 Bucket rollback at ground level	45°
S2 Bucket rollback at carry	49°
S3 Bucket rollback at maximum height	60°
S4 Maximum dump angle at full height	45°

## DIMENSIONS

E Ground clearance	485 mm (1' 7")
G Wheelbase	3,550 mm (11' 8")
H Cab height	3,580 mm (11' 9")
J Wheel tread	2,270 mm (7' 5")
K Width over tires	2,970 mm (9' 9")
L Length with bucket down	9,100 mm (29' 10")
M Turn angle, either side	38°
P Rear angle of departure	26°
R <sub>1</sub> Turning radius, bucket carry	7,400 mm (24' 3")
R <sub>2</sub> Turning radius, outside of tire	6,625 mm (21' 9")



## TIRES

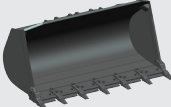
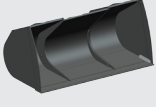
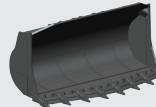

Choosing the right tires for your machine will become a key competitive advantage to achieve outstanding performance. Through close engineering and development cooperation with renowned and carefully selected suppliers, Liugong can offer a full range of tires specially tailored for wheel loaders.

Code	Application	Patterns	Size	PR / *	Tube Type	Width	Overall Diameter	Tread Depth	Load Capacity, 50 km/h (31.1 mph) / 10 km/h (6.2 mph)
L3	<ul style="list-style-type: none"> <li>In sand operation</li> <li>In all kind of load/carry operation</li> <li>The L3-tread is not as open as L2 and is consequently less self-cleaning</li> </ul>		26.5 - 25	28	TL	675 mm (2' 2")	1,750 mm (5'9")	38.5 mm (2")	10,000 kg (22,046 lb) / 15,500 kg (34,172 lb)
			26.5 R 25	*	TL	674 mm (2' 2")	1,760 mm (5'9")	40 mm (2")	9,000 kg (19,842 lb) / 15,000 kg (33,069 lb)
			26.5 R 25	**	TL	674 mm (2' 2")	1,760 mm (5'9")	40 mm (2")	11,500 kg (22,353 lb) / 18,500 kg (40,786 lb)
L5	<ul style="list-style-type: none"> <li>In very aggressive material where good protection against cut damages is demanded, e.g. in quarries or mines</li> </ul>		26.5 R 25	*	TL	676 mm (2' 2")	1,805 mm (5'11")	95 mm (4")	15,000 kg (33,069 lb) @ 10 km/h (6.2 mph)
			26.5 R 25	**	TL	676 mm (2' 2")	1,805 mm (5'11")	95 mm (4")	18,500 kg (40,786 lb) @ 10 km/h (6.2 mph)

Note: The radial tire-load bearing capacity is indicated by the number of stars (\*). More stars, greater radial tire-load bearing capacity. For the specific radial tire sizes listed in the table above, 2 stars (\*\*) represents the maximum radial tire-load bearing capacity.

## ATTACHMENTS

Liugong attachments with pin-on or quick-coupler ensure high quality. The integrated design of the system creates a perfect match to achieve superior productivity.

Type	Capacity	Width	Height	Digging Depth	Dump Clearance	Dump Reach	Description	
Standard	4.2 m <sup>3</sup> (5.5 yd <sup>3</sup> )	3,150 mm (10' 4")	1,586 mm (5'2")	100 mm (4")	3,150 mm (10' 4")	1312 mm (4' 4")	Anti-Wear Blade with Bolt-on Cutting Edge and Bolt-on Teeth.	
General Purpose	3.5 m <sup>3</sup> (4.6 yd <sup>3</sup> )	3,150 mm (10' 4")	1,480 mm (4' 10")	100 mm (4")	3,076 mm (10' 1")	1341 mm (4' 5")	Anti-Wear Blade with Bolt-on Teeth.	
	4.7 m <sup>3</sup> (6.2 yd <sup>3</sup> )	3,138 mm (10' 4")	1,596 mm (5'3")	100 mm (4")	3,068 mm (10' 1")	1335 mm (4' 5")	Anti-Wear Blade with Bolt-on Cutting Edge and Bolt-on Teeth.	
	5.2 m <sup>3</sup> (6.8 yd <sup>3</sup> )	3,424 mm (11' 3")	1,637 mm (5'4")	100 mm (4")	3,064 mm (10' 1")	1329 mm (4' 4")	Anti-Wear Blade with Bolt-on Cutting Edge and Bolt-on Teeth.	
Light Material	6.0 m <sup>3</sup> (7.8 yd <sup>3</sup> )	3530 mm (11'7")	1646 mm (5'5")	100 mm (4")	3005 mm (9'10")	1454 mm (4'9")	Anti-Wear Blade with Bolt-on Cutting Edge	
	7.0 m <sup>3</sup> (9.2 yd <sup>3</sup> )	3530 mm (11'7")	2032 mm (6'8")	100 mm (4")	3703 mm (12'2")	1400 mm (4'7")	Anti-Wear Blade with Bolt-on Cutting Edge	
Rock	3.5 m <sup>3</sup> (4.6 yd <sup>3</sup> )	3,116 mm (10' 3")	1,480 mm (4' 10")	100 mm (4")	3,076 mm (10' 1")	1,341 mm (4' 5")	V-shape Anti-Wear Blade with Bolt-on Cutting Edge and Welded Teeth.	
	4.0 m <sup>3</sup> (5.2 yd <sup>3</sup> )	3,116 mm (10' 3")	1,527 mm (5' )	100 mm (4")	3,019 mm (9' 11")	1,398 mm (4' 7")	V-shape Anti-Wear Blade with Bolt-on Cutting Edge and Welded Teeth.	
	4.2 m <sup>3</sup> (5.5 yd <sup>3</sup> )	3,116 mm (10' 3")	1,556 mm (5'1")	100 mm (4")	3,019 mm (9' 11")	1,398 mm (4' 7")	V-shape Anti-Wear Blade with Bolt-on Cutting Edge and Welded Teeth.	
Grapple	1,000 mm (4' 5")	2,624 mm (8' 7")	1,950 mm (6' 5")	100 mm (4")	2,805 mm (9' 2")	1,680 mm (5' 6")	Aligned Teeth.	
	700 mm (4' 5")	2,760 mm (9' 1")	2,120 mm (6' 12")	100 mm (4")	2,845 mm (9' 4")	1,618 mm (5' 4")	Crossed Teeth.	

# STANDARD EQUIPMENT

## ENGINE

- Cummins QSL9 Engine, EPA Tier 4 final/ EU Stage IV, Engine output net 235kW ,Air-to-air intercooled, 6 cylinders, 4 stroke
- Hydraulic driven fan
- EFI(Electric Fuel Injection)
- ECM faults inspecting system
- Intelligent Power Control(IPC)
- Grid Heater

## TRANSMISSION

- ZF Ergopower 4WG260 automatic power shift transmission
- Three modes\_Manual, Powerful, Efficient
- ICCO (Intelligent Clutch Cut-Off)
- AEB clutch adjustment
- Kick-down function, FNR, F4/R3
- Secondary oil filter, oil stick
- Remote pressure taps for diagnostics
- Electronic controlled parking brake

## AXLE

- ZF MT-L wet axles
- Front and rear are limited slip differential
- Wet discs service brake system

## HYDRAULIC SYSTEM

- Two piston pumps with variable displacement. Hydraulic load-sensing according to demand.
- Easy simultaneous operating of lift & tilt
- Bucket positioner, automatic
- Lowering the lift boom without engine power

## STEERING SYSTEM

- Load sensing system with mature technology of flow amplification and steering priority.
- Emergency steering system

## TIRE & RIM

- 26.5R25 \*\*/L3 Radial tire
- Full fender

## CHASSIS FRAME

- Spacious central articulation arrangement with conic bearing
- Articulation locking bar
- Tow hitch
- Each side with rubber cushion stops

## LINKAGE & ATTACHMENTS

- Z-bar linkage

## ELECTRIC SYSTEM

- Two front lights with high/low beam
- Four front headlights on top of cab, LED
- Two rear headlights on top of cab, LED
- Turn signals with flasher
- Batteries, free of maintenance
- Cigarette lighter, 24 V power outlet
- Front and rear windshield wiper
- Electronic device compartment
- Back-up Alarm
- Radio/player with USB port
- Reversing warning light, automatic

## GAUGE GROUP

- Engine coolant temperature
- Transmission oil temperature
- Fuel level
- Hour meter
- Voltage
- Speed indicator

## INDICATOR GROUP

- Air inlet heater
- Battery charging
- Parking brake applied
- Machine emergent stop
- Power cut-off
- Engine servicing
- Turning lights
- Engine starter running
- Beam of front light

## CAB

- Certified FOPS (ISO 3449) and ROPS (ISO 3471) cab
- Machinery suspension seat, armrest
- Adjustable steering column, front & rear
- Large curved front glass, adhesive
- Rubber cab mounts
- Cab fresh air filter
- One interior & Dual exterior rear-view mirrors
- Rear-view camera display
- Air conditioner
- Cigar lighter
- Cab rear windshield defroster
- Sun visor
- Fire extinguisher

## OTHERS

- Automatic central lubrication
- Wedge block

# OPTIONAL EQUIPMENT

## ENGINE

- Cold start aid
- Multistage filters
- Electric fuel-feed pump
- Engine body heater port

## HYDRAULIC SYSTEM

- Ride control
- Hydraulic driven reversible fan
- Third valve and multipurpose lines
- Fingertip levers control, electronic proportional

## TIRE & RIM

- Bias tire, Tubeless
- Tire protective chain
- L5 Pattern

## CAB

- Heated air suspension seat
- Heated external rear view mirrors
- Air suspension seat

## ELECTRIC SYSTEM

- Electric load weigher
- Front six headlights on top of cab, LED
- Rear headlights on top of cab, LED
- Rotating beacon

## LINKAGE & ATTACHMENTS

- Additional Counterweight
- Quick Coupler
- Bolt-on wear-resisted blade and teeth
- Light material bucket
- Rock bucket
- Grapple with aligned or crossed teeth



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