

SPECIFICATIONS

Operating weight 25,300 kg

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.

Bucket capacity 3.5 - 8 m³

ENGINE

Description

Engine: Cummins EPA Tier 3 / EU Stage IIIA, 11 liter, 6-cylinder straight turbocharged diesel engine.

Air cleaning: Three-stage air filter.

Cooling system: Charge air cooler, hydraulic motor drive and temperature-controlled fan.

Emission rating EPA Tier 3 / EU Stage IIIA

Make Cummins

Model QSM11

Engine output - Max gross (SAE J1995 / ISO 14396) 272 kW (365 hp) @ 1,800 rpm

Engine output - Max net (SAE J1349 / ISO 9249) 258 kW (346 hp) @ 1,800 rpm

Peak torque 1,674 N·m @ 1,400 rpm

Displacement 10.8 L

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

Maximum travel speed, rev 27.5 km/h

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 21 MPa

Steering cylinders 2

Cylinder bore 100 mm

Rod diameter 60 mm

Stroke 500 mm

Maximum flow 460 L/min

Maximum articulation ±38°

Smallest turn (over tire) 6,625 mm

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

Raise 5.8 s

Dump time 1.3 s

Float down time 3.2 s

Fastest total cycle time 10.3 s

Controls Joystick

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 Mechanical

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:

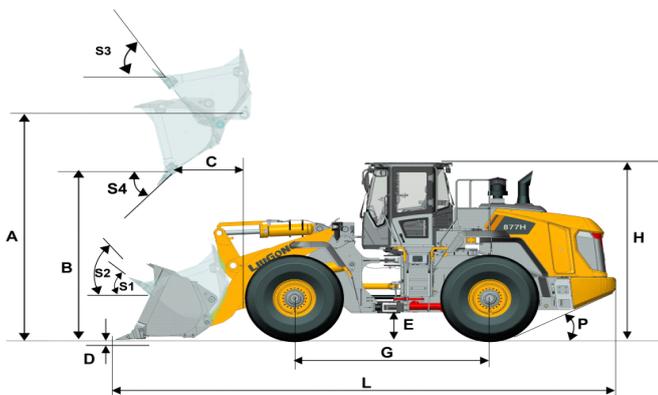
Serious engine fault, low steering system pressure, interruption in communication (computer failure).

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

DIMENSIONS

E	Ground clearance	485 mm
G	Wheelbase	3,550 mm
H	Cab height	3,580 mm
J	Wheel tread	2,270 mm
K	Width over tires	2,970 mm
L	Length with bucket down	9,300 mm
M	Turn angle, either side	38°
P	Rear angle of departure	26°
R ₁	Turning radius, bucket carry	7,550 mm
R ₂	Turning radius, outside of tire	6,625 mm



SOUND & ENVIRONMENT

Sound level in cab according to ISO 6396-2008/EN ISO 3744-1995	77 dB(A)-- Travel mode
Sound level in cab according to ISO 6396-2008/EN ISO 3744-1995	78 dB(A)-- Stationary work cycle mode
External sound level according to ISO 6395-2008	109 dB(A)-- Travel mode
External sound level according to ISO 6395-2008	110 dB(A)-- Stationary work cycle mode
Ventilation	9.2 m ³
Heating capacity	5.8 kW
Air conditioning	6 kW

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

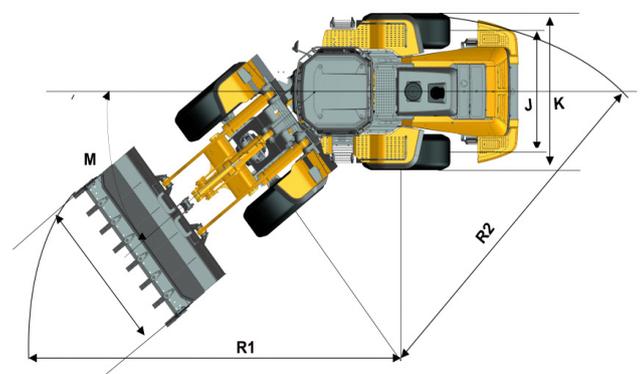
Description

Tipping Load data is calculated with standard bucket at 4.5 m³ and operating weight at 25,300 kg.

Tipping load - straight according to ISO 14397-1:2007	20,378 kg
Tipping load - full turn according to ISO 14397-1:2007	17,560 kg
Bucket breakout force	220 kN
A Maximum hinge pin height	4,552 mm
B Dump clearance at full height discharge	3,300 mm
C Dump reach at full height discharge	1,385 mm
D Maximum digging depth, bucket level	100 mm
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°

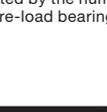
SERVICE REFILL CAPACITIES

Fuel tank	420 L
Engine oil	33 L
Cooling system	36 L
Hydraulic system	220 L
Transmission and torque converter	50 L
Axles, each	60 L



TIRES

Choosing the right tyres 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 full range of tyres specially tailored for wheel loader.

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

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	Attachment Drawing
Standard	4.5 m ³	3,150 mm	1,637 mm	100 mm	3,336 mm	1,283 mm	Anti-Wear Blade with Bolt-on Cutting Edge and Bolt-on Teeth.	
	4.2 m ³	3,150 mm	1,586 mm	100 mm	3,350 mm	1,212 mm	Anti-Wear Blade with Bolt-on Cutting Edge and Bolt-on Teeth.	
General Purpose	4.7 m ³	3,150 mm	1,637 mm	100 mm	3,265 mm	1,298 mm	Anti-Wear Blade with Bolt-on Cutting Edge and Bolt-on Teeth.	
	5.2 m ³	3,425 mm	1,637 mm	100 mm	3,265 mm	1,298 mm	Anti-Wear Blade with Bolt-on Cutting Edge and Bolt-on Teeth.	
Light Material	6.0 m ³	3,530 mm	1,646 mm	100 mm	3,202 mm	1,406 mm	Anti-Wear Blade with Bolt-on Cutting Edge	
	7.0 m ³	3,530 mm	2,032 mm	100 mm	3,244 mm	1,374 mm	Anti-Wear Blade with Bolt-on Cutting Edge	
Rock	3.5 m ³	3,115 mm	1,480 mm	100 mm	3,272 mm	1,304 mm	V-shape Anti-Wear Blade with Bolt-on Cutting Edge and Welded Teeth.	
	4.0 m ³	3,106 mm	1,527 mm	100 mm	3,216 mm	1,360 mm	V-shape Anti-Wear Blade with Bolt-on Cutting Edge and Welded Teeth.	
Grapple	4.2 m ³	3,106 mm	1,556 mm	100 mm	3,216 mm	1,360 mm	V-shape Anti-Wear Blade with Bolt-on Cutting Edge and Welded Teeth.	
	Φ1,000 mm	2,624 mm	1,850 mm	100 mm	2,992 mm	1,627 mm	Aligned Teeth.	
Grapple	Φ700 mm	2,760 mm	2,000 mm	100 mm	3,022 mm	1,597 mm	Crossed Teeth.	
	Φ1,450 mm	1,942 mm	2,150 mm	100 mm	2,772 mm	1,566 mm	All-round Teeth.	

STANDARD EQUIPMENT

ENGINE

- Cummins QSM11, EPA Tier 3/ EU Stage IIIA, Engine output max net power 258 kW (346 hp), 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
- 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

- 26.5-25 PR26/L3 Bias tire

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
- Rotate speed

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

- Radial tire
- Tire protective chain
- L5 Pattern
- Full fender

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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