

# 8128H

## WHEEL LOADER

Tier 3/ Stage IIIA



## SPECIFICATIONS

<b>Operating weight</b>	<b>52,000 kg</b>
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.	
<b>Bucket capacity</b>	<b>6.5 - 12 m<sup>3</sup></b>

ENGINE	
Description	
Engine: Cummins Tier 3 / Stage IIIA, 19 liter, 6-cylinder straight turbocharged diesel engine.	
Air cleaning: Multi-stage air filter.	
Cooling system: Charge air cooler, hydraulic motor drive and temperature-controlled fan.	
Emission rating	Tier 3 / Stage IIIA
Make	Cummins
Model	QSK19
Engine output - Max gross (SAE J1995 / ISO 14396)	419 kW (562 hp) @ 1,600 rpm
Engine Output - Max net (SAE J1349 / ISO 9249)	398 kW (534 hp) @ 1,600 rpm
Peak torque	2,644 N · m @ 1,500 rpm
Displacement	19
Number of cylinders	6
Aspiration	Turbocharged & Air-to-air intercooled

AXLES	
Model	Kessler
Differential front type	Differential, limited slip
Differential rear type	Open
Axle oscillation	±12°

TRANSMISSION	
Description	
Torque converter: single-stage, three elements; free wheel stator;	
Transmission: DANA transmission F4/R4, Electro proportional valve.	
Gear shifting system: DANA 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 speed priority modes.	
Transmission type	Countershaft, power shift
Torque converter	Single stage, three elements, free wheel stator
Maximum travel speed, fwd	36 km/h
Maximum travel speed, rev	36 km/h
Number of speed, fwd	4
Number of speed, rev	4

STEERING	
Description	
Steering system: Load-sensing hydraulic articulated steering.	
System supply: The steering system has priority feed from two load-sensing axial piston pumps with variable displacement, three-pumps confluence & Steering priority.	
Steering cylinders: Two double-acting cylinders.	
Steering configuration	Articulated
Steering relief pressure	21 MPa
Steering cylinders	2
Cylinder bore	125 mm
Rod diameter	70 mm
Stroke	774 mm
Maximum flow	190 L/min
Maximum articulation	±43°
Smallest turn (over tire)	7,620 mm

HYDRAULIC SYSTEM	
Description	
System supply: Three load-sensing axial piston pumps with variable displacement and flow confluence with steering function always priority.	
Valves: Double-acting 2-spool valve.	
The main valve is controlled by pilot pressure and electric hydraulic servo.	
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 7 micron (absolute) filter cartridge.	
Main pump type	Piston
Main relief pressure	26 MPa
Raise	8.5 s
Dump time	2.1 s
Float down time	4.0 s
Fastest total cycle time	14.6 s
Controls	3 levers, finger control

BRAKES	
Description	
MICO brake solution: Two independent brake circuits Enclosed wet-disc	
Service brake type	Wet Multi-Disc brake
Service brake actuation	Hydraulic
Parking brake type	External caliper-disc parking
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 with the gear engaged 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	3,920 W / 70 A
Starter motor output	8 kW

## SERVICE REFILL CAPACITIES

Fuel tank	667 L
Engine oil	60 L
Cooling system	95 L
Hydraulic system	420 L
Transmission and torque converter	140 L
Axles, each	115 L

## SOUND & ENVIRONMENT

Sound level in cab according to ISO 6396-2008/EN ISO 3744-1995	78 dB(A)-- Travel mode
Sound level in cab according to ISO 6396-2008/EN ISO 3744-1995	TBA--Stationary work cycle mode
External sound level according to ISO 6395-2008	112 dB(A)-- Travel mode
External sound level according to ISO 6395-2008	TBA--Stationary work cycle mode
Ventilation	9.2 m <sup>3</sup>
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 WITH ATTACHMENT

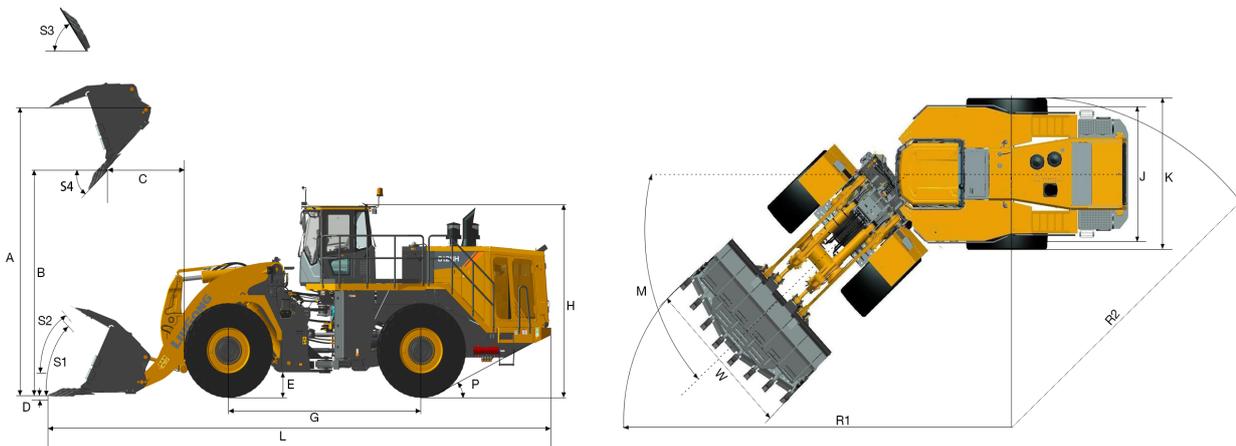
### Description

Tipping Load data is calculated with standard bucket at 7.0 m<sup>3</sup> and operating weight at 52,000 kg.

Tipping load - straight according to ISO 14397-1:2007	38,900 kg
Tipping load - full turn according to ISO 14397-1:2007	32,600 kg
Bucket breakout force	395 kN
A Maximum hinge pin height	5,649 mm
B Dump clearance at full height discharge	3,910 mm
C Dump reach at full height discharge	2,050 mm
D Maximum digging depth, bucket level	137 mm
S1 Bucket rollback at ground level	43°
S2 Bucket rollback at carry	49°
S3 Bucket rollback at maximum height	56°
S4 Maximum dump angle at full height	45°

## DIMENSIONS

E Ground clearance	480 mm
G Wheelbase	4,550 mm
H Cab height	4,195 mm
J Wheel tread	2,700 mm
K Width over tires	3,590 mm
L Length with bucket down	11,847 mm
M Turn angle, either side	43°
P Rear angle of departure	25°
R <sub>1</sub> Turning radius, bucket carry	8,620 mm
R <sub>2</sub> Turning radius, outside of tire	7,620 mm



## 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
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>		35/65-33	30	TL	890 mm	2,075 mm	107 mm	12,600 / 21,200 kg
			35/65 R33	**	TL	934 mm	2,056 mm	98 mm	27,250 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	7 m <sup>3</sup>	3,810 mm	5,649 mm	150 mm	3,910 mm	2,050 mm	Bolt-on Teeth And Bolt-on Cutting Edge	
Rock	6.5 m <sup>3</sup>	3,810 mm	5,649 mm	150 mm	3,910 mm	2,050 mm	Bolt-on Cutting Edge	Light Material
Light Material	10 m <sup>3</sup>	3,740 mm	5,649 mm	150 mm	3,950 mm	1,982 mm	Bolt-on Cutting Edge	
	12 m <sup>3</sup>	4,300 mm	5,649 mm	150 mm	4,120 mm	1,814 mm	Bolt-on Cutting Edge	

# STANDARD EQUIPMENT

## ENGINE

- Cummins QSK19 Engine, Tier 3 / Stage IIIA, Engine output - max net 398 kW (534 hp), Air-to-air intercooled, 6 cylinders, 4 stroke
- EFI (Electric Fuel Injection)
- ECM faults inspecting system
- Pre-filter with waster separator
- Hydraulic driven reversible fan
- Grid heater

## TRANSMISSION

- DANA automatic power shift transmission
- Three modes\_ Manual, Powerful, Efficient
- AEB clutch adjustment
- Kick-down function, FNR, F4/R4
- Secondary oil filter, oil stick
- Remote pressure taps for diagnostics

## AXLE

- Kessler wet axles
- Differentials - DHL (differential hydraulic limited)
- Wet discs service brake system

## HYDRAULIC SYSTEM

- Three piston pumps with variable displacement. Hydraulic load-sensing according to demand
- Fingertip levers control, electro hydraulic
- 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.

## TIRE & RIM

- 35/65 R33 Radial tire

## CHASSIS FRAME

- Spacious central articulation arrangement with conic bearing
- Articulation locking bar
- Tow hitch
- Rubber cushion articulation stops

## LINKAGE & ATTACHMENTS

- Double Z-bar linkage
- Automatic central lubrication
- Rock bucket

## 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
- Brake oil pressure

## 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
- Grammer air suspension seat, armrest
- Adjustable steering column
- Large curved front glass
- Rubber cab mounts
- Cab fresh air filter
- One interior & dual exterior rear-view mirrors
- Rear-view camera display
- Air conditioner
- Cigar lighter
- Cab rear window defroster
- Sun visor
- Fire extinguisher

# OPTIONAL EQUIPMENT

## HYDRAULIC SYSTEM

- Ride control

## CAB

- Heated air suspension seat
- Heated external rear view mirrors

## ELECTRIC SYSTEM

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

## LINKAGE & ATTACHMENTS

- Light material bucket



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