



Wheel Loader General Specifications



Operating capacities, weights and dimensions					
	Standard lift		Highl	ift	
Bucket capacity**	32.88m ³	43 yd ³	30.58 m ³	40 yd ³	
Operating payload	58967 kg	130000 lb	54431 kg	120000 lb	
Static tipping loads					
Straight	TBD	TBD	147211 kg	324545 lb	
Full 40° turn	TBD	TBD	128996 kg	284388 lb	
Breakout force	1074833 N	241632 lb	935042 N	210206 lb	
Operating weight	268481 kg	592000 lb	269887 kg	595000 lb	

** Standard rock bucket based on a material density of 1780 kg/m³ (3000 lb/yd³)

Working ranges			
Engine	1491 kW	2000 hp	
Kinetic Energy Storage System (KESS)***	1268 kW	1700 hp	
Payload Standard High lift	58967 kg 54331 kg	130000 lb 120000 lb	
Bucket capacity sized to material density			
Truck match	218 - 327 tonne 240 - 360		
*** Kinetic Energy Storage System	Power available for acceleration events and parasitic loads		

Power module

Diesel power options Cummins diesel engine	Tier 1, Tier 2 or Tier 4		
Model	QSK 60 16 cylinders		
Туре	4-cycle turbocharged		
Rated power	1491 kW (2000 hp) @ 1800 rpm		
MTU Detroit diesel engine	Tier 1, Tier 2	Tier 4	
Model	16V series 4000 16 cylinders	12V series 4000 12 cylinders	
Туре	4-cycle turbocharged		
Rated power	1491 kW (2000 hp) @ 1800 rpm		

The independent power module mounting system, consisting of the engine coupled to the SR generator, is cradled within the rear frame by a three-point isolation system.

Radiator/oil cooler module

Replaceable tube type, side-by-side split flow

• Thermostatically controlled, variable speed hydraulic motor-driven, radiator-mounted fan

Exhaust system

Dual, low restriction mufflers with vertical, mid-hood discharge

Control system-LINCS II

LINCS II

Microprocessor based modular design Vehicle Control Unit (VCU) with monitoring and diagnostics including integrated data logging and storage.

LINCS II uses a dash mounted full color, touch screen display as the operator interface. Out-of-range conditions will cause an audible alarm along with a message screen that is color coded to indicate severity.

In addition, the touch-screen display provides repair technicians with operational data and fault messages.

LINCS II load weigh

Displays real-time load per pass, per truck and total loads

- Memory capable of retaining months of production information
- Capable of interfacing with radio dispatch systems for
- real-time monitoring

Steering and hoisting system

Steering

Steering function is controlled by a single joystick. Constant engine rpm assures full hydraulic steering response.

Articulation angle	40°	
Turning radius		
Standard lift	17.06 m	55 ft 11 in
High lift	16.10 m	52 ft 10 in

Hoist and bucket control

Hoist and bucket control functions are incorporated into a single joystick control. The proportional electro-hydraulic controlled hoist and bucket system is independent of the steering system.

Standard/high lift cycle times:

J	
Hoist	12.6 Seconds*
Dump	2.9 Seconds*
Float	5 Seconds*

HPD gear box cooler module

• Thermostatically controlled, variable speed 24V electric motor-driven, radiator mounted fan.

Propulsion system

SR Hybrid Drive switched reluctance (SR) technology

- propulsion system
- Digital microprocessor controlled traction drive
- SR Hybrid Drive advantages include:
- No commutator, brushes or rotor windings on SR motors or generator
- SR KESS Kinetic Energy Storage System
- Parts commonality power conversion modules identical for motor and generator

Travel speed

Forward and reverse 0-19.31 km/h (0-12 mph)

- Generator G200 SR generator
- Switched reluctance (SR)

Traction motors

B60 SR motor

Planetary gearing

- Model 57
- In-line gear train mounted within the rim of the tire, transmitting power from the traction motor through the tire/rim assembly.
- A four-stage planetary drive unit in each position
- Total reduction 99:1

Hydraulic system

HPD drive box

· Pressurized, cooled, and filtered lubrication

• Ratio 1:1

Pumps (maximum flow r	ate at 1800 rpm)		
Main	Piston (5)	2336 L/min	617 gpm
Steering	Piston (2)	469 L/min	124 gpm
Fan	Piston	170 L/min	45 gpm
Accessory	Piston	83 L/min	22 gpm
Cooling system		83 L/min	22 gpm
Circulating pump	Vane	409 L/min	108 gpm
Valves (flow per valve)			
Main	Two (2)	1168 L/min	309 gpm
	Pump pressure	27580 kPa	4000 psi
Steering	One (1)	469 L/min	124 gpm
	Pump pressure	27580 kPa	4000 psi
Cylinders			
Double-acting, single-s	tage (diameter and stro	ke),	
(standard and high lift)	-		
Hoist	381 mm x 2108 mm 15 in x 83 ir		15 in x 83 in
Bucket	318 mm x 108	318 mm x 1086 mm 12.5 in x 42.8 in	
Steering	200 mm x 762 mm		88 in x 30 in

Braking system

Primary brake system

Electric dynamic braking system is controlled from the accelerator pedal and can bring the loader to a full stop without application of mechanical brakes.

Secondary brake system

- Air modulated traction motor speed disc brakes
- Single disc and caliper on each traction motor (4)
- Emergency fail safe brakes are spring applied in the event of air pressure loss

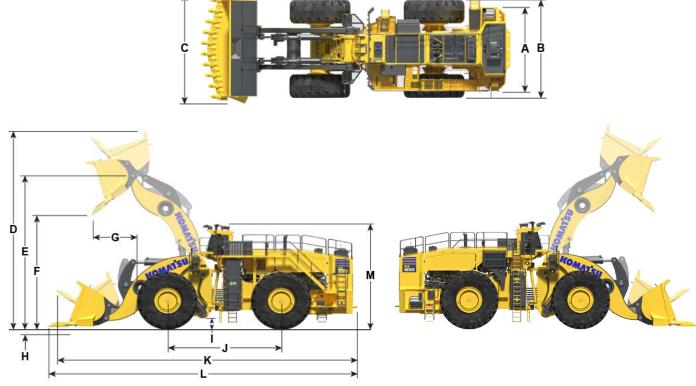
Parking brake system

Spring applied, air release traction motor speed disc brakes

Power electronics cooler mode

• Thermostatically controlled, variable speed 24V electric motor-driven, radiator mounted fan.





Air filtration

Overall dimensions

		Stand	ard lift	High	lift
Α	Tread	4.57 m	15ft 0in	4.57 m	15ft 0in
В	Width outside tires	6.04 m	19 ft 10 in	6.04 m	19 ft 10 in
C1	Rock bucket without deflectors	6.44 m	21ft Oin	6.44 m	21ft Oin
C2	Rock bucket with deflectors	6.71 m	22ft Oin	6.71 m	22ft Oin
C3	Coal bucket	7.44 m	24 ft 5 in	7.44 m	24 ft 5 in
D	Height bucket fully raised	12.62 m	41ft 5in	13.39 m	43 ft 11 in
E	Hinge – pin height	9.40 m	30 ft 10 in	9.91 m	32 ft 6 in
F	Dump clearance	6.48 m	21ft 3in	7.57 m	24 ft 10 in
G	Reach at full lift	3.81 m	12 ft 6 in	3.43 m	11 ft 3 in
Н	Digging depth	0.10 m	0ft 4in	0.10 m	0ft 4in
1	Ground clearance	0.69 m	2ft 3in	0.69 m	2 ft 3 in
J	Wheelbase	7.47 m	24 ft 6 in	7.47 m	24 ft 6 in
к	Overall length carry position	19.12 m	62ft 9in	19.81 m	65ft Oin
L	Overall length bucket down	19.84 m	65ft 2in	20.24 m	66ft 5in
М	Height over cab	6.73 m	22 ft 1 in	6.73 m	22 ft 1 in

*All dimensions are based on standard tires and standard rock bucket with GET unless otherwise noted.

t 0 in t 10 in	Primary Self cleaning KLENZ filtration system Replaceable Filter Media meets the 5000 hour filter life achievable Filtered air for engine, drive system 	MERV15 rating	ab	
t Oin t Oin	Secondary Dual safety filters for engine			
	Fluid capacities			
t 5in	Fuel	4542 L	1200 gal	
11 in	Hydraulic	1445 L	382 gal	
	SR converter cooling system	57 L	15 gal	
t 6in	Engine cooling system	490 L	130 gal	
10 in	Crankcase (includes filters)	0501	00	
	Detroit Cummins	250 L 204 L	66 gal 54 gal	
t 3 in	Gearbox	204 L 27 L	0	
t4in	Planetaries (each)	151 L	7 gal 40 gal	
t 3 in		1012	40 gai	
t 6in	Structural			
t 0 in	Frames are fabricated from high strength, low-alloy steel with excellent weld characteristics and extreme low temperature properties. The front			
t 5in	axle is an integral, fixed part of the fro oscillates 11 degrees.			

1 in Unique forged ball and socket joints are utilized in multiple pivot locations (lift arms, rear axle, frame articulation, hoist cylinders). These joints are superior in absorbing and distributing multi-directional stresses. Features easily replaceable brass liners for long life and easy maintenance.

> High strength castings are used in key areas of fabricated structures to reduce stress and improve structural life.

Tires/rims

Tires Rims

58/85-57 L-4 47 x 57 with 6" flange

Standard features

- 120V AC port
- 360 camera system
- Accelerometer
- Access ladder lights
- Air conditioning / heater-defroster (filtered and pressurized)
- Air dryer system
- Air horn
- Air tank bleed system
- Adjustable automatic lift height cut off
- Automatic bucket leveling control
- Automatic electrical cabinet lights
- Automatic lubrication system
- Back-up alarm, audible
- Battery disconnect switch
- Brake lights
- Central air regulator box
- Central service with fast fuel
- Data analysis and viewing software
- Data logging downloadable production and maintenance logs
- Door interlock on electrical cabinet
- Drawbar with tow points
- Emergency stop buttons (cab and remote mounted)
- Engine compartment lights
- Fire extinguisher, manual, 9.07 kg (20 lb)
- FOPS falling object protection system
- Idle timer
- Inclinometer
- Interior lights
- Isolation monitor
- · Joystick hoist and bucket control
- · Joystick steering control
- · Jump start
- · Ladder walkway (rear access w/retracting ladder)
- LED working lights (10 forward, 2 rear)
- LINCS II alarms
- · LINCS II load weigh and monitoring
- Mirrors, rearview (parabolic)(2)
- Operator seat (11-way adjustable)
- Overspeed alarm
- Parking brake
- Retractable lap belt with shoulder harness
- Rock deflectors (bucket)
- · ROPS rollover protection structure
- Selectable throttle switch
- · Starter disconnect switch
- · Tinted safety glass throughout
- Training seat (with lap belt)
- Turn signals
- Twelve (12) volt power supply in cab
- Twelve (12) volt power port
- USB Ports (2)
- · Walk around catwalk for cab
- Windshield washer reservoir (2.6 gal)
- Windshield wiper and washer (front and rear)

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Optional features

- Auxiliary steering
- Beacon light kit
- Bucket GET options available
- Cold weather package- including:
 - Battery heater
- Engine heating system (oil and water)
 Grease reservoir heater
- Hydraulic tank heater
- Exhaust discharge guard
- Fire detection and suppression system (manual)
- Fire suppression system (manual)
- Fluid sampling kit
- Lift arms high lift
 Tires/rims
- Tires 60/80R57
- Rims 47 x 57 with 5" flange
- · Windshield protection kit

Buckets

Standard, ISO-rated capacity: 58967 kg / 130000 lb

High lift, ISO-rated capacity:

54331 kg / 120000 lb

Rock and coal bucket configurations available Buckets sized to material density

Bucket hardware options

- Skid plates (replaceable)
- Lip wear protection
- Wear liner kits

For actual bucket configuration and sizing, consult your local representative.



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