

WE1350-3

Wheel Loader General Specifications



Operating capacities, weights and dimensions					
	Standa	rd lift	High I	ift	
Bucket capacity* Operating payload	22.94 m ³ 40823 kg	30 yd ³ 90000 lb	21.41 m³ 38102 kg	28 yd ³ 84000 lb	
Static tipping loads Straight	108776 kg	239809 lb	100068 kg	220612 lb	
Full 45° turn Breakout force Operating weight	98849 kg 978 kN 194228 kg	217925 lb 219772 lb 428200 lb	90936 kg 1004 kN 196496 kg	200480 lb 225687 lb 433200 lb	

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

Working ranges				
Engine	1249 kW	1676 hp		
KESS**	820 kW	1100 hp		
Payload				
Standard	40823 kg	90000 lb		
High lift	38102 kg	84000 lb		
Bucket capacity sized to material density				
Truck match	181 - 236 tonne	200 - 260 ton		
** Kinetic Energy Storage System - has HP available for acceleration events and				

** Kinetic Energy Storage System - has HP available for acceleration events and parasitic loads

Power module

Diesel power options	
Cummins diesel engine	Tier 4
Model	QSK 50 16 cylinders
Туре	4-cycle turbocharged
Rated power	1193 kW (1600 hp) @ 1800 rpm
MTU Detroit diesel engine	Tier 4
Model	12V Series 4000 12 cylinders
Туре	4-cycle turbocharged
Rated power	1249 kW (1676 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
- Auxiliary oil cooler available for high ambient conditions

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	13.50 m	44ft 4in
High lift	13.76 m	45 ft 2 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:

Hoist	11.8 Seconds
Dump	3.0 Seconds
Float	5.0 Seconds

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

G100 SR generator

Traction motors • B40A SR motor

• SR all wheel drive (independent SR motor for each wheel)

Planetary gearing

- Model 51A2
- 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 140.8:1

Hydraulic system

HPD drive box

Pressurized, cooled, and filtered lubrication
 Patie 1:1

Pumps (maximum flo	ow rate at 1800 rpm)		
Main	Piston (4)	1404 L/min	371 gpm
Steering	Piston	342 L/min	89 gpm
Fan/blower drive	Tandem piston	171/171 L/min	45/45 gpm
Accessory	Piston	81 L/min	21 gpm
Cooling system Circulating pump	Vane	409 L/min	108 gpm
Valves			
Main	Three (3)	700 L/min	185 gpm
	Pump pressure	27980 kPa	4000 psi
Steering	One (1)	341 L/min	90 gpm
-	Pump pressure	23443 kPa	3400 psi

Double-acting, single-stage (diameter and stroke), (standard and high lift)			
Hoist	343 mm x 1892 mm	13.5 in x 74.5 in	
Bucket	254 mm x 1054 mm	10 in x 41.5 in	
Steering	190 mm x 762 mm	7.5 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

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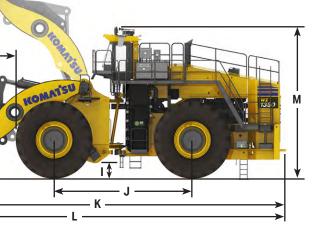
Overall dimensions

С

		Stan	dard lift	High I	ift
А	Tread	4.45 m	14 ft 7 in	4.45 m	14 ft
В	Width outside tires	5.77 m	18 ft 11 in	5.77 m	18 ft
C1	Rock bucket without deflectors	6.40 m	21ft Oin	6.40 m	21 ft
C2	Rock bucket with deflectors	6.71 m	22ft Oin	6.71 m	22 ft
C3	Coal bucket	7.44 m	24 ft 5 in	7.44 m	24 ft
D	Height bucket fully raised	11.40 m	37 ft 5 in	11.73 m	38 ft
E	Hinge – pin height	8.71 m	28 ft 7 in	9.14 m	30 ft
F	Dump clearance	6.42 m	21ft 1in	7.06 m	23 ft
G	Reach at full lift	2.69 m	8 ft 10 in	2.79 m	9 ft
Н	Digging depth	0.15 m	0ft 6in	0.25 m	0 ft
I	Ground clearance	0.62 m	2 ft 0 in	0.62 m	2 ft
J	Wheelbase	6.56 m	21 ft 6 in	6.56 m	21 ft
K	Overall length carry position	16.93 m	55 ft 7 in	17.52 m	57 ft
L	Overall length bucket down	17.31 m	56 ft 10 in	17.70 m	58 ft
М	Height over cab	6.69 m	22 ft 10 in	6.69 m	22 ft

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

General specifications



	Air filtration		
7 in 11 in 0 in	 Primary Self cleaning KLENZ filtration system Replaceable Filter Media meets the N 5000 hour filter life achievable Filtered air for engine, drive system of 	MERV 15 rating	cab
0 in	Secondary Dual safety filters for engine		
5 in	Fluid capacities		
6 in	Fuel Hydraulic SD converter cooling custom	3501 L 1419 L	925 gal 375 gal
0 in	SR converter cooling system Engine cooling system	117 L 382 L	31 gal 101 gal
2 in	Crankcase (includes filters)		0
2 in	Detroit Cummins	330 L 216 L	87 gal
10 in	Gearbox	216L 27L	57 gal 7 gal
0 in	Planetaries (each)	136 L	36 gal
6 in			
6 in	Structural		
1 in	Frames are fabricated from high stren weld characteristics and extreme low t	temperature properties	. The front
10 in	axle is an integral, fixed part of the from oscillates 11 degrees.		Jenter
nless	Unique forged ball and socket joints an locations (lift arms, rear axle, frame ar joints are superior in absorbing and di stresses. Features easily replaceable to easy maintenance.	ticulation, hoist cylinde stributing multi-direction	ers). These onal
	High strength castings are used in key reduce stress and improve structural li		uctures to

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Tires/rims

Tires Rims 50/80-57 L-4 36 x 57 with 6" flange

Standard features

Standard equipment

- Access ladder lights
- Air clean-out hose in cab
- 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
- · 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 defectors (bucket)
- ROPS rollover protection structure
- · Selectable throttle switch
- · Starter disconnect switch
- · Sun visor
- Tinted safety glass throughout
 Training seat (with lap belt)
- Turn signals
- Twelve (12) volt power supply in cab
- Twelve (12) volt power port (2)
- · Walk around catwalk for cab
- Windshield washer reservoir (2.6 gal)
- Windshield wiper and washer (front and rear)

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
- Fast fuel
- · Fire detection and suppression system (manual)
- Fire suppression system (manual)
- · Fluid sampling kit
- Lift arms high lift • Tires/rims
- Tires-55/80R-57
- Rims-44 x 57 with 5" flange
- · Video camera (rear mount)
- Windshield protection kit

Buckets

Standard, ISO-rated capacity: 40823 kg / 90000 lb

High lift, ISO-rated capacity:

38102 kg / 84000 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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