

85 Z 55 WHEELLOADER

Direct-injection, turbocharged 163kW(218hp) engine Operating weight 21ton, Bucket capacity 3.2-4.0m³ Strong and robust main structures Tough and proven hydraulic components Productive and dependable performance



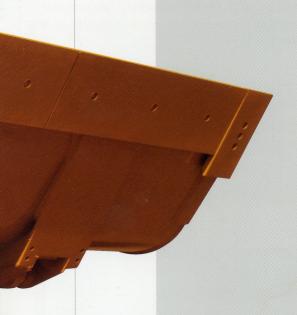
THE ADVANCED TRADITION SIMPLE DURABLE DEPENDABLE



The machines in the pictures may include optional items.

Please consult your local Kawasaki dealer for the available optional items.





The outstanding performance of Kawasaki wheel loaders has been proven all over the world.

Continuous improvement in quality since its release, the Kawasaki wheel loaders offer long service life and outstanding productivity.

Kawasaki, a major Japanese manufacturer of wheel loaders for over half of a century combines innovative technologies and real world experience to produce the finest wheel loader in the industry.

Simple and straight forward, Kawasaki eliminates excessive functions to enhance productivity, durability, reliability, and lower operating costs.

Overall simple design makes maintenance easier and reduces costs.

Kawasaki focuses on simple design to offer the highest reliability and the easiest maintenance with minimum down time.

"Kawasaki Made" major components such as the transmission, axle and hydraulic valve are developed and manufactured by experienced personnel that concentrate their knowledge and technologies to produce the best components for Kawasaki wheel loaders.

BEST OF BOTH WORLDS, PRODUCTIVE AND DEPENDABLE

HOIST ARM & BUCKET

With strong and robust hoist arms and linkage, Kawasaki loaders perform well in a wide variety of applications. High breakout force and excellent bucket rollback mean bigger loads and better load retention. Buckets are designed for easy loading and are equipped with bolt-on cutting edges or teeth for easy changing. The bucket leveler and boom kickout are standard.

SEALED BUCKET HINGE PIN

The special seal in the bucket hinge pin provides excellent sealing and grease retention which extends pin life.



FULL BOX FRAME CHASSIS

Full box section frame is the strongest in the industry and resists twisting loads better than plate frames.



BUFFER RINGS IN HYDRAULIC CYLINDER

The hydraulic cylinders utilize a buffer ring to improve sealing capability to reduce leakage.

RIDE CONTROL (OPT)

Ride Control provides stable load handling during load and carry operation. It reduces bouncing of the equipment while traveling, improves safety, productivity and operator comfort. The system comes with speed sensitive, automatic on/off feature.



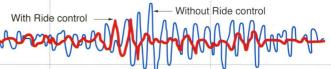
HYDRAULIC GEAR PUMP

A proven gear pump is the heart of the hydraulic system. The durable and dependable design of this gear pump provides excellent performance. Gear pumps are dirt-tolerant and heat resistant even under extremely tough job conditions. Its simple structure makes maintenance cost low.

INCREASED GREASING INTERVALS FOR UNIVERSAL JOINTS

Sealed universal joints only require greasing every 12000hours. This reduces maintenance costs significantly and provides greater durability.







EASY ACCESS SIMPLIFIES SERVICING



Maintenance is enhanced with the engine access panels that can be opened wide for better access.

Filters are conveniently located for easy change and the grease fittings are grouped to reduce maintenance time and insure proper lubrication.

SIMPLE & EFFICIENT, ONE-TOUCH OPEN-TOP RADIATOR GRILLE

To facilitate cleaning the radiator, the radiator grille swings open with pneumatic support gas springs.



LED REAR LAMPS (OPT)

Long life, LED lamps are available as an option for the rear tail lights.
These lights are very bright and durable.



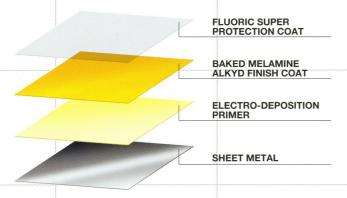
HALOGEN HEAD LAMPS

Front and rear working lights are bright, halogen lamps for improved safety and visibility.



HIGH QUALITY FINISH PAINT FOR SHEET METAL PARTS

Kawasaki's sophisticated painting process utilizes ED (Electro-deposition) primer, a baked Melamine Alkyd finish coat as well as a fluoric super protection coat for a durable and attractive finish.





The machines in the pictures may include optional items.

Please consult your local Kawasaki dealer for the available optional items.

THE COMFORT ZONE "NO OTHER PLACE LIKE THIS CAB"

CAB (OPT)

Excellent visibility in all directions is enhanced with both inside and outside mirrors.

The front windshield is flat glass mounted in rubber gaskets that make windshield replacement fast and easy. Viscous mounting of the cab reduces vibration and noise.



ROPS/FOPS CAPABILITY (OPT)

The operator's cab is fully certified to meet all ROPS (Rollover Protective Structure) and FOPS (Falling Object Protective Structure) regulations.



FULLY AUTOMATIC HEATER AND AIR CONDITIONER (OPT)

The thermostatically controlled air conditioner/heater provides automatic adjustment to keep the operator comfortable in any environment.

The high capacity vents provide adequate airflow for efficient defrosting and an even temperature distribution.

By pressurizing the cab, the climate control system keeps dust out of the cab.





MULTI ADJUSTABLE FUNCTION OPERATOR'S SEAT

The fully adjustable suspension seat offers excellent comfort to reduce operator fatigue and increase productivity.





TILT AND TELESCOPIC STEERING

The tilt and telescopic steering column adjusts to fit a variety of operator needs and offers greater comfort and efficiency.



AT-A-GLANCE METERS AND GAUGES

The exact conditions of the machine can be instantly checked from the gauges and indicator lights on the instrument panel; speedometer, engine water temp. gauge, transmission oil temp. gauge, fuel indicator, engine hour meter, and various other warning and indicator lights.



BOOM AND BUCKET CONTROL LEVERS

The pilot operated hydraulic control levers with wrist rest give the operator better control. Downtime can be minimized, thanks to the simplified mechanical structure.

DOWNSHIFT BUTTON

The downshift button located on the boom control lever provides for quick, convenient downshifting from 2nd gear to 1st gear.



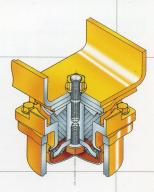
CUP HOLDERS

Cup holders are available on the console box.



VISCOUS MOUNT

Viscous mounting of the cab effectively reduces noise and vibration that provides greater comfort for an operator.



The machines in the pictures may include optional items.

Please consult your local Kawasaki dealer for the available optional items.

OPERATING SPECIFICATIONS

Engine

Make & model	HINO "J08C-TI" diesel engine				
Туре	4-cycle, water-cooled, direct injection,				
	with turbocharged and air cooled intercooler				
Rated power	Gross - SAE J1995	184 kW (246 hp)/2,200 rpm			
	Net - ISO 9249				
	SAE J1349	163 kW (218 hp)/2,200 rpm			
	80/1269/EEC	te light			
Maximum torque	Gross	970 N·m (99 kgf·m)/1,400 rpm			
6	Net	912 N·m (93 kgf·m)/1,200 rpm			
Number of cylinders	6				
(bore × stroke)	114 mm × 130 mm				
Total displacement	7961 cc				
Cooling type	Hydraulic drive pusher type fan				
2.2	Pressurized radiato	or -			
Fuel injection pump	Bosch type				
Governor	All-speed mechanical type				
Air cleaner	Dry type (Double element)				
Generator	AC 24V 1.2 kW (50 ampere)				
Starter motor	DC 24V 4.5 kW (6.0 hp)				
Batteries	DC 12V 108 Ah × 2				

Torque converter & Transmission

Torque converter	Make & model	Kawasaki				
2	Thanks of this do	3-element, 1-stage, 1-phase				
	Stall torque ratio	3.42	tago, i pilaco			
Transmission	Make & model	Kawasaki, Ful	power shift			
		Countershaft type				
	Clutch type	Wet hydraulic,	multi disc			
Traveling speed		Forward	Reverse			
	1st	7.5 km/h	7.7 km/h			
	2nd	12.6 km/h	13.0 km/h			
	3rd	21.2 km/h	21.8 km/h			
	4th	35.7 km/h	36.5 km/h			
Reduction gear		Forward	Reverse			
ratio	1st	3.910	3.792			
	2nd	2.283	2.214			
	3rd	1.296	1.257			
	4th	0.693	0.672			

Axles & Final drives

4-wheel drive
Kawasaki
Full floating type
Spiral bevel gear, torque proportioning,
single stage reduction gear ratio 4.333
Outboard mounted, Internal planetary gear
gear ratio 5.333
± 14°
23.5 (L3) Tubeless
19.50 × 25

Brake system

Service brake	4-wheel wet-disc
	Controlled by fully hydraulic system
	Dual circuits
Parking brake	Spring applied oil pressure released
	type located on front driveline
Emergency brake	Same as parking, applied on
	failure in brake line

Steering system

Туре	Articulated frame steering,
	hydraulic power steering unit,
	pilot operated type
Steering valve	Kawasaki, Orbitroll and spool type
Full articulation angle	37° to each side

Loading system

Type	Front end loading, Z bar linkage system			
Bucket dumping angle at fully raised	sised 45°			
Hydraulic cycle time	Lifting (at full load)	6.5 sec		
	Lowering (empty)	4.2 sec		
	Dumping	1.4 sec		
	Total cycle time	12.1 sec		

Hydraulic system

· Oil pump	Steering	Gear type, 238 lit/min
	oil pump	6.9 Mpa (70 kgf/cm²) @2,200 rpm
	Main	Gear type, 108 lit/min,
	oil pump	6.9 Mpa (70 kgf/cm²) @2,200 rpm
	Pilot	Gear type, 76.2 lit/min,
	oil pump	6.9 Mpa (70 kgf/cm²) @2,200 rpm
Control valve	Loading	Multiple control valve
	Steering	Kawasaki, Orbitrol and spool type
Lift cylinder	Туре	Double acting piston
	Number,bore x stroke	2 × 160 mm bore × 860 mm stroke
Tilt cylinder	Туре	Double acting piston
	Number,bore × stroke	1 × 190mm bore × 544 mm stroke
Steering	Туре	Double acting piston
cylinder	Number,bore x stroke	2 × 90mm bore × 440 mm stroke
Relief set	Control valve	20.6 Mpa (210 kgf/cm²)
pressure	Steering valve	20.6 Mpa (210 kgf/cm²)

Service refill

Fuel tank	300 lit
Engine lubricant (including oil pan)	23 lit
Engine cooling water	33 lit
T/M & T/C	53 lit
Axle front/rear	154 lit
Hydraulic oil tank	120 lit
Hydraulic system (including oil tank)	210 lit

Weight change

Option	item	Operating Tipping load(kg)		Overall width(mm)	Vertical dimensions	Overall length(mm)	
		weight(kg)	Straight Full turn (outside tire) (mm		(mm)		
Canop	y (instead of ROPS cab)	-450	-430	-370	_	-65	_
Soft ca	b (instead of ROPS cab)	-230	-220	-190	_	_	_
Remov	al ROPS cab	-520	-505	-430	_	-270	_
	23.5R25(L3)	±0	±0	±0	±0	±0	±0
	23.5R25(L4)	+420	+310	+270	+30	±0	±0
	23.5R25(L5)	+560	+415	+360	±0	±0	±0
Tires	26.5R25(L3)	+560	+415	+360	+60	+60	-50
riies	26.5R25(L4)	+960	+710	+620	+75	+60	-50
	23.5-25-16PR(L3)	±0	±0	±0	±0	±0	±0
	23.5-25-16PR(L5)	+780	+565	+485	_	_	_
	26.5-25-20PR(L3)	+660	+475	+410	+85	+60	-50
Belly g	uard	+165	+235	+205	_	_	_

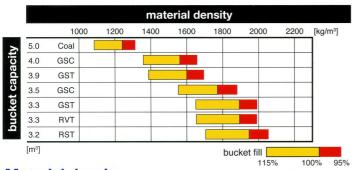


Bucket

						S	Standard boo	m		
					Genera	l purpose	Rock Straight-edge	Rock V-edge	Coal Straight-edge	
				Bolt-on edges	Teeth	Bolt-on edges	Teeth	Teeth	Teeth	Bolt-on edge
				GSC	GST	GSC	GST	RST	RVT	
										
Bucket capacity	heaped		m ³	4.0	3.9	3.5	3.3	3.2	3.3	5.0
	struck		m ³	3.5	3.3	3.0	2.8	2.7	2.8	4.2
Max. dumping clearance		а	mm	3,035	2,945	3,105	3,015	2,945	2,840	3,060
Max. dumping reach		b	mm	1,190	1,250	1,120	1,180	1,235	1,355	1,170
Max. hinge pin height			mm		4,250					
Digging depth (with bucket I	evel)	С	mm	130	145	130	145	155	155	120
Breakout force			kN	164	178	177	193	185	167	125
Bucket tilt-back angle	at carry position		deg				50°			
Overall length	· 1.45	d	mm	8,330	8,445	8,230	8,345	8,420	8,575	8,300
Overall height	up to cab top		mm	3,475						
	bucket full raise	е	mm	5,820	5,820	5,700	5,700	5,570	5,570	5,810
Overall width	outside tire		mm	2,845						
	outside bucket	f	mm	3,100	3,120	3,100	3,120	3,115	3,115	3,800
Tread			mm	2,230						
Wheel base			mm				3,300			
Min. turning radius	at outside bucket	g	mm	7,035	7,070	7,015	7,055	7,075	7,075	7,060
(bucket carry position)	at center of outside tire		mm				6,045			
Min. ground clearance		mm	475							
Full articulation angle			deg				37°		ic	
Operating weight	with ROPS CAB		kg	20,050	19,860	19,930	19,750	20,095	20,195	20,185
Static tipping load	straight		kg	14,910	15,165	15,095	15,330	14,495	14,085	14,345
	full turn		kg	13,010	13,230	13,165	13,375	12,645	12,290	12,515

The weight and load figure includes 23. 5 (L3) tubeless tire, ROPS cab, lubricant, coolant, full fuel tank and operator (75kg).

Bucket selection charts



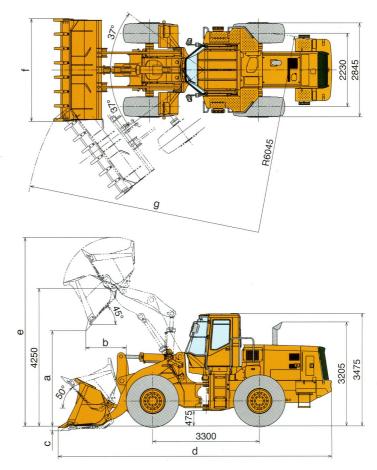
Material density

Approx. material weights per cubic meter

Basalt, granite, piled	1537 kg/m ³
Clay and gravel, dry	1601 kg/m ³
Earth, mud, wet	1729 kg/m ³
Granite, broken	1537 kg/m ³
Gravel	1761 kg/m³
Gypsum	2268 kg/m ³
Limestone, coarse, sized	1569 kg/m ³
Sand, dry	1681 kg/m³
Sandstone, quarried	1313 kg/m³
Stone or gravel. 3/4" size	1569 kg/m ³

Remarks

- * Materials and specifications are subject to change without notice and without any obligation on the part of the manufacturer.
- * This information, while believed to be completely reliable, is not to be taken as warranty for which we assume legal responsibility.
- * Dumping clearance and reach are measured from bucket edge in accordance with SAE J732C.
- * Color for model shown in this brochure is a standard Kawasaki yellow.
- * Counterweight(option) should not be used with tire ballast.
- * This specification sheet may contain attachments and optional equipment which are not available in your area. Please contact your local Kawasaki dealer for those items which your require.





STANDARD EQUIPMENT

*Standard specifications may vary. Please consult your Kawasaki dealer for more information.

Electrical

50 ampere generator Back up alarm

Brake and tail lights

Electric starter

Halogen headlights with high and low beams (2 front)
Halogen working lights (2 front and 2 rear)

Turn signals with four-way flasher

Gauges and indicators

Air cleaner warning lamp

Auto shift indicator lamp

Battery charge lamp

Brake pressure warning lamp

Engine coolant temperature gauge and warning

lamp

Engine oil pressure warning lamp

Fuel level gauge

High beam indicator lamp

Hour meter

Neutral indicator lamp

Parking brake indicator lamp

Speedometer

Torque convertor oil temperature gauge and

warning lamp

Transmission control warning lamp

Transmission declutch lamp

Transmission status monitor

Working light indicator lamp

Operator environment

Adjustable operator seat with suspension

Ashtray

Cup holder

Boom/bucket control dual levers

Electric dual horns

Down shift button

Telescopic and tilt steering wheel

Power train

Air cleaner, double elements dry type HINO J08C-TI diesel engine Full hydraulic enclosed wet multi-disc brakes Hydraulic engine radiator cooling fan Kawasaki auto shift transmission Kawasaki axles, torque proportioning differentials (front/rear) Kawasaki torque converter Low maintenance drive shafts Tires, 23.5 (L3) tubeless

Others

Bucket leveler
Drawbar hitch with pin
Handrails
Kickout device
Ladders, left and right
Loading linkage, sealed Z-bar type single
cylinder
Secondary brake

OPTIONAL ITEMS

Automatic reversible cooling fan

Cab (non ROPS/FOPS)

(left and right doors open, walk-through design)

Cab (ROPS/FOPS)

(left and right doors open, walk-through design)

Canopy (two pillar with plastic roof)

Canopy (with ROPS/FOPS)

CD player with radio (AM/FM stereo)

Emergency steering

Front and rear wide fenders

Full automatic air conditioner

High lift boom arm

Hydraulic circuit for quick coupler pins

Hydraulic three spool valve system

LED rear lamps

Limited slip differential

Mudflaps

Pre cleaner

Quick coupler

Radio-ready kit (12V convertor, antenna and wiring, stereo

speakers)

Ride control (speed sensitive automatic)

Seat belt

Several bucket and tire options are available

Transmission belly guard

Vandalism protection kit

Cab specifications

Cigarette lighter

Coat hook

Floor mat

Front wiper and washers

Lockable doors with sliding windows by

regulator handles (left and right)

Rearview mirrors (interior and exterior)

Rear wiper and washers (option)

Storage compartment

Sun visor

Tinted safety glass (tempered glass)

