

80 Z 55 WHEELLOADER

Direct-injection, turbocharged 149kW(200hp) engine Operating weight 20ton, Bucket capacity 2.6-3.6m³ 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.

SOPHISTICATED PERFORMANCE

JAPANESE ENGINE WITH MECHANICAL GOVERNOR

Japanese engines provide a high quality source of power. Time-proven, high quality mechanical engine governor minimizes maintenance requirements. Compared with electronic controlled high pressure fuel injection system, a wide range of fuel and engine oil can be used. The engine does not require any special diagnostic equipment or computer for service.

*For the range of fuel, please consult your local Kawasaki dealer.



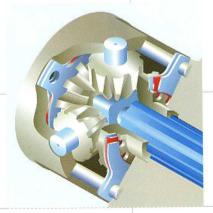
TPD

Standard Torque Proportioning Differentials (TPD) improve traction in slippery conditions.



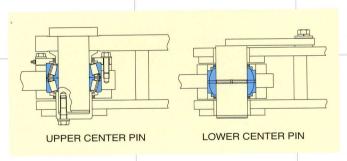
LSD (OPT)

For applications with extreme traction requirements, the optional Limited Slip Differential (LSD) provides additional traction capability.



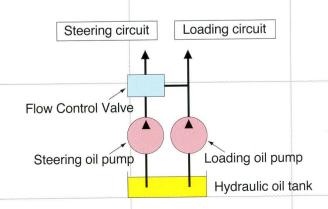
CENTER PIN

Kawasaki center pin design is rugged and durable, providing thousands of hours of trouble free operation. The spherical bearing mounted on the lower center pin area absorbs heavy stresses caused by digging.



LOAD SENSING HYDRAULIC SYSTEM FOR STEERING LINE

An energy efficient design of the hydraulic system provides for steering flow to supplement the main circuit once steering demand is met. This allows for full utilization of the pump capacity for efficient operation in all conditions.





WET DISC BRAKE

Outboard mounted wet disc service brake can minimize maintenance time since the brakes are accessible without removing the axle.



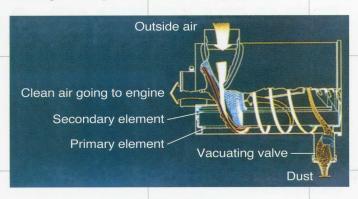
PARKING BRAKE

The parking brake is a spring-applied, oil pressure-released, drum type. Based on this proven design, parking brake maintenance and adjustment can be easily done.



DOUBLE-ELEMENT AIR CLEANER

The double-element air cleaner filters the outside air to supply clean air for the engine. Accumulated dust is automatically discharged through valves when the engine stops.



TRANSMISSION

Fewer parts and the simple structure of the counter shaft transmission minimizes maintenance time and cost.

Transmission control can be done by using simple, twist grip, single lever which helps an operator to focus on bucket operation.







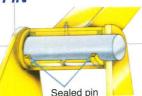
BEST OF BOTH WORLDS, PRODUCTIVE AND DEPENDABLE

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.



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.



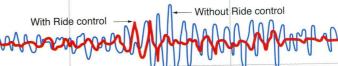
HYDRAULIC GEAR PUMP

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

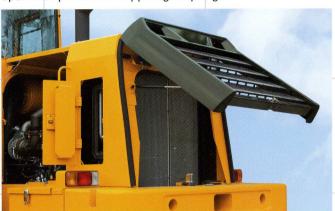


Maintenance is enhanced with the engine access panels that can be opened wide for better access.

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.

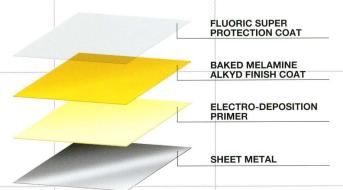


HALOGEN HEAD LAMPS

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



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 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.

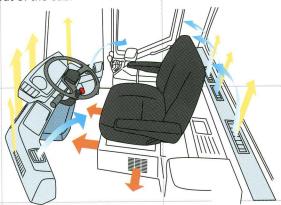


FULLY AUTOMATIC HEATER AND AIR CONDITIONER (OPT)

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, air pressure gauge, 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.



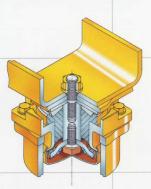
CUP HOLDERS

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 a	with turbocharged and air cooled intercooler					
Rated power	Gross - SAE J1995	165 kW (221 hp)/2,200 rpm					
	Net - ISO 9249						
	SAE J1349	149 kW (200 hp)/2,200 rpm					
	80/1269/EEC						
Maximum torque	Gross	860 N·m (88 kgf·m)/1,400 rpm					
	Net	821 N·m (84 kgf·m)/1,400 rpm					
Number of cylinders	6						
(bore × stroke)	114 mm × 130 mm						
Total displacement	7961 cm ³						
Cooling type	Hydraulic drive pusher type fan						
	Pressurized radiator						
Fuel injection pump	Bosch type						
Governor	All-speed mechanic	cal 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 88 Ah × 2						

Torque converter & Transmission

Torque converter	Make & model	Kawasaki			
		3-element, 1-stage, 1-phase			
	Stall torque ratio	2.99			
Transmission	Make & model	Kawasaki, Full	power shift		
		Countershaft type			
	Clutch type	Wet hydraulic,	multi disc		
Traveling speed		Forward	Reverse		
	1st	7.2 km/h	7.3 km/h		
	2nd	12.0 km/h	12.2 km/h		
	3rd	21.3 km/h	21.6 km/h		
	4th	36.2 km/h	36.7 km/h		
Reduction gear		Forward	Reverse		
ratio	1st	4.344	4.262		
	2nd	2.511	2.464		
	3rd	1.341	1.315		
	4th	0.691	0.678		

Axles & Final drives

Туре	4-wheel drive
Axle make & type	Kawasaki
	Full floating type
Differential gear	Spiral bevel gear, torque proportioning,
	single stage reduction gear ratio 3.90
Final reduction gear	Outboard mounted, Internal planetary gear
_	gear ratio 5.333
Rear axle oscillation angle	± 12°
Tire (standard)	23.5 (L3) Tubeless
Wheel rim	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

Type	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 45°			
Bucket dumping angle at fully raised				
Hydraulic cycle time	Lifting (at full load)	6.2 sec		
	Lowering (empty)	3.4 sec		
	Dumping	1.4 sec		
	Total cycle time	11.0 sec		

Hydraulic system

,		The State of the S
Oil pump	Steering	Gear type, 179 lit/min
	oil pump	6.9 Mpa (70 kgf/cm²) @2,200 rpm
	Main	Gear type, 80.4 lit/min,
	oil pump	6.9 Mpa (70 kgf/cm²) @2,200 rpm
	Pilot	Gear type, 71.7 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
_ift cylinder	Туре	Double acting piston
	Number,bore x stroke	2 x 150 mm bore x 788 mm stroke
Filt cylinder	Туре	Double acting piston
	Number,bore x stroke	1 × 180mm bore × 533 mm stroke
Steering	Туре	Double acting piston
cylinder	Number,bore x stroke	2 × 80mm bore × 405 mm stroke
Relief set	Control valve	20.6 Mpa (210 kgf/cm²)
oressure	Steering valve	20.6 Mpa (210 kgf/cm²)

Service refill

Fuel tank	290 lit
Engine lubricant (including oil pan)	20 lit
Engine cooling water	33 lit
T/M & T/C	45 lit
Axle front/rear	110 lit
Hydraulic oil tank	85 lit
Hydraulic system (including oil tank)	160 lit

Weight change

Option item		Operating	Operating Tipping load(kg)		Overall width(mm)	Vertical dimensions	Overall length(mm)
Option		weight(kg)	Straight	Full turn	(outside tire) (mm)		O vorum rerigin ()
Canony	(instead of ROPS cab)	-450	-435	-380	_	-65	_
	b (instead of ROPS cab)	-230	-220	-190	_	_	_
	al ROPS cab	-520	-505	-435	_	-265	=
Tterriov	20.5R25(L3)	-340	-240	-215	-50	-65	+55
	23.5R25(L3)	±0	±0	±0	±0	±0	±0
Tires	23.5R25(L4)	+430	-310	+270	+30	±0	±0
11163	23.5-25-16PR(L3)	±0	±0	±0	±0	±0	±0
	20.0-20 TOT TI(LO)						

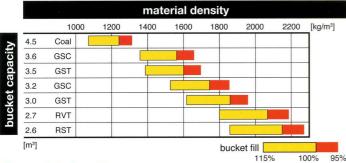


Bucket

		- 1				5	Standard boo	m		
				-	Genera	l purpose		Rock Straight-edge	Rock V-edge	Coal Straight-edg
				Bolt-on edges	Teeth	Bolt-on edges	Teeth	Teeth	Teeth	Bolt-on edge
				GSC	GST	GSC	GST	RST	RVT	
								0000000		
Bucket capacity	heaped		m ³	3.2	3.0	3.6	3.5	2.6	2.7	4.5
	struck		m³	2.7	2.6	3.1	3.0	2.2	2.3	4.0
Max. dumping clearance		а	mm	2,960	2,870	2,875	2,780	2,860	2,765	2,680
Max. dumping reach		b	mm	1,130	1,190	1,215	1,275	1,195	1,300	1,415
Max. hinge pin height			mm				4,095			
Digging depth (with bucket le	evel)	С	mm	55	70	55	70	75	75	55
Breakout force			kN	161	174	146	157	174	148	135
Bucket tilt-back angle	at carry position		deg				50°			
Overall length		d	mm	8,105	8,215	8,230	8,345	8,225	8,365	8,505
Overall height	up to cab top		mm	3,440						
	bucket full raise	е	mm	5,605	5,605	5,660	5,660	5,360	5,360	5,930
Overall width	outside tire		mm	2,680						
	outside bucket	f	mm	2,800	2,820	2,800	2,820	2,820	2,820	2,820
Tread			mm	2,060						
Wheel base			mm				3,200			
Min. turning radius	at outside bucket	g	mm	6,715	6,740	6,760	6,790	6,765	6,765	6,840
(bucket carry position)	at center of outside tire		mm				5,810			
Min. ground clearance			mm				465			
Full articulation angle			deg				37°			
Operating weight	with ROPS CAB		kg	17,730	17,615	17,810	17,700	17,785	17,845	17,850
Static tipping load	straight		kg	14,635	14,880	14,235	14,705	14,580	14,445	13,925
	full turn		kg	12,765	12,980	12,420	12,830	12,720	12,600	12,150

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

Bucket selection charts



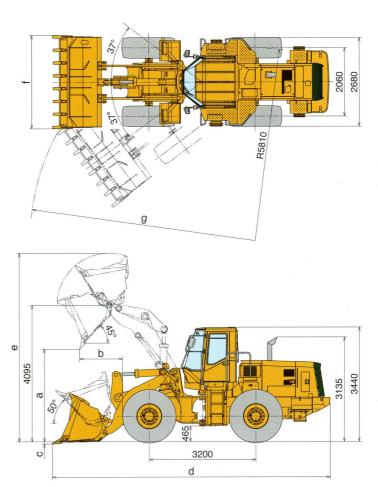
Material density

Approx. material weights per cubic meter

Pacalt granita pilod	1537 kg/m ³			
Basalt, granite, piled				
Clay and gravel, dry	1601 kg/m ³			
Earth, mud, wet	1729 kg/m ³			
Granite, broken	1537 kg/m ³			
Gravel	1761 kg/m ³			
Gypsum	2268 kg/m ³			
Limestone, coarse, sized	1569 kg/m ³			
Sand, dry	1681 kg/m³			
Sandstone, quarried	1313 kg/m ³			
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

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)

