

Engine Power

71 kW (95hp)

Operating Weight

7 ton

Bucket Capacity

1.3-1.6 m³

WHEEL LOADER

50ZV



Kawasaki

Performance that never quits...

Wheel loaders that deliver premium power...

Backed by more than 45 years of innovative experience...

Durability and reliability you can count on...



As the oldest on-going manufacturer of rubber tired wheel loaders in the world, Kawasaki specializes in the design and manufacture of articulated wheel loaders.

You get a machine with a 45-year heritage of successful innovations.

The power and productivity that Kawasaki wheel loaders bring to the job is a result of that experience.

Kawasaki loaders are designed with durability to provide years of reliable service.

Backed by a dealer network of heavy equipment experts and dedicated support staff in the Kawasaki parts and service organization, your investment in a Kawasaki loader is an excellent choice that will pay dividends for years to come.

POWER AND PERFORMANCE PROVIDE UNMATCHED PRODUCTIVITY

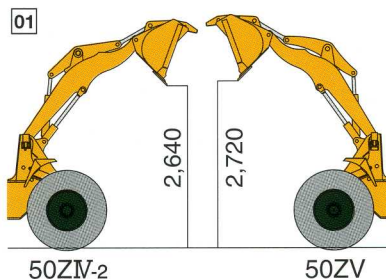


INCREASED POWER +5kW

With higher engine power the machines are now more productive.

INCREASED DUMPING CLEARANCE 01

Dumping clearance has increased by 80mm for easier loading.



INCREASED BREAKOUT FORCE

Breakout force has increased by 4.8% for better digging ability.

INCREASED TIPPING LOAD

Tipping load has increased by 3.2% for better stability.

INCREASED BRAKING POWER

Improved braking power ensures safer operation.

WET DISC SERVICE BRAKE 02

Sealed wet disc brakes provide high capacity braking and protection from contamination. The dual circuit brake system separates the front and rear axles for added safety.



TPD 03

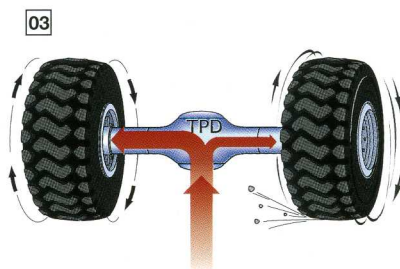
Standard Torque Proportioning Differentials (TPD) improve traction in slippery conditions.

LSD (OPT) 04

For applications with extreme traction requirements, the Limited Slip Differential option provides additional traction capability.

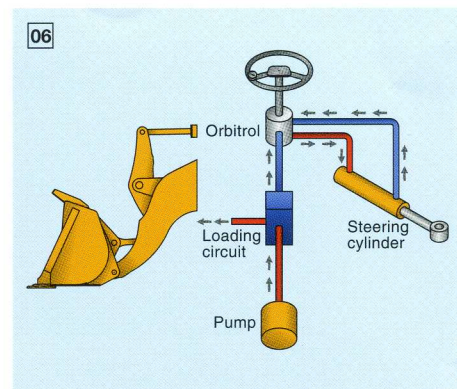
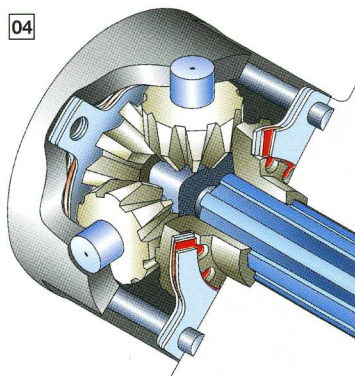
Z BAR-LINK AND CENTER PIN ARTICULATION 05

As a pioneer of the Z BAR-linkage, Kawasaki loaders provide outstanding breakout force from a simple, reliable linkage. Kawasaki center pin design is rugged and durable, providing thousands of hours of trouble free operation.



LOAD SENSING HYDRAULICS FOR THE STEERING SYSTEM 06

An energy efficient design of the hydraulic system allows for the steering pump flow to be merged with the loader circuit when not in use. This means full utilization of pump capacity for efficient operation in all conditions.



DURABLE AND DEPENDABLE

LIFT ARMS/BUCKETS 01

With the strongest lift arms and linkage in the industry, Kawasaki loaders perform well in a wide variety of applications.

High breakout forces and excellent bucket rollback mean bigger loads and better load retention.

Buckets are designed for easy loading and are equipped with bolt-on heel plates for easy serviceability.

A bucket leveler is standard.

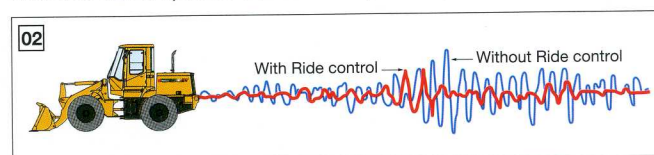


BUFFER RINGS IN HYDRAULIC CYLINDERS

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

RIDE CONTROL FEATURE (OPT) 02

Ride Control offers a smooth ride to improve load retention and increase travel speeds & productivity.



EASY ACCESS SIMPLIFIES SERVICING



EASY ACCESS SIMPLIFIES SERVICING 03

Maintenance is enhanced with the "gull-wing" engine side covers that can be fully opened for better access.

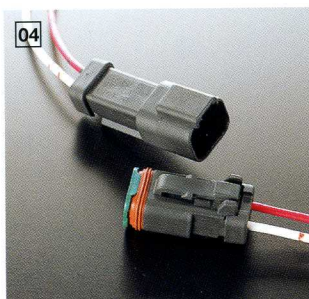
Filters are conveniently located for easy changing and grease fittings are grouped to reduce maintenance time and ensure proper lubrication.

HALOGEN HEAD LAMPS (OPT)

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

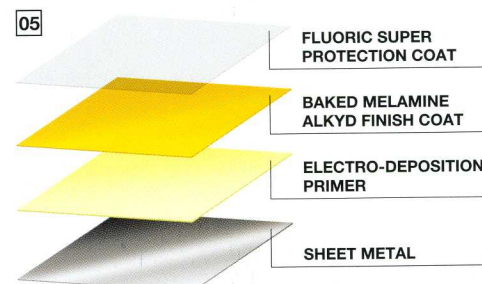
DT CONNECTORS 04

Sealed Deutsch DT electrical connectors are used throughout the system to reduce corrosion and provide a positive electrical connection.



HIGH QUALITY FINISH PAINT FOR SHEET METAL PARTS 05

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



SPECIAL PACKAGE

ROPS/FOPS CAB (OPT)

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

ROPS/FOPS cab with an operator's compartment that offers unmatched comfort and provides increased leg room.

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

The front windshield mounted in rubber gaskets makes windshield replacement fast and easy.

Viscous mounting of the cab reduces vibration and noise.

TILT AND TELESCOPIC STEERING (OPT)

The tilt/telescopic steering column adjusts to suit a variety of operator sizes and offers greater comfort and efficiency.

HEATER AND AIR CONDITIONER (OPT)

The air conditioner/heater keeps 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.



ELECTRICAL SINGLE SHIFT TRANSMISSION CONTROL (OPT) 06

Single, twist grip transmission shift lever is conveniently mounted on the steering column.



DOWNSHIFT SWITCH (OPT) 07

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



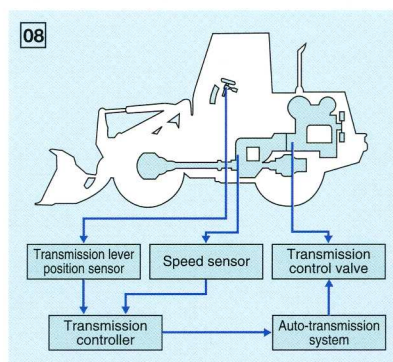
MULTI ADJUSTABLE FUNCTION OPERATOR'S SEAT

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

FULLY AUTOMATIC KAWASAKI TRANSMISSION (OPT) 08

The well proven Kawasaki transmissions are now electronically controlled and feature a kick down function.

RADIO (OPT)



ONE-TOUCH OPEN-TOP RADIATOR GRILLE (OPT) 09

To facilitate cleaning the radiator, the radiator grille is fully-opened at the top, particularly useful on sites where clogging occurs and immediate cleaning is needed.



50ZV OPERATING SPECIFICATIONS

Engine

Make & model	CUMMINS "B4.5T" diesel engine
Type	4-cycle, water-cooled, direct injection, with turbocharger
Rated power	Gross 74 kW(99 hp)/2,100 rpm Net 71 kW(95 hp)/2,100 rpm
Maximum torque	Gross 409 N·m(41.7 kgf·m)/1,500 rpm
Number of cylinders	4
(bore X stroke)	102 mm X 138 mm
Total displacement	4.50 lit
Cooling type	Pusher type fan Pressurized radiator
Fuel injection pump	Delphy type
Governor	All-speed mechanical type
Air cleaner	Dry type(Double element)
Generator	AC 24V 1.2 kW(50 ampere)
Starter motor	DC 24V 3.7 kW(5 hp)
Batteries	DC 12V 65 Ah X 2

Transmission & Torque converter

Transmission make & type	Kawasaki, Full power shift		
Torque converter make & type	Kawasaki 3-element, one-stage, one-phase		
Traveling speed		Forward	Reverse
	1st	8.5 km/h	8.5 km/h
	2nd	16.0 km/h	16.0 km/h
	3rd	34.0 km/h	34.0 km/h
	Note	With 16.9(L2)	

Axles & Final Drives

Type	4-wheel drive
Axle make & type	Kawasaki Semi-floating type
Differential gear	Spiral bevel gear, torque proportioning, single stage reduction
Final reduction gear	Inboard mounted, Internal planetary gear
Rear axle oscillation angle	±12°
Tire(standard)	16.9(L2) Tubeless

Brake system

Service brake	4-wheel wet-disc Controlled by fully hydraulic system Dual circuits
Parking brake	Mechanical type located on front driveline

Steering system

Type	Articulated frame steering, hydraulic power steering unit, direct operated type
Steering valve	Orbitroll
Steering angle	40° to each side

Loading system

Type	Front end loading, Z bar linkage system	
Hydraulic cycle time	Lifting(at full load)	5.4 sec
	Lowering(empty)	2.8 sec
	Dumping	1.0 sec
	Total cycle time	9.2 sec

Hydraulic system

Oil pump	Loading & Steering pump	Gear type, 100 lit/min 6.9 MPa(70 kg/cm²) @ 2,100 rpm
Lift cylinder	type	Double acting piston
	number,bore x stroke	2 X 100 mm bore X 593 mm stroke
Tilt cylinder	type	Double acting piston
	number,bore x stroke	1 X 100 mm bore X 462 mm stroke
Steering cylinder	type	Double acting piston
	number,bore x stroke	2 X 60 mm bore X 340 mm stroke
Relief set pressure	Control valve	20.6 MPa(210 kg/cm²)
	Steering valve	17.2 MPa(175 kg/cm²)







Service refill

Fuel tank	120 lit
Engine lubricant(including oil pan)	10 lit
Engine cooling water	42 lit
T/M & T/C	20 lit
Axle front/rear	36 lit
Brake equipment	2 lit
Hydraulic system(including oil tank)	75 lit

Weight change

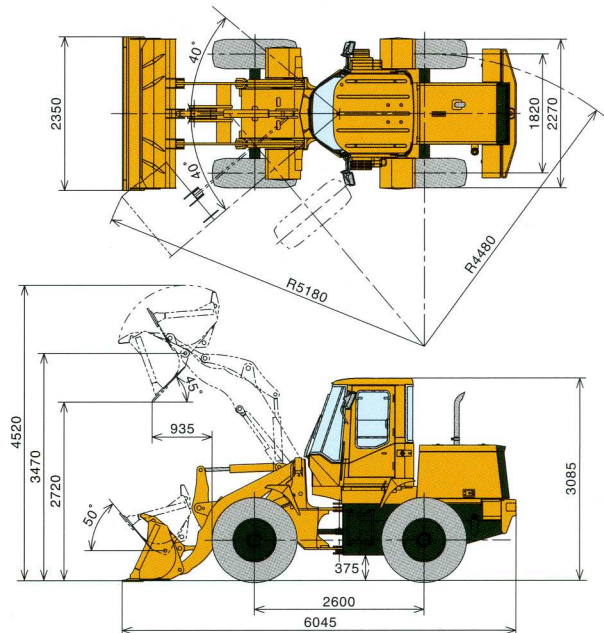
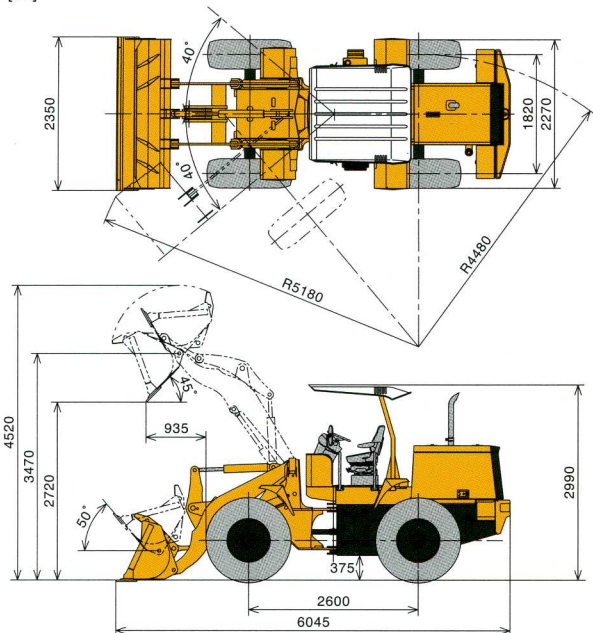
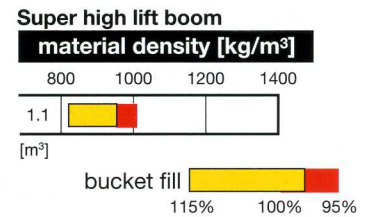
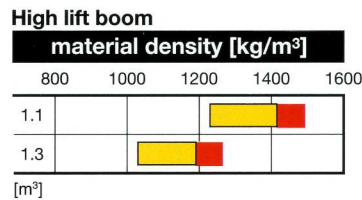
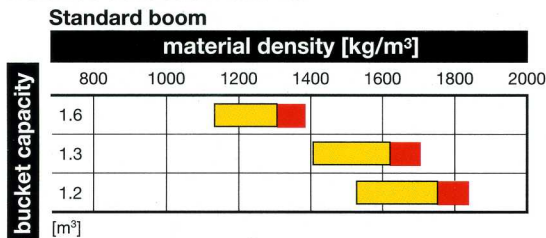
Option item	Operating weight(kg)	Tipping load(kg)		Overall width(mm) (outside tire)	Overall height(mm)	Overall length(mm)
		Straight	Full turn			
ROPS/FOPS cab	+470	+360	+320	-	+95	-
Open ROPS/FOPS canopy	+200	+160	+130	-	+95	-
Enclosed steel cab	+300	+250	+200	-	+95	-
Removal open canopy	-50	-40	-40	-	-115	-
Tires	15.5-25-8PR (L2)	+80	+60	+50	±0	±0
	15.5-25-12PR (L2)	+80	+60	+50	±0	±0
	16.9-24-10PR (L2)	±0	±0	±0	±0	±0
Air conditioner	+70	+60	+50	-	-	-
Additional counter weight	+310	+690	+590	-	-	+50

Bucket

			Standard boom			High lift boom		Super high lift boom
			General purpose		Light material	Light material	Loose material	Light material
			Bolt-on edges	Teeth	Bolt-on edges	Bolt-on edges	Bolt-on edges	Bolt-on edges
			GSC	GST	LSC	GSC	HSC	HSC
								
Bucket capacity	heaped	m³	1.3	1.2	1.6	1.3	1.1	1.1
	struck	m³	1.1	1.0	1.4	1.1	0.9	0.9
Max. dumping clearance		mm	2,720	2,635	2,655	3,020	3,085	3,685
Max. dumping reach		mm	935	990	1,000	945	880	905
Max. hinge pin height		mm	3,470			3,770		4,370
Digging depth (with bucket level)		mm	75	90	75	75	75	75
Breakout force		kN	63.7	70.6	56.8	63.7	71.5	71.5
Bucket tilt-back angle		deg	50°			49°		48°
Overall length		mm	6,045	6,155	6,140	6,335	6,245	6,845
Overall height	up to cab top	mm	2,990					
	bucket full raise	mm	4,520	4,520	4,620	4,820	4,700	5,335
Overall width	outside tire	mm	2,270					
	outside bucket	mm	2,350	2,350	2,450	2,350	2,350	2,350
Tread		mm	1,820					
Wheel base		mm	2,600					
Min. turning radius	at outside bucket	mm	5,180	5,220	5,250	5,295	5,270	5,325
	at center of outside tire	mm	4,480					
Min. ground		mm	375					
Full articulation angle		deg	40°					
Operating weight	with canopy	kg	6,710	6,680	6,760	6,790	6,760	6,900
Static tipping load	straight	kg	5,200	5,220	5,120	4,400	4,430	3,370
	full turn	kg	4,460	4,480	4,380	3,660	3,690	2,630

The weight and load figure includes 16.9 (L2) tubeless tire, canopy, lubricant, coolant, full fuel tank and operator.

Bucket selection charts



Electrical

50 ampere generator
Batteries; 12V-65AH 2 units
Electric starter
Lights
Headlight 2 units
Working light 2 units (rear)
Stop/Tail light 2 units
Backup light 2 units
Turn signal light 2 units

Gauges and indicators

Air cleaner warning lamp
Battery charge lamp
Brake oil warning lamp
Engine coolant temperature gauge and warning lamp
Engine oil pressure warning lamp
Fuel level gauge

High beam indicator lamp
Hour meter
Parking brake indicator lamp
Preheat indicator lamp
Speedometer
Torque convertor oil temperature warning lamp
Transmission declutch lamp
Turn signal indicator lamp
Working light indicator lamp

Operator environment

Adjustable operator seat with suspension
Boom/bucket control single lever
Electric single horn
Floor mat
Open canopy
Rearview mirrors (exterior)
Transmission declutch selector switch

Power train

Air cleaner (single element dry type)
Cummins B4.5T diesel engine
Full hydraulic enclosed wet multi-disc brakes
Kawasaki axles, torque proportioning differentials (front/rear)
Kawasaki torque converter
Tires, 16.9 (L2) tubeless
3mm pitch plate fin radiator

Others

Drawbar hitch with pin
Handrails
Ladders, left and right
Loading linkage, sealed Z-bar type

OPTIONAL ITEMS

Additional counter weight
Anti-corrosion specifications
Ashtray
Bucket leveler
Double elements dry type air cleaner
Kawasaki auto shift transmission
Auto shift indicator lamp
Down shift button
Neutral indicator lamp
Transmission control warning lamp
Kickout device
Back up alarm
Emergency steering
Front and rear wide fenders
Halogen headlights with high and low beams (2 front)
High lift boom arm / Super high lift boom arm

Hydraulic circuit for quick coupler pins
Hydraulic three spool valve system
Limited slip differential
Fork handling package
Mudflaps
Oil cooler (Hydraulic line)
Open ROPS/FOPS canopy
Pre cleaner
Quick coupler
Ride control (speed sensitive automatic)
ROPS/FOPS cab / Enclose steel cab
Air conditioner
Cassette player with radio (AM/FM stereo)
Cigarette lighter
Cup holder
Front and rear wiper and washers
Heater

Halogen working light 2 units (front)
Radio (AM/FM stereo)
Rearview mirrors (interior)
Seat belt
Storage compartment
Sun visor
Tinted safety glass
Laminated glass (front)
Working light 2 units (front)
Several bucket and tire options are available
Double lever hydraulic control
Telescopic and tilt steering wheel
Transmission belly guard
Vandalism protection kit
4mm pitch plate fin radiator



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CONSTRUCTION MACHINERY DIVISION

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Please contact your local Kawasaki dealer for those items which you require.

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