

193HP | 4.2 – 4.7 yd³ BUCKET CAPACITY

BUCKET CAPACITY 7277



ONE FOCUS. COMPLETE SOLUTIONS.

INTRODUCING A NEW E.P.I.C. GENERATION



80Z7 FEATURES:

- Fuel efficient Cummins engine
- Powerful
- Total redesign, stylish
- Comfortable cab
- Great visibility
- Easy read LCD display
- Smooth shifting
- Quiet

EFFICIENT. POWERFUL. INTELLIGENT. COMFORTABLE.

Kawasaki pioneered the Z-Link design to provide unmatched utility, high breakout force and efficiency in its loaders. The Z7 generation implements brand-new patented technology, industry exclusive innovation, and input from owners and operators all over the world. We've engineered the Z7 series from the ground up!

EFFICIENT

Quick Cycle functions and PowerTrain Efficiencies work together through the IntelliTech Operating System to improve operating efficiency and reduce operating costs.

POWERFUL

Custom Operating Power Modes, made available through the IntelliTech Operating System, maximize a High Engine Power Rating to provide power on demand.

INTELLIGENT

The Kawasaki IntelliTech Operating System uses logic and intelligence to adjust the operating characteristics of the loader. Our intuitive system captures every aspect of working conditions and operating demands to adjust the powertrain and hydraulics for best application requirements. All of the IntelliTech features are designed to maximize performance.

COMFORTABLE

The new Z7 operator compartment features a low-profile dash, full-length glass doors, panoramic front window, standard rearview camera and well-organized storage areas—plus much more. We have total operator comfort in mind!



DEFINING A NEW STANDARD

Kawasaki defines a new standard in production class wheel loaders with the introduction of the 80Z7—a model that reflects the advanced engineering required to improve operating efficiencies while lowering operating costs through a highly intuitive, patented technology, the IntelliTech System.

IntelliTech is a family of technological innovations by Kawasaki to enhance the performance of the Z7 loader series. It is a comprehensive package of features that affects all phases of the wheel loader application.

These features use logic or intelligence to adjust the operating characteristics of the machine, sensing the working conditions and adjusting the powertrain and hydraulics to best match application or environmental requirements. Many of the IntelliTech operations are automatic, while others allow the operator to select functions appropriate for the application or work environment.

- 24-Hour Parts Service
- In House Rebuild Center
- Flexible Warranty Programs
- Custom Dealer Service Programs





KCMA provides a totally focused approach to supporting your business. From carefully designed programs and services, to engineered special applications options, the 80Z7 wheel loader is ready to tackle the most demanding applications and environments.

Watch it in Action



Courtesy of Machine. Market

EFFICIENT.

Efficiency is getting the job done with the least amount of waste. The Z7s are very efficient loaders. The hydraulic system is designed for maximum performance and efficiency. The systems and controls allow for efficient operation. And servicing is efficient and reduces operating costs even further.

EFFICIENT HYDRAULICS

- Industry exclusive, open center system for better feel and response
- Fuel efficient, load sensing, piston pump hydraulics
- Excavator style system, proven performance
- Efficient, proven Z-linkage for excellent digging performance

EFFICIENT OPERATION

- Down Shift Switch allows for quick downshifting to meet operating conditions
- Shift Hold Button allows for holding in range to meet operating conditions
- AutoMode provides for automatic 1st–5th, 2nd–5th or manual for optimal operation
- Normal and Power modes match the full range of demand
- Quick Power button allows for momentary high power demand

EFFICIENT SERVICING

- Extended lube intervals from patented HN bushings—up to 500 hours
- Extended hydraulic oil change interval—4000 hours when using KCM SuperEX46 fluid
- Extended Engine Oil Change Interval—500 hours when using required low ash, CJ-4 oil
- Accessible filters, ground level fueling, tank sight gauges, grouped grease fittings



POWERFUL.

Power and productivity are what Kawasaki loaders are famous for. The Z7 has moved to another level in this area. Strong, responsive engines provide the power to get the job done. Powerful hydraulics make the work easy and the productivity high.

POWERFUL ENGINE

- Cummins QSB6.7 Diesel with a big 193 net horsepower provides excellent power
- Tier 4i Certified, clean
- Reliable
- Fuel efficient
- Responsive

POWERFUL HYDRAULICS

- Reliable piston pump
- Excellent breakout force
- Fast, responsive
- Increased steering power

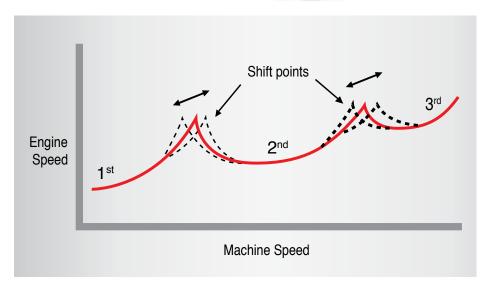






INTELLITECH SYSTEM

- Patented IntelliDig system balances rimpull force and hydraulic digging force to match conditions
- SimulLoad system allows for simultaneous actuation of lift and tilt while digging
- QuickCycle system speeds V-loading cycles
- FlexShift varies the shift points of the transmission to match working conditions



INTELLIGENT.



INTELLITECH SYSTEM

- Efficient acceleration prevents wasted energy from over-accelerating and provides added power for fast acceleration

declutch function for level or slope



- Automatic Reversible Cooling Fan is controlled by multiple inputs for optimum operation
- Aerodynamic fan blade design for quiet operation
- Auto Idle Shut Down senses excessive idling and shuts down engine to reduce fuel consumption and improve DPF performance



COMFORTABLE.

A comfortable operator is a productive operator. In the Kawasaki Z7s the operator comfort is outstanding. Quiet, convenient, clean, and designed for optimum operator comfort, safety, and productivity.

COMFORTABLE CAB

- Large, quiet, well-sealed ROPS cab with great visibility in all directions
- Deluxe, ergonomic air suspension seat can be equipped with heated cushions
- Standard rear, back-up camera supplements the dual interior and exterior mirrors
- Tilt/Telescoping steering column with pop-up pedal for convenient entry and exit
- High visibility front dash design
- Excellent ventilation from sliding side windows and full-length glass, latchback doors
- Adjustable side console to fit operator preference
- Standard AM/FM/WB with AUX outlet and dual speakers

- Thermostatically controlled HVAC system for year-round climate control
- Convenient storage includes thermal storage box, cup holders, coat hook and large storage shelf











COMFORTABLE.

Improved Controllability. The full color LCD multi function instrument panel clearly provides information derived from IntelliTech, including machine operation and settings, plus HVAC controls, and fluid pressures. The monitor is very easy to see, as well as comprehend—the operator has several languages to choose from!

CONVENIENT CONTROLS

- Multi-function instrument panel provides information and allows for control, adjustments and alerts
- Fingertip, Pilot-assisted hydraulic controls can be single or dual lever
- The Pilot controls, available in single or dual lever.
- or dual lever, also contain fingertip controls for the DSS (Downshift Switch), Quick Power Button, and Horn.



- An alternate
 Shift Hold Button
 is conveniently
 located in the
 hydraulic control console, along with
 the elevated forward/reverse switch.
- The adjustable arm console contains rocker switches for convenient selection of the "Power Mode," "1st Gear Activation," "Variable Declutch," "Manual DPF Regen," "Control Lever Lock" and optional "Ride Control."
- Adjustable Side console to fit operator preference
- 12V acc. outlet and 24V cigarette lighter, dual interior lights





SERVICE SIMPLIFIED

EASY ACCESS

- Angled ladders
- Wide-access engine compartment doors, gull wing
- Battery disconnect
- Easy access battery box
- Grouped lube points
- Ground level fluid check points
- Gound-level fueling
- Fuse/relay panel in cab
- Autolube, optional

EXTENDED SERVICE INTERVALS

- HN Bushings impregnated with high viscosity oil extend lubrication period to 500 hours on loader linkage pins
- Extended hydraulic oil change interval
- Extended engine oil change interval
- Automatic reversible cooling fan, standard

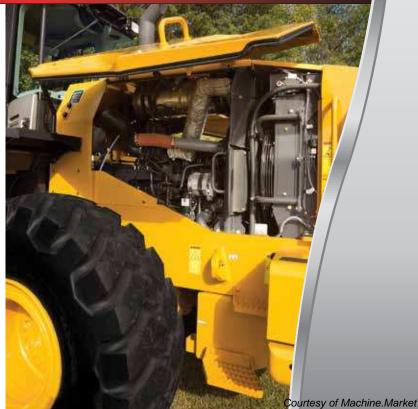












BUCKET DATA



				High Lift Boom			
			Genera	al Purpose	Material Handling	General Purpose	
6	0		Straight Edge With Bolt-on Cutting Edge	Straight Edge With Teeth & Segments	Straight Edge With Bolt-on Cutting Edge	Straight Edge With Bolt-on Cutting Edge	
Capacity -	Heaped	yd ³ (m ³)	4.2 (3.2)	4.2 (3.2)	4.7 (3.6)	4.2 (3.2)	
	Struck	yd³ (m³)	3.5 (2.7)	3.5 (2.7)	4.0 (3.1)	3.5 (2.7)	
Maximum dump	ing clearance	ft-in (mm)	9'5 ³ / ₄ " (2,890)	9'2 ⁵ / ₈ " (2,810)	9'4 ⁵ / ₈ " (2,860)	10'9 ⁷ /8" (3,300)	
Dumping reach edge or tooth)	(to front of bucket	ft-in (mm)	3'8 ¹ /2" (1,130)	4' (1,220)	3'10 ¹ /8" (1,170)	4'2 ³ / ₄ " (1,290)	
Max. hinge pin h	neight	ft-in (mm)	13'5" (4,090)	13'5" (4,090)	13'5" (4,090)	14'9¹/8" (4,500)	
Digging depth (v	vith bucket level)	ft-in (mm)	4" (100)	4" (100)	4" (100)	7 ¹ / ₈ " (180)	
Breakout force		lb (kN)	34,170 (152)	34,170 (152)	32,820 (146)	31,250 (139)	
Bucket tilt-back	at ground level	degree	43°	43°	43°	44°	
angle	at carry position	degree	50°	50°	50°	50°	
Overall	Length	ft-in (mm)	27' (8,230)	27'4 ³ / ₄ " (8,350)	27'2 ³ / ₈ " (8,290)	28'8 ¹ / ₈ " (8,740)	
	Height (to top of Cab/ROPS)	ft-in (mm)	11' ⁷ /8" (3,375)	11 ^{'7} /8" (3,375)	11' ⁷ /8" (3,375)	11' ⁷ /8" (3,375)	
	Height (bucket fully raised)	ft-in (mm)	17'10¹/8" (5,440)	17'10 ¹ /8" (5,440)	18 ¹ 1/8" (5,510)	19'2 ³ / ₈ " (5,850)	
	Width (outside tire)	ft-in (mm)	9'1 ⁵ / ₈ " (2,785)				
	Width (outside bucket)	ft-in (mm)	9'6 ¹ / ₂ " (2,910)				
Tread		ft-in (mm)	7'1" (2,160)	7'1" (2,160)	7'1" (2,160)	7'1" (2,160)	
Wheel base		ft-in (mm)	10'9 ⁷ / ₈ " (3,300)				
Clearance	at outside of bucket	ft-in (mm)	45'8" (13,920)	45'10 ³ /8" (13,980)	45'9 ⁵ /8" (13,960)	46'11 ³ / ₄ " (14,320)	
circle (bucket carry position)	at outside tire	ft-in (mm)	41'6" (12,650)	41'6" (12,650)	41'6" (12,650)	41'6" (12,650)	
		ft-in (mm)	1'5 ³ /4" (450)	1'5 ³ /4" (450)	1'5 ³ /4" (450)	1'5 ³ / ₄ " (450)	
Full articulation angle de		degree	37°	37°	37°	37°	
Operating weight (with ROPS cab)		lb (kg)	38,625 (17,520)	38,690 (17,550)	38,800 (17,600)	39,070 (17,720)	
Static tipping oad (with	Straight	lb (kg)	32,410 (14,700)	32,300 (14,650)	32,140 (14,580)	25,795 (11,700)	
ROPS cab)	Full turn	lb (kg)	28,680 (13,010)	28,590 (12,970)	28,440 (12,900)	22,730 (10,310)	

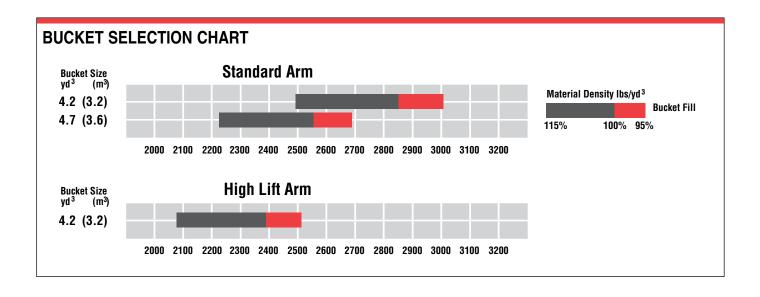
The weight and load figure includes optional counterweight, enclosed ROPS Cab, air conditioner, 23.5-25-16PR (L-3) tires, full fuel tank and operator.

Materials and specifications are subject to change without notice and without obligation on the part of the manufacturer. The specifications supplied, while believed to be completely reliable, are not to be taken as warranty for which we assume legal responsibility.

OPERATING SPECIFICATIONS

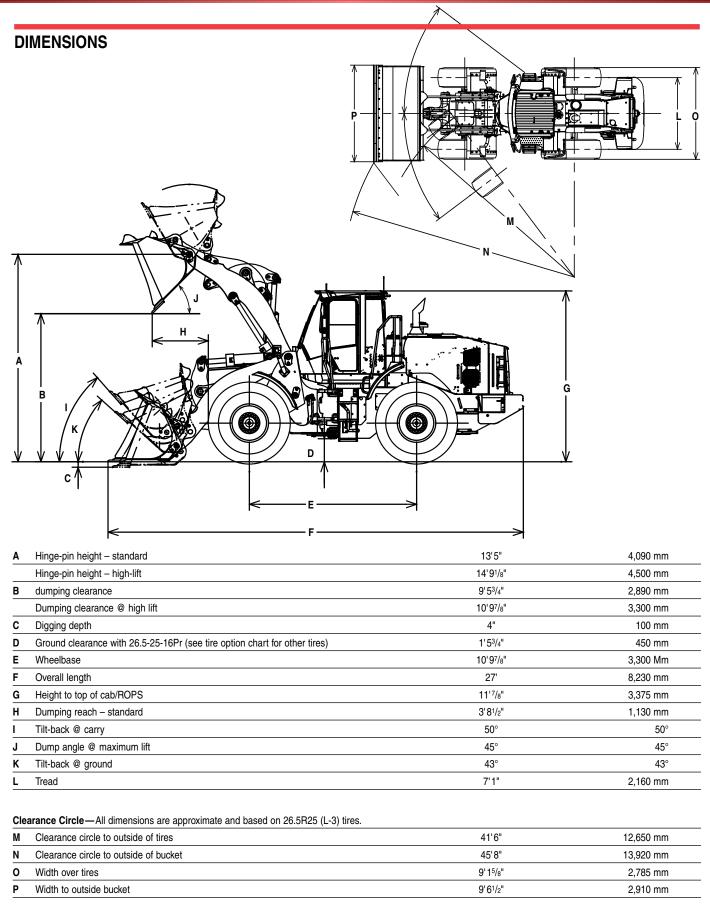


WEIGHTS AND DIMENSIONS								
		Operating	Tipping Load			Overall Width	Overall	Overall
		Weight	Straight	Full Turn		(Outside Tire)	Height	Length
Remove ROPS cab (for transport only)	lb (kg)	-1,320 (-600)	-1,010 (-460)	-900 (-410)	in (mm)		-5 ¹ / ₂ (-140)	
Remove optional counterweight	lb (kg)	-790 (-360)	-1,590 (-720)	-1,430 (-650)	in (mm)			
Tires: 23.5R25 (L-3)	lb (kg)	+200 (+90)	+150 (+70)	+130 (+60)	in (mm)	±0	<u>±</u> 0	±0
23.5R25 (L-4)	lb (kg)	+790 (+360)	+600 (+270)	+540 (+245)	in (mm)	±0	±0	±0
23.5R25 (L-5)	lb (kg)	+2,140 (+970)	+1,610 (+730)	+1,460 (+660)	in (mm)	±0	±0	±0
23.5-25-16PR (L-4)	lb (kg)	+970 (+440)	+730 (+330)	+660 (+300)	in (mm)			
23.5-25-16PR (L-5)	lb (kg)	+2,030 (+920)	+1,540 (+700)	+1,390 (+630)	in (mm)			



OPERATING SPECIFICATIONS





OPERATING SPECIFICATIONS



ENGINE (EPA Tier 4 Interim/EU Stage IIIB certified)			
Gross Power (SAE J1995)	200 HP/2,200 RPM (149 kW/2200RPM)		
Net Power ISO 9249	193 HP/2,200 RPM (145 kW/2200RPM)		
Make/Model	CUMMINS QSB6.7 diesel engine		
Туре	4-cycle, water-cooled, direct injection with turbocharger and air cooled intercooler		
Fuel type	#2 Diesel (Requires ultra-low sulfur fuel.)		
Fuel injection pump	Common rail type fuel injection		
Governor	All speed electrical type		
Cooling module type	Hydraulic-driven, suction-type fan, pressurized radiator		
Number of cylinders	6		
Bore and stroke	4.213" x 4.882" (107mm x 124mm)		
Total displacement	408.2 in ³ (6.69 liters)		
Alternator	AC24V - 1.56 kW (65 amp)		
Air cleaner	Dry type (double element)		
Starter motor	DC 24V 7.8 kW (10.5 HP)		
Battery	12V – 108AH (1,000 CCA), 2 units		

TORQUE CONVERTER AND TRANSMISSION			
Torque converter	3 elements, single-stage, 1-phase		
Transmission	Countershaft type, Full power shift		
Speeds: Forward	1st: 3.9 MPH (6.2 km/hr) 2nd: 6.6 MPH (10.6 km/hr) 3rd: 9.9 MPH (16.0 km/hr) 4th: 14.8 MPH (23.8 km/hr) 5th: 22.4 MPH (36.0km/hr)		
Speeds: Reverse	1st: 4.0 MPH (6.5 km/hr) 2nd: 6.9 MPH (11.1 km/hr) 3rd: 15.5 MPH (24.9 km/hr)		

SYSTEMS REFILL CAPACITY				
LOCATION	GALLONS	LITERS		
Fuel tank (diesel fuel)	67.4	255		
Engine lubricant (including oil pan)	6.6	25		
Engine coolant	7.4	28		
T/M & T/C	7.1	27		
Axle (front/rear)	8.5/8.5	32/32		
Hydraulic oil tank	30.1	114		
Hydraulic system (including hydraulic tank)	47.6	180		

HYDRAULIC AND STEERING SYSTEM				
Articulated frame steering				
Hydraulic power steering unit, pilot operated type				
Two (2) double-acting piston type: 5.118" x 34.645" (130mm x 880mm)				
One (1) double-acting piston type: 6.496" x 20.078" (165mm x 510mm)				
ype: 2mm)				
M/710 PSI @ @ 2200 RPM)				
@ 2200 RPM RPM)				
m²)				
m²)				
/stem				
5.9 sec.				
3.3 sec.				
1.6 sec.				
10.8 sec.				

Measured in accordance with SAE J732C

AXLE SYSTEM		
Drive system	4-wheel drive	
Front and rear axle	Semi-floating type	
Tires	23.5-25-16PR (L-3) (L-4) (L-5)	
Tires	23.5R25 (L-3) (L-4) (L-5)	
Reduction and differential gear	Spiral bevel gear, limited slip, single stage reduction	
Final reduction gear	Inboard mounted, internal planetary gear	
Oscillation angle	±12°	

BRAKE SYSTEM			
DITARE OTOTEM			
Service brakes	4-wheel, wet multiple disc brake. Controlled by full hydraulic system. Dual circuit.		
Parking/Emergency brake	Spring-applied, oil pressure-released. Located on driveline.		

EQUIPMENT DATA



STANDARD EQUIPMENT

Engine

Air cleaner, double element

Auto idle shut down

Cold start (intake air heater)

Cooling fan, automatic reversible

Diesel particulate filter (exhaust filter)

EGR System

Fuel filter, w/water separator

Fuel pre-filter, w/water separator

Cummins QSB6.7 diesel engine

VGT (variable geometry turbocharger)

Work mode selector

Powertrain

Brakes, Service

Enclosed wet disc

Dual system

Inboard mounted

Brake, parking

Spring applied

Oil pressure released

Dry disc type

Differential, limited slip (F/R)

Down-shift switch

Drive shafts, low maintenance

1st speed hold switch on side console

F-R direction selector (2-column mounted/HYD-control lever mounted)

Quick power switch

Transmission, automatic w/load sensing system.

Transmission declutch (3-position

Transmission mode selection (3-position AUTO1/MAN/AUTO2)

Universal joints, sealed

Hydraulic System

Boom kick-out, dual (operator adjustable in cab)

Bucket positioner

Control lever, single, pilot-assisted

Control lever lock (electric)

Control valve, 2-spool, tandem control

Pump, variable displacement, load-sensing

Steering, pilot

System; open-center, high-pressure, load-sensing

Valve, anti-drift

Electrical

24-volt electrical system

Back-up alarm

Batteries (2), 12V, 1,000 CCA

Battery disconnect switch

Camera, rear-view

Converter, 12V/15 Amp

Horn, dual electric

Instrument panel, LCD, color

2 Headlights (halogen)

2 Forward working lights

4 Rear working lights

2 Stop/Tail/Backup (LED)

Turn signal w/4-way flashers/Marker

Cab

ROPS Cab: enclosed cab with sound suppression, front & rear wipers and washers, two rear view and side mirrors, tinted glass, full view latchback doors, sliding side windows.

Accessory outlet, 12V,

Adjustable armrest/console, (fore/aft sliding)

Air conditioner/heater/pressurizer

AM/FM/WB radio with AUX input

Ashtray

Cab dome lamps (2)

Cigarette lighter, 24v

Coat hook

Cup holder (2)

Floormat, sweep-out

Retractable seat belt (3 inch)

ROPS/FOPS certified

Seat, air suspension, fabric

Steering column, telescoping and tilting w/quick-release pedal

Steering wheel

Storage box (heated/cooled)

Storage tray

Sun visor

Alarms, Gauges and Indicators

Alarms(visual & audible)

Air cleaner element

Axle oil temperature

Battery discharge warning

Boost temperature/boost

temperature difference

Brake oil low pressure EGR gas temperature

Engine oil low pressure

Engine warning

Exhaust gas temperature

Fuel temperature

Fuel filter (plugged filter)

Fuel filter (water in fuel)

Hydraulic oil level

Hydraulic oil temperature

Intake air temperature

Main pump oil pressure

Overheat (engine coolant)

Transmission warning

Gauges

Brake oil pressure

Engine coolant temperature

Fuel gauge

Speedometer **Tachometer**

Transmission oil temperature

Indicators

Air conditioner display

Boom kick-out, dual Cold start

Control lever lock Declutch

Diesel particulate filter status

Fan reverse rotation

F-N-R selection

F-N-R switch enable

High beam

ECO-operating status

Work mode (normal, power)

Parking brake

Shift hold

Time/operating hour/ODO

Transmission mode and status

Turn signal w/4-way

flashers/marker

Work light

Others

Articulation locking bar

Counterweight

Drawbar

Fenders, Front, w/mudflap

Fenders, Rear, Deck-type, w/mudflap

Global e-Service, telematic monitoring system (GSM-version Ladders, inclined

Lifting eyes

Linkage pins, HN bushing

Neutral safety start

Rear grill, hinged

Steps, rear

Vandalism protection

Z-bar loader linkage

OPTIONAL EQUIPMENT

Autolube

Belly guard, transmission

Bolt-on cutting edge & segments

Bucket teeth

Counterweight, optional

Fenders, rear, full, w/mudflap

HID work lights

High lift arm

Hydraulic system, 3 spool valve

LED work lights

w/4 yrs. service)

Pre-cleaner (turbine type)

Quick coupler & attachments

Ride control, automatic

Seat, heated

Dual lever hydraulic control

Secondary steering

ONE FOCUS. COMPLETE SOLUTIONS.

THE KAWASAKI

It's the Kawasaki difference customers across North America look to—power, performance, reliability and a rich history of providing innovative solutions. Through its long-term commitment to maintaining a leadership position in technology, service and support, dedicated focus on a single product line and unsurpassed track record, Kawasaki continues to deliver. This means real benefits to your business: efficiency, increased production, reduced operating costs, comfort and across-the-board quality support.

- Dedicated Focus on Producing Wheel Loaders Since 1962
- Engineered Specialty Applications Packages
- Extensive Training at the KCMA Corporation Training Center and at Customer and Dealer Locations
- Flexible Warranty Programs
- Fully Equipped, in-house Rebuild Center
- 24-Hour Parts Shipments
- Carefully Designed Programs and Services

 Solid Partnerships with Knowledgeable, Experienced, Independent Dealers

HISTORY

KCMA's parent company, Kawasaki Heavy Industries, has been a global leader for more than 100 years at providing comprehensive solutions and quality, top-performing products. From aerospace to infrastructure to construction equipment, Kawasaki Heavy Industries sets the standard—all the while raising the bar.

FOCUS

Thanks to Kawasaki's total focus on articulated wheel loaders, your Kawasaki wheel loader is ready to tackle the most demanding applications and environments.

Even more, KCMA's fully equipped rebuild center, located in Kennesaw, Georgia, goes steps further by staffing skilled technicians armed with the in-depth knowledge and specialized equipment required to provide customers with first-class support.



INNOVATION

Working with end users across the globe, KCM engineers stay up to speed on reviewing wheel loader needs. The result: Kawasaki leads the way in responding to new industry demands with complete solutions, engineering and manufacturing Kawasaki wheel loaders that are up to the task—and your expectations.

KAWASAKI WHEEL LOADERS

- 15 Models
- .78-13.5 cu.yd.
- 45 HP-720 HP



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Courtesy of Machine.Market