286HP | 5.5 – 6.1 yd³ BUCKET CAPACITY

■ Kawasaki

BUCKET CAPACITY

72277



ONE FOCUS. COMPLETE SOLUTIONS.

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



90Z7 FEATURES:

- Fuel efficient Hino 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

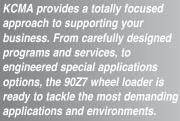
Kawasaki defines a new standard in production class wheel loaders with the introduction of the 90Z7 — a model that reflects the advanced engineering required to improve operating efficiencies while lowering operating costs through a highly intuitive, patented technology, the IntelliTech System.

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







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

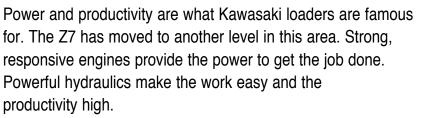
- Down Shift Switch allows for quick downshifting to meet operating conditions
- Shift Hold Switch allows for holding in range to meet operating conditions
- AutoMode provides for Automatic 1st–4th, 2nd–4th or manual for optimal operation
- Normal and Power modes match the full range of demand
- Quick 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 low ash, CJ-4 oil
- Accessible filters, ground level fueling, tank sight gauges, grouped grease fittings



POWERFUL.



POWERFUL ENGINE

- Hino E13C Diesel with a big 286 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

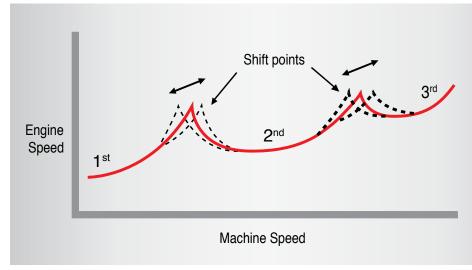






INTELLITECH SYSTEM

- 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
- Shockless Declutch provides smooth

 declutch function

declutch function for level or slope operations



- 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/CD/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, 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," "Automode 1 & 2," "Variable Declutch," "Manual DPF Regen," "Control Lever Lock" and optional "Ride Control."
- · Adjustable Side console to fit operator preference





SERVICE SIMPLIFIED

EASY ACCESS

- Angled Ladders
- Wide-Access Engine Compartment Doors
- · Swing Out Radiator Fan
- · Battery Disconnect
- · Easy Access Battery Box
- · Grouped Lube Points
- · Ground Level Hydraulic Sight Gauge
- · Circuit Breaker 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











BUCKET DATA



.) .101			General	Material Handling	
		A	Straight Edge With Bolt-on Cutting Edge	Straight Edge With Teeth	Straight Edge With Bolt-on Cutting Edge
		yd ³	5.5	5.2	6.1
Capacity	Heaped	(m³)	(4.2)	(4.0)	(4.7)
Сараспу	Struck	yd³ (m³)	4.8 (3.7)	4.6 (3.5)	5.4 (4.1)
Maximum dump	ing clearance	ft-in (mm)	10'1" (3,075)	9'8 ³ / ₈ " (2,955)	9'10 ¹ / ₂ " (3,010)
Dumping reach edge or tooth)	(to front of bucket	ft-in (mm)	4'4 ³ / ₄ " (1,340)	4'7 ⁷ /8" (1,420)	4'7¹/8" (1,400)
Max. hinge pin h	neight	ft-in (mm)	14'61/4" (4,425)	14'6'1/4" (4,425)	14'6¹/₄" (4,425)
Digging depth (v	vith bucket level)	ft-in (mm)	4 ¹ / ₂ " (115)	5 ³ / ₄ " (145)	4 ¹ / ₂ " (115)
Breakout force		lb (kN)	44,060 (196)	47,210 (210)	41,815 (186)
Bucket tilt-back	at ground level	degree	41°	41°	41°
angle	at carry position	degree	50°	50°	50°
	Length	ft-in (mm)	29'8 ¹ / ₂ " (9,055)	30'2" (9,195)	29'11 ⁷ / ₈ " (9,140)
	Height (up to cab top)	ft-in (mm)	11'7" (3,530)	11'7" (3,530)	11 ¹ 7" (3,530)
Overall	Height (bucket fully raised)	ft-in (mm)	19 ¹ 10 ¹ / ₄ " (6,050)	19'10 ¹ / ₄ " (6,050)	20'1¹/2" (6,135)
	Width (outside tire)	ft-in (mm)	9'73/8" (2,930)	9'73/8" (2,930)	9'7 ³ / ₈ " (2,930)
	Width (outside bucket)	ft-in (mm)	10'2" (3,100)	10'2 ⁷ / ₈ " (3,120)	10'2" (3,100)
Tread	`	ft-in (mm)	7'33/4" (2,230)	7'3 ³ / ₄ " (2,230)	7'3 ³ / ₄ " (2,230)
Wheel base		ft-in (mm)	11'3 ⁷ /8" (3,450)	11'37/e" (3,450)	11'3 ⁷ / ₈ " (3,450)
Clearance	at outside of bucket	ft-in (mm)	48'2" (14,680)	48'6 ¹ / ₄ " (14,790)	48'4" (14,730)
Circle (bucket carry position)	at outside of tire	ft-in (mm)	43'51/4" (13,240)	43'51/4" (13,240)	43'5 ¹ / ₄ " (13,240)
		ft-in (mm)	1'7 ⁷ / ₈ " (505)	1'7 ⁷ /8" (505)	1'7 ⁷ / ₈ " (505)
Full articulation angle degr		degree	37°	37°	37°
Operating weight (with ROPS Cab)		lb (kg)	54,370 (24,660)	54,120 (24,550)	55,070 (24,980)
Static Tipping	Straight	lb (kg)	41,360 (18,760)	41,670 (18,900)	40,370 (18,310)
Load (with ROPS cab)	Full turn	lb (kg)	36,070 (16,360)	36,330 (16,480)	35,190 (15,960)

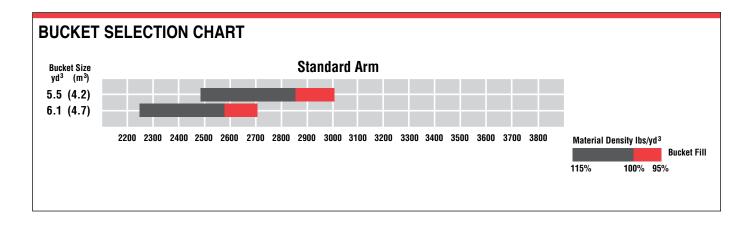
The weight and load figure includes optional counterweight, enclosed ROPS Cab, air conditioner, 26.5-25 (L-3) tires, full fuel tank and operator.

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

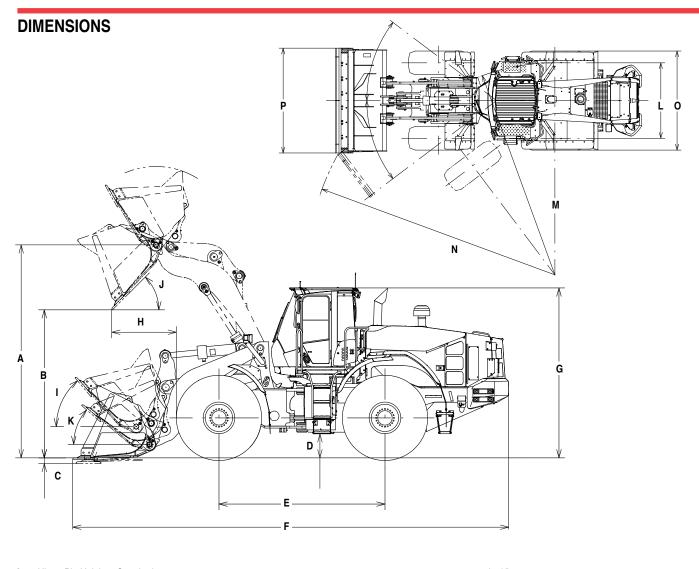


WEIGHTS AND DIMENSIONS								
		Operating Tipping Load		Load		Overall Width	0	
		Weight	Straight	Full Turn		(Outside Tire)	Overall Height	Overall Length
Remove ROPS Cab (for transport only)	lb (kg)	-1,260 (-570)	-1,040 (-470)	-900 (-410)	in (mm)			
Remove Optional Counterweight	lb (kg)	-1,150 (-520)	-2,760 (-1,250)	-2,400 (-1,090)	in (mm)			
Belly Guard (transmission)	lb (kg)	+200 (+90)	+240 (+110)	+200 (+90)	in (mm)			
Tires: 23.5R25 (L-3)	lb (kg)	-1,200 (-560)	-900 (-400)	-770 (-350)	in (mm)	-3 ³ / ₈ (-85)	-2 ³ / ₈ (-60)	+2 (+50)
26.5R25 (L-3)	lb (kg)	±0 (±0)	±0 (±0)	±0 (±0)	in (mm)			
26.5R25 (L-4)	lb (kg)	+900 (+400)	+640 (+290)	+550 (+250)	in (mm)	+ ⁵ / ₈ (+15)	+1 ³ / ₁₆ (+30)	-1 (-25)
26.5R25 (L-5)	lb (kg)	+1,600 (+740)	+1,190 (+540)	+1,040 (+470)	in (mm)	+ ⁵ / ₈ (+15)	+1 ³ / ₁₆ (+30)	-1 (-25)
750/65R25 (L-3)	lb (kg)	-400 (-160)	-240 (-110)	-220 (-100)	in (mm)	+1 (+25)	-2 ³ / ₈ (-60)	+2 (+50)
23.5-25-20PR (L-3)	lb (kg)	-1,400 (-640)	-1,010 (-460)	-900 (-400)	in (mm)	-3 ³ / ₈ (-85)	-2 ³ / ₈ (-60)	+2 (+50)
26.5-25-20PR (L-2)	lb (kg)	-400 (-180)	-290 (-130)	-240 (-110)	in (mm)			
26.5-25-20PR (L-4)	lb (kg)	+1,100 (+480)	+770 (+350)	+660 (+300)	in (mm)			
26.5-25-20PR (L-5)	lb (kg)	+ 1,900 (+840)	+1,340 (+610)	+1,170 (+530)	in (mm)			



OPERATING SPECIFICATIONS





Α	Hinge-Pin Height – Standard	14'61/4"	4,425 mm
В	Dumping Clearance	10'1"	3,075 mm
С	Digging Depth	41/2"	115 mm
D	Ground Clearance With 26.5-25 (See Tire Option Chart for Other Tires)	1'77/8"	505 mm
Е	Wheelbase	11'37/8"	3,450 mm
F	Overall Length	29'81/2"	9,055 mm
G	Height to Top of Cab/ROPS	11'7"	3,530 mm
Н	Dumping Reach – Standard	4'43/4"	1,340 mm
<u> </u>	Tilt-Back @ Carry	50°	50°
J	Dump Angle @ Maximum Lift	45°	45°
K	Tilt-Back @ Ground	41°	41°
L	Tread	7'33/4"	2,230 mm

Clearance Circle — All dimensions are approximate and based on 26.5R25 (L-3) tires.

М	Clearance Circle to Outside of Tires	43'51/4"	13,240 mm
N	Clearance Circle to Outside of Bucket	48'2"	14,680 mm
0	Width Over Tires	9'73/8"	2,930 mm
Р	Width to Outside Bucket	10'2"	3,100 mm

OPERATING SPECIFICATIONS



ENGINE (EPA Tier 4 Interim/EU Stage IIIB Certified)				
Gross Power	295 HP/1,800 RPM (220 kW/1800 RPM)			
Net Power (SAE J1349) ISO 9249	286 HP/1,800 RPM (213 kW/1800 RPM)			
Make/Model	HINO E13C-VV 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	Electronically controlled, common rail type			
Governor	All speed electrical type			
Cooling Module Type	Hydraulic-driven, suction-type fan, pressurized radiator			
Number of cylinders	6			
Bore and stroke	5.394" x 5.748" (137mm x 146mm)			
Total displacement	788 in ³ (12.9 liters)			
Alternator	AC24V 60A			
Air Cleaner	Dry type (double element)			
Starter Motor	DC 24V 7.0 kW			
Battery	DC12V 1,000 CCA, 2 units			

TORQUE CONVERTER AND TRANSMISSION		
Torque converter	3-element, single-stage, 1-phase	
Transmission	Countershaft type, Full power shift	
Speeds: Forward	1st: 4.1 MPH (6.6 km/hr) 2nd: 7.0 MPH (11.3 km/hr) 3rd: 14.0 MPH (22.6 km/hr) 4th: 23.0 MPH (37.0 km/hr)	
Speeds: Reverse	1st: 4.1 MPH (6.6 km/hr) 2nd: 7.0 MPH (11.3 km/hr) 3rd: 14.0 MPH (22.6 km/hr) 4th: 23.0 MPH (37.0 km/hr)	

SYSTEMS REFILL CAPACITY				
LOCATION	GALLONS	LITERS		
Fuel tank (diesel fuel)	105.0	396		
Engine lubricant (including oil pan)	11.9	45		
Engine coolant	15.1	57		
T/M & T/C	13.5	51		
Axle (front/rear)	12.7/12.7	48/48		
Hydraulic oil tank	36.2	137		
Hydraulic system (including hydraulic tank)	52.8	200		

HYDRAULIC AND STEERING SYSTEM				
Steering type		Articulated frame steering		
Steering mechani	sm	Hydraulic power steering unit, pilot operated type		
Lift (boom) cylind	er	Two (2) double-acting piston type: 5.709" x 34.803" (145mm x 884mm)		
Tilt (bucket) cylind	der	One (1) double-acting piston type: 7.087" x 20.669" (180mm x 525mm)		
Steering cylinder		Two (2) double-acting piston type: 3.543" x 17.717" (90mm x 450mm)		
Main oil pump		Variable Piston type: 74.0 GPM/1000 PSI @ 1800 RPM (280 LPM/6.9 MPa @ 1800 RPM)		
Pilot oil pump		Gear type: 19.7 GPM/1000 PSI @ 1800 RPM (74.5 LPM @ 1800 RPM)		
Relief valve set	Loading	4554 psi, 31.4 MPa (320 kgf/cm²)		
pressure	Steering	3974 psi, 27.4 MPa (280 kgf/cm²)		
HYDRAULIC CYC	CLE TIME* f	ront end loading, Z bar linkage system		
Lifting time (at ful	l load)	6.0 sec.		
Lowering time (er	npty)	4.1 sec.		
Bucket dumping t	ime	1.1 sec.		
TOTAL		11.2 sec.		

^{*} Measured in accordance with SAE J732C

AXLE SYSTEM		
Drive system	4-wheel drive	
Front and rear axle	Semi-floating type	
	26.5 x 25-20PR (L-3) Tubeless	
Tires	26.5 x 25-20PR (L-2) (L-4) (L-5)	
	26.5R25 (L-3) (Radial)	
Reduction and differential gear	Spiral bevel gear, torque proportioning, single stage reduction	
Final reduction gear	Inboard mounted, internal planetary gear	
Oscillation angle	±12°	

BRAKE SYSTEM			
Service brakes	4-wheel, wet multiple disc brake. Controlled by fully 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 (eff SN: 5040)

Cold Start (Intake Air Heater)

Cooling Fan. Automatic Reversible.

Swing-out Type Diesel particulate filter (Exhaust filter)

EGR System

Fuel filter, w/water separator

Fuel Pre-Filter, w/water separator

Hino E13C diesel engine

Pre-cleaner, (turbine type)

VGT (Variable Geometry Turbocharger)

Work mode selector

Powertrain

Brakes, Service

Dual System

Enclosed Wet Disc

Inboard Mounted

Brake, Parking

Oil Pressure Released

Spring Applied Wet Disc Type

Differential, Torque proportioning type (F/R)

Down-Shift Switch

Drive shafts, Low maintenance

F-R direction selector (2-Column mounted/Console mounted)

Quick Power switch

Transmission, Automatic w/load sensing system.

Transmission declutch (3-position L/H/Off)

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, Dual, 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 (Halogen)

4 Rear Working Lights (Halogen)

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/CD/WB radio with AUX input

Ashtray

Cab Dome Lamps (2)

Cigarette Lighter, 24V

Coat Hook

Cup Holder (2)

Floormat, Sweep-out

Retractable seat belt (3inch)

ROPS/FOPS Certified

Seat, Air Suspension, fabric

Steering Column, Telescoping and Tilting w/quick-release pedal

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 das 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

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/Oprerating hour/ODO

Transmission mode and status

Turn signal w/4-way flashers/

Marker Work light

Others

Articulation locking bar

Counterweight

Drawbar

Fenders, Rear, Full, w/mudflap

Fenders, Front, w/mudflap

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

High Lift Boom Arm

Hydraulic System, 3 Spool Valve

Quick Coupler & Attachments

Ride Control. Automatic

Supplemental Steering Seat Heated

w/multifunction Grip

Single Lever Hydraulic Control

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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Part# 90Z7 BROCH (8/2012)