



174HP | 3.25 - 4.0 yd³ BUCKET CAPACITY



RUGGED AND DEPENDABLE

A COMPLETE SOLUTION

- Emissions-certified 174 HP Cummins diesel engine
- 3.25 to 4.0 cu. yard bucket available
- Accepts a wide assortment of attachments to handle many jobs
- Ride Control option provides stable load handling
- Single hydraulic control option for easy operation
- Automatic powershift transmission with four forward and reverse speeds
- Outboard-mounted, dual circuit wet disc brakes for reliability and long service life
- Torque-proportioning differentials for longer tire life and less wheel spin

- Wide front fenders with mud flaps, standard
- Transmission has helical gears which reduce noise level and vibration
- Automatic Reversible Fan Cooling Fan with manual override, standard.
- Adjustable declutch allows the operator to adjust the declutch to various operating conditions
- Increased power and torque
- ► Air conditioning, standard
- MODM (Machine Operation Diagnostic Module) provides essential operations and diagnostic information in an easy-to-read LED display
- ELS (Efficient Loading System), Optional

EASY TO OPERATE. Easy to maintain. Easy to do business with.

POWER TO SPARE.

The 70ZV-2 features a redesigned ROPS cab with operator-friendly features. The operator may now customize settings and make adjustments to the loader controls to work more efficiently in the current operating conditions or environment. New features like the Adjustable Declutch, Dual Boom Kickout Control, Idle Management System, and Dual Mode Engine Switch, allow the operator to make adjustments from the comfort of the cab increasing productivity and efficiency. Options such as the Limited Slip Differentials and ELS (Efficient Loading System) allow the operator additional controls to adapt the 70ZV-2 loader to the working conditions.



COMFORTABLE, EFFICIENT, SAFE.

The 70ZV-2 features standard air conditioning and heater. The Air Ride seat is standard. The operator compartment has increased leg room. Options such as the F-R Directional Switch, Ride control, and Single Lever Hydraulic Control allow the operator additional ease of operation and comfort.

VERSATILE, RELIABLE, STRONG.

Like all Kawasaki loaders, the 70ZV-2 has a 45⁺ year heritage of strength and reliability.

The 70ZV-2 is available with several buckets, bucket teeth, and bolt-on cutting edge combinations. A third spool valve is available to handle a number of attachments and extend the wheel loader's versatility.

Features such as the outboard-mounted, sealed wet disc brakes are designed for long life and easy access and overhaul. Spin-on filters, grouped grease fittings, sealed universal joints, hinged hydraulic oil cooler, all provide easy field maintenance. The new MODM (Machine Operation Diagnostic Module) provides essential operational and diagnostic information in an easy-to-read LED display. The optional K-LINK system allows location, system alarm sensors, and all major machine performance data to be electronically transmitted to cell phones, fax and e-mail for real-time equipment management.

FAILURE IS NOT AN OPTION.

Kawasaki is dedicated to keeping your wheel loader up and running, even in the most challenging situations. Starting with the KLEW (Kawasaki Loaders Early Warning) Oil Analysis System, designed to eliminate unnecessary maintenance and downtime, to our 24-hour parts shipment service, and our extensive rebuild program, Kawasaki has the expertise and experience to respond quickly to your needs.



POWER AND PERFORMANCE PROVIDE UNMATCHED PRODUCTIVITY



COMPUTER CONTROLLED ENGINE

The Engine Control Module (ECM) provides a wide range of operating data and feedback to assist in analyzing diagnostics and troubleshooting. Cummins provides diagnostic tools to allow technicians to quickly recover engine information for fast, accurate analysis.

EPA Tier III emission standards are met by using the Cummins In-Cylinder Advanced Combustion Solution, a proven technology that keeps the overall design simple and less costly to maintain.

- Extended Oil Change intervals
- Increased Peak Torque provides improved performance, better rimpull.
- Reduced RPM reduces fuel consumption without loss of operating efficiency.
- Idle Management System allows for lower engine speed when idling for extended periods to conserve fuel. It also increases engine RPM to reduce engine warm-up time in cold temperatures.

WORLD-CLASS ENGINES

- 174 HP Cummins QSB6.7 diesel
- Certified Tier III Emissions
- Engineered for longer service life
- · Reliable and fuel efficient
- · Extensive distribution system
- 24 volt battery system for reserve power
- Turbocharger with aftercooler

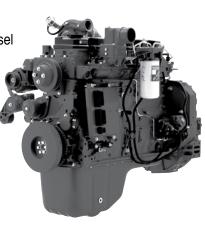
FUEL EFFICIENT MODE

The operator



can select either "Power" or "Fuel Efficient" engine mode. Power mode provides added power for

extreme applications. Fuel Efficient mode offers better fuel economy for standard applications.



HIGH EFFICIENCY HYDRAULIC SYSTEM

- Dry, reliable
- Cast iron, dirt tolerant, gear pumps
- Easy access to two-spool control valve
- · Large oil reservoir keeps oil cooler

TRANSMISSION

- Automatic transmission selects optimum speed from second to fourth gear
- Single lever control
- Switch activates adjustable transmission declutch on the left brake pedal 1
- Transmission declutch can be set by the operator to match operating conditions
- Downshift button speeds cycle times and reduces operator fatigue
- · Helical gears reduce noise and vibration

AXLES/BRAKES

- Torque Proportioned Differentials improve traction in slippery conditions
- 20.5 x 25-12PR (L-2) tires standard
- Optional L-2 and L-3 bias and radial tires available in 20.5-25 and 23.5-25 sizes.
- 3-piece rims standard
- Outboard-mounted, dual-circuit wet disc brakes 3
- Easy maintenance
- High capacity
- Long life

LIFT ARMS/BUCKETS

- · Z-linkage
- High breakout force
- · Optional high lift arms available
- 3.25 to 4.0 cu. yd. buckets
- · Easy loading
- Excellent load retention
- Full assortment of edges and teeth
- Complete array of attachments available
- Bolt-on heel plates
 extend bucket life

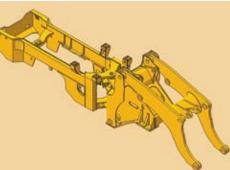
ECONOMIC AND EFFICIENT SYSTEMS

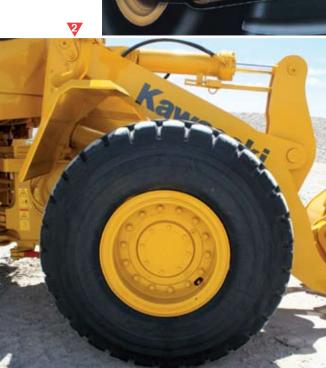
- Hydraulic System, designed for energy efficiency with the steering flow to supplement the main circuit once steering demand is met. This allows for full utilization of the pump capacity for efficient operation in all conditions.
- Adjustable Boom Kickout can be set by the operator to attain proper dump height and return-to-dig height 4
- Automatic 4-speed transmission, single grip
- Bucket leveler and boom kick-out standard

STRUCTURED TO LAST

- Redesigned buckets provide easy loading and excellent load retention
- Full assortment of edges and teeth
- · Complete array of attachments available
- Massive center pins and bearings
- Heavy box frame rear chassis













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THE COMFORT ZONE

WAY



ENJOY THE RIDE

- The cab provides excellent visibility in all directions
- 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
- Fully certified ROPS/FOPS cab meets all regulations
- · Increased Leg Room
- Air Conditioning, standard
- Air Ride Seat, standard
- Tilting and Telescopic Steering column
- Easy access to cab on both sides
 of machine
- Sliding side windows
- AM/FM CD Radio with AUX input, standard
- · Increased personal storage
- Front and Rear window wipers and washers

TOTAL COMMAND. TOTAL CONTROL.

Λ

- MODM (Machine Operation Diagnostic Module) offers information to make the operation, maintenance and troubleshooting more efficient. With this information, operators, maintenance and technical personnel can quickly determine key operating data.
- Downshift Button, located on the boom control lever provides quick, convenient downshifting from 2nd gear to 1st gear.
- Adjustable Declutch allows the operator to select the location of the left brake pedal where the declutch engages. This allows the operator to adjust for varying operating conditions easily.
- 12V outlet for operator to use 2-way radios and other plug-in devices



ACCESSIBILITY, SERVICEABILITY, DURABILITY

- Sealed universal joints only require greasing at 12,000 hour intervals extending the life expectancy of the drive shaft
- Gull wing engine panels and hinged rear grill allow easy engine and cooler access
- · Easy access to filters, drains and fittings
- MODM (Machine Operation Diagnostic Module) offers information to make the operation, maintenance and troubleshooting more efficient. With this information, operators, maintenance and technical personnel can quickly determine key operating data.
- Increased Transmission Capacity provides greater service life
- Outboard Wet Disc Brakes, sealed, provide high capacity braking and protection from contamination. The dual brake system separates the front and rear axles for added safety.
- Sealed Deutsch DT electrical connectors are used throughout the system to reduce corrosion and improve durability
- Automatic reversible cooling fan and swing-out hydraulic cooler provide exceptional cooler cleanliness and access









<u>OPTIONS</u>

OPTIONAL EQUIPMENT

- ELS Efficient Loading System, increases rimpull power when digging while demanding less fuel. Increases productivity and fuel efficiency. A switch on the instrument control panel allows operator to activate from cab. 1
- JRB Quick Coupler and Attachments
- Limited Slip Differentials provide additional traction for applications requiring extreme traction control. 3
- F-R Directional Switch allows the operator to select direction directly from the side console.
- Ride Control offers a smooth ride to improve load retention and increase travel speeds. 5
- HID (High Intensity Discharge) lights are extremely bright lights with exceptionally long service life.

Without Ride Control

- K-Link, a management tool, provides on demand reports on machine location, hours, system sensors, engine performance, operating status, geo-fence break alerts and several customizable reports by phone, pager, or e-mail
- Single Lever Hydraulic Control increases operator efficiency
- Back up Camera

SPECIAL APPLICATION PACKAGES

- Agriculture
- Logging/Woodchip
- · Waste/Refuse/Recycling







70ZV-2

BUCKET DATA

				Standard Boom		High Lift
			General Purpose Bucket With Bolt-on Cutting Edge	General Purpose Bucket With Teeth	Material Handling Bucket With Bolt-on Cutting Edge	Light Material
Capacity	Heaped	yd ³ (m ³)	3.5 (2.7)	3.25 (2.5)	4.0 (3.1)	3.5 (2.7)
	Struck	yd ³ (m ³)	3.0 (2.3)	2.8 (2.1)	3.5 (2.7)	3.0 (2.3)
Maximum dump clearance	bing	ft-in (mm)	9'2 ¹³ / ₁₆ " (2,815)	8'1 ^{15/} 16" (2,725)	9'1/ ₁₆ " (2,745)	10'6 ¹ / ₁₆ " (3,200)
Dumping reach of bucket edge		ft-in (mm)	3'7 ¹⁵ / ₁₆ " (1,090)	3'91/2" (1,155)	3'9 ¹¹ / ₁₆ " (1,160)	3'7 ³ /4" (1,110)
Bucket hinge pi		ft-in (mm)	12'91/8" (3,890)	12'91/8" (3,890)	12'91/8" (3,890)	14'1/8" (4,270)
Digging depth		ft-in (mm)	4 ³ /4" (120)	5 ⁵ / ₁₆ " (135)	4 ³ / ₄ " (120)	4 ³ / ₄ " (120)
Breakout force		lb (kg)	27,875 (12,655)	30,310 (13,750)	25,530 (11,590)	27,875 (12,655)
Bucket tilt-	at ground level		43.5°	43.5°	43.5°	43°
back angle	at carry position		49.7°	49.7°	49.7°	48.3°
Overall	Length	ft-in (mm)	24'11 ³ / ₁₆ " (7,600)	25'3³/4" (7,715)	25'3¹/8" (7,700)	26'2 ¹ / ₁₆ " (7,975)
	Height	ft-in (mm)	10'1 ^{15/} 16" (3,335)	10'1 ¹⁵ /16" (3,335)	10'1 ¹⁵ / ₁₆ " (3,335)	10'1 ^{15/} 16" (3,335)
	Width (outside tire)	ft-in (mm)	8'5 ³ /4" (2,585)	8'5 ³ /4" (2,585)	8'5³/₄" (2,585)	8'5 ^{3/4} " (2,585)
	Width (outside bucket)	ft-in (mm)	8'9 ¹ / ₈ " (2,670)	8'9 ⁵ /8" (2,680)	8'91/8" (2,670)	8'91/ ₈ " (2,670)
Wheel base		ft-in (mm)	10'1/8" (3,050)	10'1/8" (3,050)	10'1/8" (3,050)	10' ¹ /8" (3,050)
Minimum turning radius	at outside bucket	ft-in (mm)	19'10 ⁷ /8" (6,055)	19'11 ¹⁵ / ₁₆ " (6,100)	19'11³/8" (6,095)	20'5 ³ / ₁₆ " (6,225)
	at center of outside tire	ft-in (mm)	17'1 ³ /8" (5,215)	17'1 ³ /8" (5,215)	17'1³/8" (5,215)	17'1 ³ /8" (5,215)
Minimum groun clearance	d	ft-in (mm)	1'3 ⁹ / ₁₆ " (395)	1'3 ⁹ / ₁₆ " (395)	1'3 ^{9/} 16" (395)	1'3 ^{9/} 16" (395)
Full articulation angle degree		degree	40°	40°	40°	40°
Operating weigh	nt	lb (kg)	32,210 (14,610)	31,990 (14,510)	32,385 (14,690)	32,650 (14,810)
Static tipping load	Straight	lb (kg)	26,785 (12,150)	27,095 (12,290)	26,590 (12,060)	22,585 (10,245)
	Full turn	lb (kg)	22,970 (10,420)	23,235 (10,540)	22,820 (10,350)	19,380 (8,790)

The weight and load figure includes optional counterweight, enclosed ROPS cab, air conditioner, 20.5-25-12 (L-2) 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.

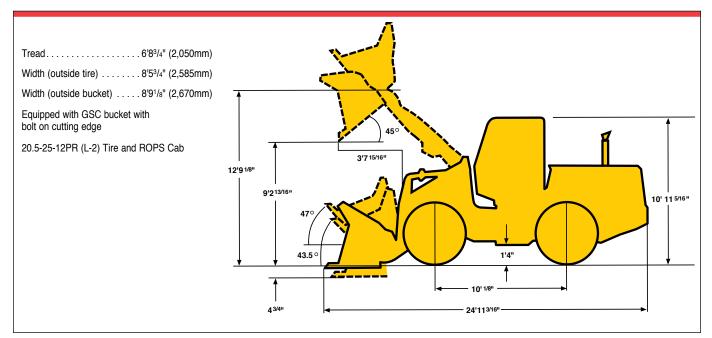
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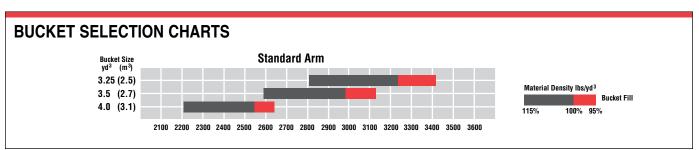
OPERATING SPECIFICATIONS

WEIGHTS AND DIMENSIONS (SUPPLEMENTAL DATA)

		Operating	Tippi	ng Load		Overall Width	Tread	Vertical	Overall
		Weight	Straight	Full Turn		(Outside Tire)		Dimensions	Length
ROPS Canopy (Instead of ROPS Cab)	lb (kg)	-310 (-140)	-330 (-150)	-290 (-130)	in (mm)				
Remove ROPS Cab (for transport only)	lb (kg)	-1,100 (-500)			in (mm)			-10' ^{15/} 16" (-275)	
Remove Optional Counterweight	lb (kg)	-770 (-350)	-1,760 (-800)	-1,540 (-700)	in (mm)				
Tires: 20.5-25-12PR (L-3)	lb (kg)	+264 (+120)	+198 (+90)	+176 (+80)	in (mm)	+2 (+50)	-11 ⁵ / ₁₆ " (-40)		
23.5-25-12PR (L-2)	lb (kg)	+1,610 (+730)	+1,200 (+545)	+1,030 (+465)	in (mm)	+2 (+50)	+1 ⁵ /8" (+40)	+2 ³ /8" (+60)	-2 ¹ /8" (-55)
23.5-25-12PR (L-3)	lb (kg)	+2,030 (+920)	+1,520 (+690)	+1,300 (+590)	in (mm)	+2 (+50)	+1 ⁵ /8" (+40)	+2 ³ /8" (+60)	-2 ¹ /8" (-55)
650/65R25 Low Profile	lb (kg)	+2,006 (+910)	+1,521 (+690)	+1,322 (+600)	in (mm)	+2 (+50)	-11 ^{5/} 16" (-40)		
Air conditioner (Deletion)	lb (kg)	-220 (-100)	-240 (-110)	-210 (-95)	in (mm)				
Belly Guard (rear frame)	lb (kg)	+236 (+130)	+352 (+160)	+308 (+140)	in (mm)				

Base Tire 20.5-25-12PR (L-2)





702V-2

OPERATING SPECIFICATIONS

ENGINE

Gross Power (SAE J1995)	193 HP/2200 RPM	
Net Power (SAE J1349)	174 HP/2200 RPM	
Net Peak Torque	657 lbft./1400RPM	
Make/Model/Fuel Type	Cummins/QSB6.7/Diesel	
Туре	4-cycle, watercooled, in-line direct injection type with turbo charger and air-cooled intercooler	
Number of cylinders	6	
Bore and stroke	4.2" x 4.8" (107mm x 124mm)	
Total displacement	409 in3 (6.7 L)	
Alternator	AC24V-1.7kw (70amp)	
Battery	12V-150AH (1,000 CCA), 2 units	

TORQUE CONVERTER AND TRANSMISSION

Torque converter		3 elements, single stage				
Torque sta	all ratio	2.96:1				
Main clutc	hes	Wet hydraulic, multi-disc type				
Cooling m	ethod	Forced circulation type				
Transmission		Full power shift, 4 forward, 4 reverse with automatic mode (2nd – 4th) with downshift switch for 2nd – 1st downshifting				
Speeds	Forward	1st: 4.5 MPH (7.3 km/hr) 2nd: 7.6 MPH (12.3 km/hr) 3rd: 12.7 MPH (20.4 km/hr) 4th: 23.0 MPH (37 km/hr)				
	Reverse	1st: 4.7 MPH (7.5 km/hr) 2nd: 7.8 MPH (12.5 km/hr) 3rd: 12.9 MPH (20.8 km/hr) 4th: 23.3 MPH (37.5 km/hr)				

SYSTEMS CAPACITY				
LOCATION	Gallons	Liters		
Engine (coolant)	7.9	(30.0)		
Fuel tank (diesel fuel)	71.3	(270.0)		
Engine (oil pan)	6.3	(24.0)		
Front axle (gear oil)	13.2	(50.0)		
Rear axle (gear oil)	13.7	(52.0)		
Torque converter and transmission (engine oil)	11.9	(45.0)		
Hydraulic system including tank (hydraulic oil)	44.9	(170.0)		

	Articulated frame steering				
nanism	Hydraulic power steering unit, direct type				
inder	Two (2) double-acting piston type: 5.5" x 29.7" (140mm x 754mm)				
linder	One (1) double-acting piston type: 6.3" x 20.1" (160mm x 511mm)				
der	Two (2) double-acting piston type: 3.1" x 15.0" (80mm x 380mm)				
	Gear type: 18.2 GPM @ 2200 RPM (69 LPM @ 2200 RPM)				
imp	Gear type: 46.2 GPM @ 2200 RPM (175 LPM @ 2200 RPM)				
	Gear type: 18.2 GPM @ 2200 RPM (69 LPM @ 2400 RPM)				
Loading	3000 psi (210 kg/cm2)				
Steering	3000 psi (210 kg/cm2)				
CYCLE TIME*					
full load)	5.9 sec.				
(empty)	3.1 sec.				
ng time	1.2 sec.				
	10.2 sec.				
	inder linder ler mp Loading Steering CYCLE TIME* full load) (empty)				

HYDRAULIC AND STEERING SYSTEM

* Measured in accordance with SAE J732C

AXL	AXLE SYSTEM				
Drive system		4-wheel drive			
Front a	and rear axle	Full floating banjo type			
Tires	Standard	20.5 x 25-12PR (L-2)			
	Optional	20.5 x 25-12PR (L-3) 23.5 x 25-12PR (L-3) 650/65R25 Low Profile			
Reduction and differential gear		Spiral bevel/gear, 1 stage reduction torque, proportioning type			
Final reduction gear		Outboard mounted. Internal planetary gear			
Oscillation angle		±11° (total 22°)			

BRAKE SYSTEM				
Service brakes	4 wheel, adjustment free, wet multiple disc brake. Controlled by full hydraulic system. Dual circuit.			
Parking/Emergency brake	Spring applied, oil pressure released. Dry drum type. Meets MSHA requirements.			



STANDARD EQUIPMENT

Air Conditioner (R134 Refrigerant) Alarms (Audible): Brake Pressure Engine Oil Pressure Hvdraulic Oil Level Parking Brake with T/M Engaged Alarms (Visual): Air Filter **Battery Discharge** Brake Pressure Central Warning Lamp Engine Coolant Temperature Engine Oil Pressure Engine Warning Hydraulic Oil Level Torque Converter Oil Temperature Transmission Control Warning Alternator (70 amp) AM/FM CD Radio with AUX input Batteries: 12V-1,000cca (2 units)

Boom Kickout (2-Position, Adjustable, In Cab) Brake Line Protection (Front) Brake (Parking) Spring applied: Oil pressure released, Drum Type Brakes (Service) Enclosed Wet Disc. Dual System Full Hydraulic System Bucket Control Lever Dual, Pilot Assisted **Bucket Leveler** Coat Hook Cold Start Aid Converter, 12V/15Amp w/dash outlet Cooling fan, Automatic Reversible with manual override Cup Holder Downshift Button Drawbar Fenders (Full width front w/mudflaps, rear)

Gauges: Converter Oil Temperature Engine Coolant Temperature Fuel Level Hour Meter Hydraulic Oil Level (sight) Tachometer Heater/Pressurizer Hoodsides (Hinged) Horn (Electric) Indicators: **Engine Pre-Heater** High Beam Parking Brake Transmission Declutch **Transmission Shift Monitor** Working Light Linkage (Z-type, Sealed) Liahts: 2 Headlights (Hi/Lo/Halogen) 4 Forward Working Lights 4 Rear Working Lights 2 Stop/Tail/Backup (LED) MODM (Machine Operation Diagnostic Module) Muffler Neutral Safety Start

Operator's Manual Box Radiator, aluminum fin type Radiator Grille, Hinged **Reverse Alarm** ROPS Cab: Enclosed cab with sound suppression. front and rear wipers and washers, two rear view and two side mirrors, tinted glass, and sliding side windows Safety Articulation Locking Bar Seat. Air Ride Seat Belt, Retractable, 3" wide Shift Control Unit for Automatic Shift Steering wheel, telescopic and tilt **Torque Proportioning** Differentials Transmission Declutch Select/Adjustment Switch Vandalism Protection Wrist Rest. Adjustable

OPTIONAL EQUIPMENT

		1	1
Back-up Camera	Emergency Steering	High Lift Arm	Quick Coupler and
Bolt-On Cutting Edge	Engine Pre-Cleaner, Turbine	Hydraulic System, 3-Spool	Attachments
Segments	Fenders, Extra-Wide,	Valve	Ride Control
Bucket Teeth	Front & Rear (hinged)	K-Link	ROPS Canopy
Counterweight, Bucket	F-R Direction Switch	Limited Slip Differentials	Single Lever Hydraulic
Cushion Dump Valve	HID Lighting (High Intensity	Multi-Function Grip	Control
ELS (Efficient Loading	Discharge	No-Spin Differential	Turn Signal With
System)			Four-Way Flasher
. ,			

KAWASAKI KEEPS IT SIMPLE.



Since 1962, Kawasaki has been listening to and learning from customers and dealers in the field. As a result, Kawasaki wheel loaders continue to evolve, with a constant focus on one thing — producing the most durable, most efficient, most dependable machines possible.

EASY TO OPERATE.

In a world of increasing demands, tighter deadlines, shrinking budgets and complicated contracts, better efficiency and greater productivity are a must. Innovative high-tech features on all Kawasaki wheel loaders allow the operator to adapt to the environment and the application right from the cab.

EASY TO MAINTAIN.

Diagnostic and operational modules monitor fluids and filters, and constantly provide information on everything from engine and transmission codes to location, hours, alarm sensors and machine performance data.

EASY TO DO BUSINESS WITH.

No run-arounds. No layers and layers of management. No distractions from competing product lines. Wheel loaders are our only business. Got a question? We'll get you an answer. Need a part? It's on its way. Quickly. Kawasaki offers flexible warranty programs, a state-of-the-art parts distribution system, an in-house rebuild center, and an experienced, knowledgeable support staff, focused on serving you.

The independent dealers that represent and support Kawasaki loaders are experts in their markets and are dedicated to providing you with the best service available.

Together, we are committed to making your investment in a Kawasaki loader a sound business decision that will pay dividends for years to come.

KAWASAKI. ONE FOCUS. COMPLETE SOLUTIONS.





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