







70^{Zv}

A COMPLETE SOLUTION

- Emissions-compliant 168 HP Cummins diesel engine
- 3.5 to 4.0 cu. yard bucket available
- Accepts a wide assortment of attachments to handle many jobs
- Increased width of cab by 20% for operator comfort
- 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, four-wheel, dual circuit sealed wet disc brakes for reliability and long service life
- Torque-proportioning differentials for longer brake and tire life
- Easy access to drains, filters and fittings
- Transmission redesigned with helical gears, reducing noise level and vibration
- Engine cooling system with hydraulic fan for efficient cooling

THE POWER TO PERFORM!

The **70**² loader is a versatile, high productivity wheel loader for a wide range of applications from asphalt and concrete plants to road construction. Featuring a Cummins QSB5.9C diesel engine producing 168 flywheel horsepower, a 3.5 cu. yard bucket, a certified ROPS cab and a host of other features that provide high operating efficiency, ease of maintenance and safety, the **70**² is always ready for the heavy duty jobs.

OPERATOR PRODUCTIVITY AND SAFETY

The **70**²⁴ features a completely redesigned ROPS cab with an operator's compartment that offers unmatched comfort and is designed to maximize efficiency and productivity. The cab is accessible by ladders on both sides, features a gasket-mounted flat tinted glass windshield, has front and rear wipers and includes many other features which contribute to improved safety, visibility and comfort. The **70**²⁴ comes standard with an AM/FM cassette player and can even be ordered with an optional 27,000 BTU air conditioner.



PUTTING THE 702 TO WORK

Like all Kawasaki loaders, the **70**² has a 40-year heritage of strength and reliability. Dual lever hydraulic control with a single lever option and single twist-grip transmission control offer ease of operation.

The **70**² is available with a 3.5 cubic yard bucket with a bolt-on cutting edge. A third spool valve, control lever, linkage and line are available to handle a number of attachments and extend the **70**² s versatility. Other buckets, Quick Couplers and attachments are also available.

The outboard-mounted, four-wheel sealed wet disc brakes are designed for long life and easy access and overhaul. Standard spin-on filters, remote mounted grease fittings and oil drain simplify maintenance. The standard 20.5 x 25-12PR (L2) tires and optional 23.5 x 25-12PR (L2) and (L3) tires use heavy duty three-piece rims for easy servicing in the field.

UNMATCHED SUPPORT

Kawasaki maintains a large inventory of new components to ensure outstanding parts availability and minimal downtime. In addition, a predictive oil analysis program helps eliminate unnecessary maintenance and helps find problems before they occur. Kawasaki also stocks an array of cost-effective rebuilt components.

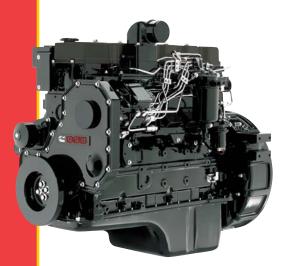


BUILT TO STAY ON THE JOB

Kawasaki loaders are designed with the durability to provide years of service. Backed by a dealer network of heavy equipment experts and a 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

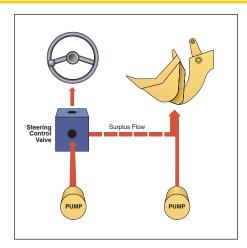


The Kawasaki **70**² means business. It incorporates the best in design and technology, giving your operators the tool they need to get the job done.

Because Kawasaki specializes in the design and manufacture of articulated wheel loaders, you get a machine with a 40-year heritage of successful innovations. The power and productivity that the **70**° brings to the job is a result of that experience.

WORLD-CLASS ENGINES

- 168 HP emissions-compliant Cummins QSB5.9C diesel
- Complies with tough Tier 2 emissions standards
- Engineered for longer service life
- Reliable and fuel efficient
- Extensive distribution system
- 24 volt battery system for reserve power
- Turbocharger with aftercooler



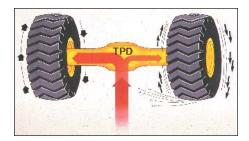
HIGH EFFICIENCY HYDRAULIC SYSTEM

- Dry, reliable
- Cast iron gear pumps
- Energy efficient, steering circuit supplements main
- Easy access to two-spool control valve
- Large oil reservoir keeps oil cooler



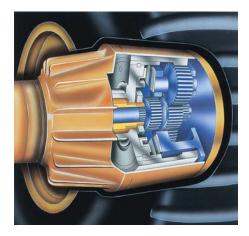
TRANSMISSION

- Automatic transmission selects optimum speed from second to fourth gear
- Single lever control
- Switch activates transmission declutch on right and left brake pedals
- Downshift button speeds cycle times and reduces operator fatique
- · Helical gears reduce noise and vibration



AXLES/BRAKES

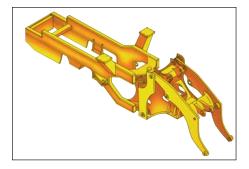
- Heavy-duty torque proportioning differential
- 20.5 x 25-12PR (L-2) tires standard
- 20.5 x 25-12PR (L-3) 23.5 x 25-12PR (L-2, L-3 and radial) tires available
- 650/65R25XLD low profile tires available
- 3-piece rims standard
- Outboard-mounted,four-wheel, dual-circuit wet disc brakes
- Easy maintenance
- High capacity
- Long life





LIFT ARMS/BUCKETS

- Z-linkage
- High breakout force
- · Optional high lift arms available
- 3.5 to 4.0 cu. yard bucket
- Easy loading
- Excellent load retention
- Full assortment of edges and teeth
- Complete array of attachments available
- Bolt-on heel plates extend bucket life
- Bucket leveler and boom kick-out standard



STRONG, RUGGED BOX FRAME

- · Massive center pins and bearings
- High strength loader tower
- Heavy box frame rear chassis

THE COMFORT ZONE



Kawasaki has taken a from-the-ground-up approach to create a cab designed with the operator in mind. The cab focuses on providing the ultimate environment for productivity, comfort and safety. The high visibility, quiet, temperature controlled cab offers the operator ideal surroundings for putting the Kawasaki loader through its paces.

70[™] Features

- Flat glass windows for easy replacement
- · Cab offers easy entry from either side
- Sliding side windows
- Automotive door locks
- Halogen headlights improve nighttime visibility
- Reduced noise level
- Cab interior increased 20% in size for operator comfort
- Telescoping and tilting steering wheel
- Flooring configuration reduces sound levels and allows easy cleaning
- · Increased storage
- · Climate controlled storage box for food & beverage storage

Standard Features

- Air Ride Seat
- · All systems monitored with lights and alarms
- Single twist grip transmission lever redesigned for easy gripping and smoother shifting
- Dual, pilot-assisted hydraulic controls—fingertip control

 • Adjustable wrist rest
- One rearview and two side mirrors
- AM/FM cassette radio, standard
- Rear lights added to ROPS cab
- Viscous isolation-mounted to reduce vibration
- Reduced sound levels
- Personal storage space and coat hook
- 40,000 BTU heater, standard
- · Cold start feature
- Pressurized air control
- Switch activates transmission declutch on both brake pedals
- Front and rear wipers and washers
- Intermittent front wiper

- 27.000 BTU Air Conditioner
- Single lever hydraulics
- Turn signal with 4-way flasher

EASY ACCESS SIMPLIFIES SERVICING

- Engine side covers open wide for optimum access
- · Filters positioned within easy reach
- · Easy access to drains, filters and fittings
- Grease fittings are grouped for easy lubrication
- Readily available Fleetguard and Donaldson filters
- Starters and alternators available through Cummins national distribution network
- 3-piece wheel rims standard for easy field service
- Cooling system engineered to allow easy access to radiator and hydraulic coolers from side compartments
- Ladders on both sides of the machine
- · Pressurized air control reduces dust in cab
- Trunnion grease fittings located near axle
- Sealed universal joints (only require greasing at 2000 hour intervals)



- Electric wiring color-coded and numbered for ease of service
- Deutsch electric connectors throughout wiring harness

OPTIONS

QUICK COUPLER ATTACHMENT

The JRB Quick Coupler, can be used in conjunction with a variety of attachments, including:

- General purpose buckets
- Side dump bucket
- · Construction utility forks
- Utility pallet forks
- · Extendable boom
- Paddle top clamp forks
- Grapple bucket
- Loader rake and loader rake with hydraulic clamps







K-LINK

- On demand reports provide machine location, hours, operating status
- Alarm notification by phone or pager can indicate equipment failure, lowfuel, geo-fence break
- Worldwide satellite coverage
- Customize reports and alerts
- Internet access to all reports and alerts

SINGLE-LEVER Hydraulic Control

- Faster cycle times
- Ease of operation
- Increases operator efficiency



RIDE CONTROL

- Stable load handling
- Reduces operator fatigue
- Cuts vibration and equipment wear
- Improves safety and productivity
- Less spillage
- Faster travel speed



With Ride Control





BUCKET DATA

	A.			Standard Boom		High Lift
K0		7 	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	yd³ (m³)	3.5 (2.7)	3.25 (2.5)	4.0 (3.1)	3.5 (2.7)
	Struck	yd³ (m³)	3.0 (2.3)	2.8 (2.1)	3.5 (2.7)	3.0 (2.3)
Maximum dumpi clearance	ng	ft-in (mm)	9'2 ¹³ / ₁₆ " (2815)	8'11 ⁵ / ₁₆ " (2725)	9 ¹¹ / ₁₆ " (2745)	10'6 ¹ / ₁₆ " (3200)
Dumping reach (to of bucket edge or		ft-in (mm)	3'7 ¹⁵ / ₁₆ " (1090)	3'9 ¹ /2" (1155)	3'9 ¹¹ / ₁₆ " (1160)	3'7 ³ / ₄ " (1110)
Bucket hinge pin	height	ft-in (mm)	12'9 ¹ / ₈ " (3890)	12'9 ¹ / ₈ " (3890)	12'9 ¹ / ₈ " (3890)	14' ¹ /8" (4270)
Digging depth		ft-in (mm)	4 ³ / ₄ " (120)	5 ⁵ / ₁₆ " (135)	4 ³ / ₄ " (120)	4 ³ / ₄ " (120)
Breakout force Ib (kg)		lb (kg)	27,780 (12,600)	30,310 (13,750)	25,530 (11,590)	27,866 (12,640)
Bucket tilt-	at ground level		43.5°	43.5°	43.5°	43°
back angle	at carry position		47.0°	47.0°	47.0°	49°
Overall	Length	ft-in (mm)	24'11 ³ / ₁₆ " (7600)	25'3 ³ / ₄ " (7715)	25'3 ¹ / ₈ " (7700)	25'4 ⁷ /16" (7730)
	Height	ft-in (mm)	10'11 ⁵ / ₁₆ " (3335)	10'11 ⁵ / ₁₆ " (3335)	10'11 ⁵ / ₁₆ " (3335)	10'11 ⁵ / ₁₆ " (3335)
	Width (outside tire)	ft-in (mm)	8'5 ³ / ₄ " (2585)	8'5 ³ / ₄ " (2585)	8'5 ³ / ₄ " (2585)	8'5 ³ / ₄ " (2585)
	Width (outside bucket)	ft-in (mm)	8'9 ¹ / ₈ " (2670)	8'9 ⁵ /8" (2680)	8'9 ¹ / ₈ " (2670)	8'9 ¹ / ₈ " (2670)
Wheel base		ft-in (mm)	10 ⁻¹ / ₈ " (3050)	10' ¹ /8" (3050)	10'1/8" (3050)	10' 1/8" (3050)
Minimum turning radius	at outside bucket	ft-in (mm)	19'10 ³ /8" (6055)	19'11 ¹⁵ / ₁₆ " (6095)	19'11 ³ / ₈ " (6080)	20'1 ¹ / ₄ " (6125)
	at center of outside tire	ft-in (mm)	17'1 ³ /8" (5215)	17'1 ³ / ₈ " (5215)	17'1 ³ /8" (5215)	17'1 ³ / ₈ " (5215)
Minimum ground ft-in clearance (mm)		1'4" (405)	1'4" (405)	1'4" (405)	1'4" (405)	
Full articulation angle degree		40°	40°	40°	40°	
Operating weight Ib		lb (kg)	31,590 (14,330)	31,390 (14,240)	32,210 (14,610)	32,022 (14,525)
Static tipping load	Straight	lb (kg)	26,630 (12,080)	26,850 (12,180)	26,080 (11,830)	22,123 (10,035)
(with ROPS Cab)	Full turn	lb (kg)	22,860 (10,370)	23,080 (10,470)	22,400 (10,160)	18,949 (8595)

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.



OPERATING SPECIFICATIONS

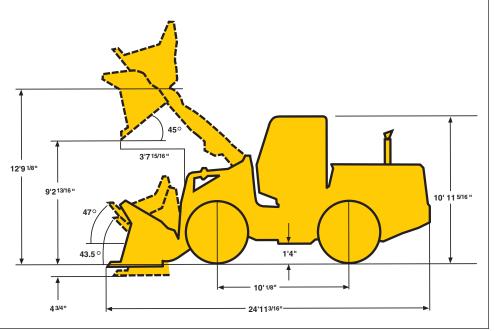
		Operating	Tippi	ng Load		Overall Width	Tread	Vertical	Overal
		Weight	Straight	Full Turn		(Outside Tire)		Dimensions	Length
ROPS Canopy (Instead of ROPS Cab)	lb (kg)	-310 (-140)	-330 (-150)	-290 (-130)	in (mm)				
Remove ROPS Cab (for transport only)	lb (kg)	-1100 (-500)			in (mm)			-10' ¹⁵ / ₁₆ " (-275)	
Remove Optional Counterweight	lb (kg)	-770 (-350)	-1760 (-800)	-1540 (-700)	in (mm)				
Tires: 20.5-25-12PR (L-3)	lb (kg)	+300 (+135)	+220 (+100)	+190 (+85)	in (mm)				
23.5-25-12PR (L-2)	lb (kg)	+1610 (+730)	+1200 (+545)	+1030 (+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)	+2030 (+920)	+1520 (+690)	+1300 (+590)	in (mm)	+2 (+50)	+1 ⁵ /8" (+40)	+2 ³ /8" (+60)	-2 ¹ / ₈ " (-55)
23.5-25-12PR (L-3) with 75% CaCl ₂	lb (kg)	+1800 (+815)	+2690 (+1220)	+2290 (+1040)	in (mm)				
Air conditioner (Deletion)	lb (kg)	-220 (-100)	-240 (-110)	-210 (-95)	in (mm)				
Belly Guard (rear frame)	lb (kg)	+130 (+60)	+120 (+55)	+100 (+45)	in (mm)				

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

Width (outside bucket) $\dots .8'9^{1}/8"$ (2670mm)

Equipped with GSC bucket with bolt on cutting edge

20.5-25-12PR (L-2) Tire and ROPS Cab





OPERATING SPECIFICATIONS

ENGINE			
Make/Model/Fuel Type	Cummins/QSB5.9/Diesel		
Туре	4-cycle, watercooled, in-line direct injection type with turbo charger and air-cooled intercooler		
Net flywheel horsepower	168 HP/2400 RPM		
Max Torque	525 lb/ft. @ 1300 RPM		
Number of cylinders	6		
Bore and stroke	4.02" x 4.72" (102mm x 120mm)		
Total displacement	359 in³ (5890 cm³)		
Alternator	AC24V-1.68kw (70amp)		
Starting motor	24V-7.5kw (10.1 HP)		
Battery	12V-150AH, 2 units		
Governor	All-speed, electrical type		

TORQUE CONVERTER AND TRANSMISSION					
Torque coi	nverter	3 elements, single stage			
Torque sta	II ratio	3.03:1			
Main clutc	hes	Wet hydraulic, multi-disc type			
Cooling m	ethod	Forced circulation type			
Transmiss	ion	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 (7.2 km/hr) 2nd: 7.5 MPH (12.0 km/hr) 3rd: 12.6 MPH (20.3 km/hr) 4th: 23.6 MPH (37.8 km/hr)			
	Reverse	1st: 4.5 MPH (7.2 km/hr) 2nd: 7.5 MPH (12.0 km/hr) 3rd: 12.6 MPH (20.2 km/hr) 4th: 23.5 MPH (37.8 km/hr)			

SYSTEMS CAPACITY				
LOCATION	Gallons	Liters		
Engine (coolant)	11.9	(45.0)		
Fuel tank (diesel fuel)	75.3	(285.0)		
Engine (oil pan)	3.7	(14.0)		
Front axle (gear oil)	13.2	(50.0)		
Rear axle (gear oil)	13.7	(52.0)		
Torque converter and transmission (engine oil)	7.9	(30.0)		
Hydraulic system including tank (hydraulic oil)	44.9	(170.0)		

HYDRAU	JLIC AN	D STEERING SYSTEM
Steering type		Articulated frame steering
Steering mech	nanism	Hydraulic power steering unit, pilot operated type
Lift (boom) cy	linder	Two (2) double-acting piston type: 5.5" x 29.7" (140mm x 754mm)
Tilt (bucket) c	ylinder	One (1) double-acting piston type: 6.3" x 20.1" (160mm x 511mm)
Steering cyline	der	Two (2) double-acting piston type: 3.1" x 15.0" (80mm x 380mm)
Main oil pump)	Gear type: 17.7 GPM @ 2400 RPM (67 LPM @ 2400 RPM)
Steering oil pu	ımp	Gear type: 43.1 GPM @ 2400 RPM (163 LPM @ 2400 RPM)
Pilot oil pump		Gear type: 17.7 GPM @ 2400 RPM (67 LPM @ 2400 RPM)
Relief valve	Loading	3000 psi (210 kg/cm²)
set pressure	Steering	3000 psi (210 kg/cm²)
HYDRAULIC C	YCLE TIME*	
Lifting time (a	t full load)	6.2 sec.
Lowering time	(empty)	3.1 sec.
Bucket dumpi	ng time	1.2 sec.
TOTAL		10.5 sec.

^{*} Measured in accordance with SAE J732C

AXL	E SYSTEM	
Drive s	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-2) (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		±12° (total 24°)

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 type. Meets MSHA requirements.	



EQUIPMENT DATA

STANDARD EQUIPMENT

Air Cleaner

(Double Element Donaldson)

Alarms (Audible):

Brake Oil Pressure

Engine Oil Pressure

Alarms (Visual):

Air Filter

Battery Discharge

Brake Oil Pressure

Converter Oil Temperature

Engine Oil Pressure

Engine Coolant Temperature

Parking Brake

Alternator (70 amp)

AM/FM Cassette Radio

Batteries: 12V-150AH (2 units)

Bellyguard, Engine

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

Boom Kickout

Coat Hook

Cold Start Aid

Converter, 12V/10Amp

dash outlet

Cup Holder

Downshift Button

Drawbar

Electrical System (24 volt)

Engine Coolant Expansion Tank

Fenders (Front and Rear)

Gauges:

Converter Oil Temperature

Engine Coolant Temperature

Fuel Level

Hour Meter

Hydraulic Oil Level

Tachometer

Heater/Pressurizer

(40,000 BTU)

Hoodsides (Hinged)

Horn (Electric)

Hydraulic Fan (Blower)

Indicators:

High Beam

Parking Brake

Transmission Declutch

Transmission Shift Monitor

Working Light

Linkage (Z-type, Sealed)

Lights:

2 Headlights (Halogen)

Working Lights

4 Front

4 Rear

2 Stop/Tail

2 Backup

Muffler

Neutral Safety Start

Operator's Manual Box

Radiator: Heavy Duty Plate Fin Type

Radiator Grille

Reverse Alarm

ROPS Cab: Enclosed cab with sound suppression, front lights, front and rear wipers

and washers, one rear view and two side mirrors, tinted glass slide down windows.

and rear lights

Safety Articulation Locking Bar

Seat. Air Ride

Seat Belt, Retractable, 3" wide

Shift Control Unit for

Automatic Shift

Telescopic and Tilt Steering

Wheel

Torque Proportioning

Differentials

Transmission Declutch

Selector Switch

Vandalism Protection

Wrist Rest, Adjustable

OPTIONAL EQUIPMENT

Air Conditioner (R134) Refrigerant

Belly Guard, Hinged

Transmission Bolt-on Cutting Edge Segments

Bucket Teeth

Counterweight, Bucket

Counterweight, Logging **Cushion Dump Valve Emergency Steering Engine Pre-Cleaner**

High Lift Arm Hydraulic System, 3 Spool Valve

K-LINK

No Spin Differential Quick Coupler and Attachments

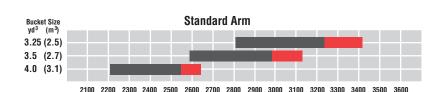
Radiator, Wide Fin Spacing Ride Control

ROPS Canopy

Single Lever Hydraulic Control Turn Signal With Four-Way

Flasher

BUCKET SELECTION CHARTS



Material Density lbs/yd3 Bucket Fill

KAWASAKI LOADERS

More Than A Machine, A Complete Solution

Kawasaki Construction Machinery Corp. of America, a division of Kawasaki Heavy Industries, is a leading supplier of a full range of high quality wheel loaders. In fact, Kawasaki is the oldest on-going manufacturer of articulated, rubbertired wheel loaders in the world. Since 1962, Kawasaki wheel loaders have continuously evolved to bring you the best in equipment and support services, backed by a carefully selected dealer network.

Kawasaki articulated wheel loaders incorporate innovative design features coupled with extensive knowledge and experience gained from real-world applications. Kawasaki pioneered Z-Link design to provide unmatched utility, high breakout force and efficiency in its machines. Powered by proven emissions-compliant Cummins diesel engines, durability and serviceability are designed into every Kawasaki loader.

Kawasaki loaders are assembled at the company's modern facilities in Newnan, GA. Service and support operations are headquartered in Kennesaw, GA.

A state-of-the-art parts distribution system links dealers with the main parts warehouse, allowing them to order parts directly. Qualified craftsmen rebuild components for all Kawasaki models at our fully-equipped rebuild center, making component exchange easier and







faster. An independent oil analysis program allows monitoring of critical systems to reduce unscheduled downtime.

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.



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Part #70ZV Broch 08-05