

 **Kawasaki**

**42ZV-2**

45HP | .78 y<sup>3</sup> BUCKET  
CAPACITY

**45ZV-2**

61HP | 1.18 y<sup>3</sup> BUCKET  
CAPACITY





## RUGGED AND DEPENDABLE

### 42ZV-2

- ▶ Wrap-around counterweight lowers the center of gravity increasing stability
- ▶ Universal Quick Coupler allows a wide range of attachments
- ▶ Interchangeable with skid steer attachments
- ▶ Limited Slip Differentials provide additional traction for applications requiring extreme traction control
- ▶ Bucket Leveler
- ▶ Reliable Kubota Engines, supported locally
- ▶ Third spool hydraulics, standard
- ▶ High Ground Speed, standard

### 45ZV-2

- ▶ Wrap-around counterweight lowers the center of gravity increasing stability
- ▶ Eco Mode provides a fuel efficient setting resulting in better fuel economy without affecting productivity
- ▶ Electronically controlled HST stabilizes engine speeds providing smooth acceleration and deceleration
- ▶ Manually Locking Front Differential, option
- ▶ Bucket Leveler
- ▶ Reliable Kubota Engines, supported locally
- ▶ Third spool hydraulics, standard
- ▶ Easy access to cab on both sides of machine
- ▶ High Ground Speed, standard



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.

Kawasaki provides a totally focused approach to support your business. Kawasaki offers a full range of wheel loaders to handle virtually any task. Kawasaki engineers work with end users all over the country to access and review their wheel loader needs. With inhouse special application engineers, Kawasaki is capable of responding to new industry demands quickly with comprehensive solutions.

Kawasaki designs and builds world-class wheel loaders with an established reputation for quality and reliability. The sales and service operations are headquartered in Kennesaw, Georgia, near Atlanta. Fabrication and machine assembly takes place at the company's Newnan, Georgia plant.

#### SERVING THE NORTH AMERICAN MARKET SINCE 1978

- 15 models, 45 HP to 720 HP
- Comprehensive support services
- Unmatched parts availability
- Cost-effective component exchange program
- Predictive maintenance programs
- Extensive dealer network covering the North American Market



# POWER AND PERFORMANCE PROVIDE UNMATCHED PRODUCTIVITY

## SAFETY

- ROPS/FOPS Cab provides a safe operator environment (Optional)
- Rubber mounted cab reduces noise and vibration (Optional)
- Automatic Parking Brake — Parking brake automatically engages when the engine stops
- Shift Lever Lock prevents accidental lever engagement while the engine is running **4**
- Locking Fuel Tank
- Locking Engine Cover
- Neutral Engine Start **5**
- Cold Weather Start
- Turn Signals, standard

## OPERATOR COMFORT

- Easy access to cab on both sides of machine **1**
- Easy-read monitor provides operating data at a glance
- Excellent visibility — Pillar-less design offers unobstructed visibility **2**
- Eco Mode, Reduces fuel consumption (45ZV-2 Std.) **3**
- Rubber mounted cab reduces noise and vibration (Optional)
- Suspension Seats
- Mirrors, Wipers
- Coat Hook
- Cup Holder
- Radio Ready





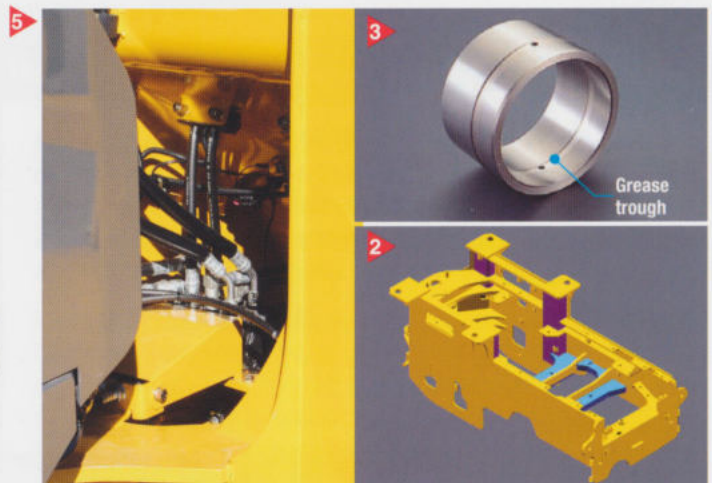
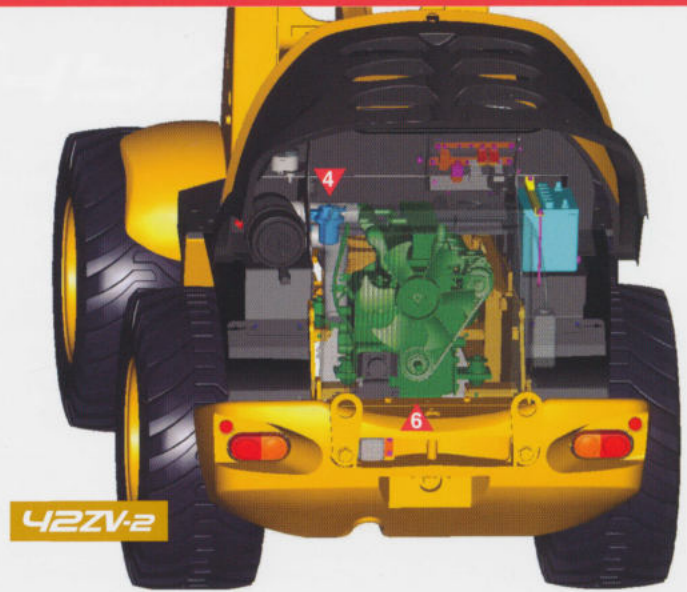
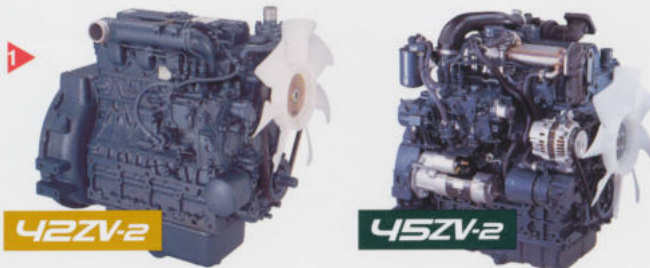
# ACCESSIBILITY, SERVICEABILITY, DURABILITY

## ACCESSIBILITY/SERVICEABILITY

- Easy access engine compartment — Pneumatic “One touch” access
- Easy access to filters, drains and fittings
- Remote rear axle trunnion grease application

## DURABILITY

- Tier 4 Interim Emissions Compliant Kubota Engine **1**
- Heavy box frame **2**
- Innovative HN Bushing technology extends lubrication intervals **3**
- Fuel filter has built-in water separator **4**
- Limited Slip Differentials provide additional traction for applications requiring extreme traction control (42ZV-2 Standard)
- Manually Locking Front Differential (45ZV-2 Option)
- Easy access to filters, drains, and fittings **5**
- Side-by-Side Aluminum radiator and aluminum oil cooler provide easy access for maintenance and cleaning **6**



Quick Coupler and Third Spool Hydraulics are standard on both the 42ZV-2 and 45ZV-2. The 42ZV-2 features a universal coupler to utilize skid-steer attachments.



## 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.

*Kawasaki and their dealer organization offer comprehensive support and service programs designed to keep you on the job.*



# 42ZV-2 / 45ZV-2

## OPERATING SPECIFICATIONS

ENGINE		
	42ZV-2	45ZV-2
Gross Power (SAE J1995)	45.7 HP/2400 RPM	63 HP/2200 RPM
Net Power (SAE J1349)	45 HP/2400 RPM	61 HP/2200 RPM
Make/Model/Fuel Type	Kubota V2403-MDI	Kubota V3307-DI-TI
Type	4-cycle, watercooled, in-line direct injection	4-cycle, watercooled, in-line direct injection
Number of cylinders	4	4
Bore and stroke	3.43" x 4.03" (87mm x 102.4mm)	3.70" x 4.72" (94mm x 120mm)
Total displacement	148 in <sup>3</sup> (2.4 L)	203 in <sup>3</sup> (3.3 L)
Alternator	AC12V-20kw (60A)	AC12V-30kw (80A)
Battery	12V-52AH (490 CCA), 1 unit	12V-65AH (620 CCA), 1 unit

TRANSMISSION			
		42ZV-2	45ZV-2
Type		Electrically controlled hydrostatic transmission	Electrically controlled hydrostatic transmission
Pump		Variable load sensing bi-directional piston-type	Variable load sensing bi-directional piston-type
Motor		Automatic piston-type	Automatic piston-type
Cooling method		Air-to-oil cooled	Air-to-oil cooled
Control method		Fingertip operated single transmission control lever	Fingertip operated single transmission control lever
Speeds	Forward	10.5 MPH (17 km/hr)	1st: 7.4 MPH (12 km/hr) 2nd: 21.1 MPH (34 km/hr)
	Reverse	10.5 MPH (17 km/hr)	1st: 7.4 MPH (12 km/hr) 2nd: 21.1 MPH (34 km/hr)

SYSTEMS CAPACITY				
	42ZV-2		45ZV-2	
LOCATION	Gallons	Liters	Gallons	Liters
Engine (coolant)	1.7	6.5	2.6	10
Fuel tank (diesel fuel)	11.7	45	21.7	82
Engine oil (oil pan)	2.0	7.5	3.0	11
Front axle (gear oil)	1.2	4.5	1.6	6.2
Rear axle (gear oil)	1.2	4.5	1.7	6.4
Transmission & Hydraulic System (hydraulic oil)	9.9	38	19.3	73
Reduction gear box (gear oil)	0.5	2.0	0.3	1.0

HYDRAULIC AND STEERING SYSTEM			
		42ZV-2	45ZV-2
Steering type		Articulated frame steering	Articulated frame steering
Steering mechanism		Hydraulic power steering	Hydraulic power steering
Lift (boom) cylinder		Two (2) double-acting piston type: 2.76" x 20.91" (70mm x 531mm)	Two (2) double-acting piston type: 3.035" x 21.73" (85mm x 552mm)
Tilt (bucket) cylinder		One (1) double-acting piston type: 2.76" x 17.72" (70mm x 450mm)	One (1) double-acting piston type: 3.15" x 17.99" (80mm x 457mm)
Steering cylinder		One (1) double-acting piston type: 2.36" x 8.98" (60mm x 228mm)	Two (2) double-acting piston type: 1.77" x 13.39" (45mm x 340mm)
Main/steering oil pump		Gear type: 14.0 GPM @ 2400 RPM (52.7 LPM @ 2400 RPM)	Gear type: 21.0 GPM @ 2200 RPM (80.3 LPM @ 2200 RPM)
Relief valve: set pressure	Main	3000 PSI (210 kgf/cm <sup>2</sup> )	3000 PSI (210 kgf/cm <sup>2</sup> )
	Steering	2500 PSI (175 kgf/cm <sup>2</sup> )	2500 PSI (175 kgf/cm <sup>2</sup> )
HYDRAULIC CYCLE TIME*			
Lifting time (at full load)		4.5 sec.	5.0 sec.
Lowering time (empty)		3.0 sec.	3.5 sec.
Bucket dumping time		1.0 sec.	1.0 sec.
TOTAL		8.5 sec.	9.5 sec.



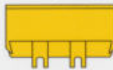
\* Measured in accordance with SAE J732C

AXLE SYSTEM		
	42ZV-2	45ZV-2
Drive system	4-wheel drive	4-wheel drive
Front and rear axle	Semi-floating type	Semi-floating type
Tires	15.5/60-18	17.5/65-20
Reduction and differential gear	Spiral bevel/gear, 1 stage reduction, limited slip.	Spiral bevel/gear, 1 stage reduction torque proportioning
Final reduction gear	Internal planetary gear inboard mounted	Internal planetary gear inboard mounted,
Oscillation angle	±8	±11

BRAKE SYSTEM		
	42ZV-2	45ZV-2
Service/Parking brakes	Internal wet disc in reduction gear box	Internal wet disc in front axle

# 42ZV-2 / 45ZV-2

## BUCKET DATA

			42ZV-2		45ZV-2	
			Standard Boom/General Purpose			
			Straight Edge With Bolt-on Cutting Edge 		Straight Edge With Bolt-on Cutting Edge 	
Capacity	Heaped	yd <sup>3</sup> (m <sup>3</sup> )	.78 (.60)	1.0 (.76)	1.18 (.90)	1.0 (.76)
	Struck	yd <sup>3</sup> (m <sup>3</sup> )	.68 (.52)	.81 (.62)	.95 (.73)	.81 (.62)
Maximum dumping clearance		ft-in (mm)	7' 9 <sup>3</sup> / <sub>4</sub> " (2,380)	7' 5 <sup>3</sup> / <sub>4</sub> " (2,280)	7' 10" (2,390)	7' 9 <sup>7</sup> / <sub>8</sub> " (2,385)
Dumping reach (to front of bucket edge or tooth)		ft-in (mm)	3' 3 <sup>1</sup> / <sub>4</sub> " (995)	3' 7 <sup>1</sup> / <sub>4</sub> " (1,100)	3' 4" (990)	3' 4" (1,015)
Bucket hinge pin height		ft-in (mm)	10' 3 <sup>5</sup> / <sub>8</sub> " (3,140)	10' 3 <sup>5</sup> / <sub>8</sub> " (3,140)	10' 4 <sup>3</sup> / <sub>8</sub> " (3,160)	10' 4 <sup>3</sup> / <sub>8</sub> " (3,160)
Digging depth		ft-in (mm)	2" (50)	2" (50)	2.65" (65)	2" (50)
Breakout force		lb (kg)	5,500 (2,515)	4,550 (2,065)	8,280 (3,755)	7,475 (3,390)
Bucket tilt-back angle	at ground level		47°	47°	41°	41°
	at carry position		55°	55°	49°	49°
Overall	Length	ft-in (mm)	16' 3" (4,955)	16' 9 <sup>1</sup> / <sub>8</sub> " (5,110)	17' 8" (5,380)	17' 9" (5,410)
	Height	ft-in (mm)	8' 5" (2,565)	8' 5" (2,565)	9' 4 <sup>5</sup> / <sub>8</sub> " (2,860)	9' 4 <sup>5</sup> / <sub>8</sub> " (2,860)
	Width (outside tire)	ft-in (mm)	5' 5 <sup>3</sup> / <sub>8</sub> " (1,690)	5' 5 <sup>3</sup> / <sub>8</sub> " (1,690)	6' 3 <sup>5</sup> / <sub>8</sub> " (1,920)	6' 3 <sup>5</sup> / <sub>8</sub> " (1,920)
	Width (outside bucket)	ft-in (mm)	5' 6 <sup>1</sup> / <sub>2</sub> " (1,690)	5' 6 <sup>1</sup> / <sub>2</sub> " (1,690)	6' 5 <sup>5</sup> / <sub>16</sub> " (1,990)	6' 5 <sup>5</sup> / <sub>16</sub> " (1,990)
Wheel base		ft-in (mm)	6' 3 <sup>1</sup> / <sub>16</sub> " (1,850)	6' 3 <sup>1</sup> / <sub>16</sub> " (1,850)	7' 2 <sup>5</sup> / <sub>8</sub> " (2,200)	7' 2 <sup>5</sup> / <sub>8</sub> " (2,200)
Minimum turning radius	at outside bucket	ft-in (mm)	12' 8 <sup>3</sup> / <sub>8</sub> " (3,870)	12' 11 <sup>1</sup> / <sub>2</sub> " (3,950)	14' 10 <sup>3</sup> / <sub>4</sub> " (4,540)	14' 11 <sup>1</sup> / <sub>8</sub> " (4,550)
	at center of outside tire	ft-in (mm)	10' 3" (3,125)	10' 3" (3,125)	12' 5 <sup>3</sup> / <sub>8</sub> " (3,795)	12' 5 <sup>3</sup> / <sub>8</sub> " (3,795)
Minimum ground clearance		ft-in (mm)	12" (304)	12" (304)	13 <sup>3</sup> / <sub>8</sub> " (340)	13 <sup>3</sup> / <sub>8</sub> " (340)
Full articulation angle		degree	41°	41°	40°	40°
Operating weight (with ROPS Cab)		lb (kg)	9,250 (4,195)	9,510 (4,315)	12,220 (5,540)	12,435 (5,640)
Static Tipping Load (with ROPS cab)	Straight	lb (kg)	5,840 (2,650)	5,445 (2,470)	8,470 (3,840)	8,700 (3,945)
	Full turn	lb (kg)	4,760 (2,160)	4,400 (1,995)	7,170 (3,250)	7,320 (3,320)

The weight and load figures include counterweight, coupler, GP Bucket, 15.5/60-18 tires (42ZV-2), 17.5/65-20 (45ZV-2) tires, enclosed ROPS Cab, full fuel tank and operator.

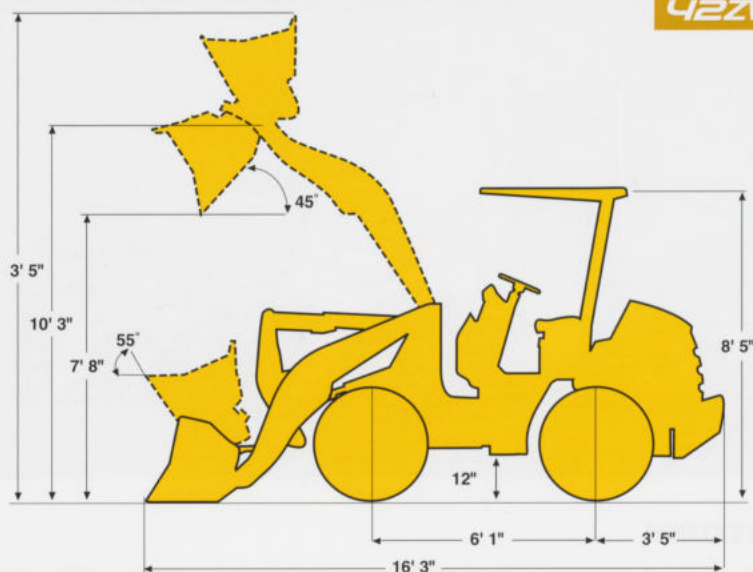
Materials and specifications are subject to change without notice and without obligation on the part of the manufacturer. The specifications supplied, while believed to be completely reliable, are not to be taken as warranty for which we assume legal responsibility.



# 42ZV-2 / 45ZV-2

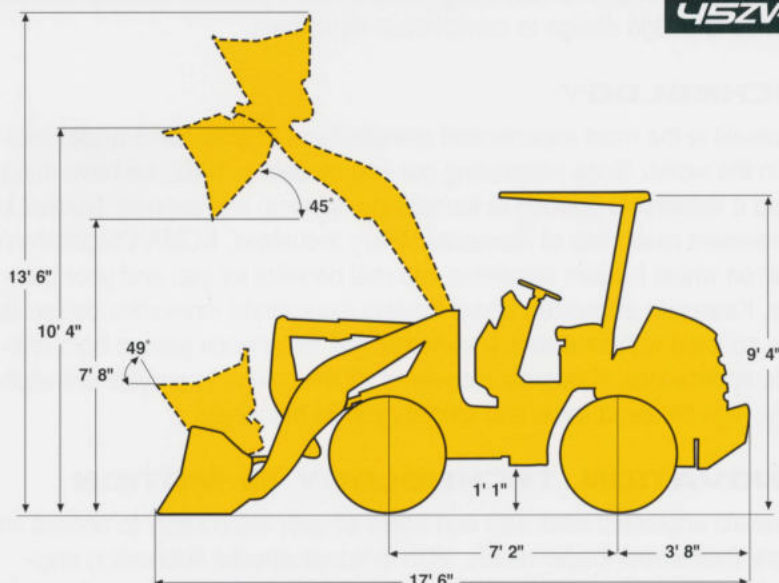
## OPERATING SPECS

Tread ..... 4'1<sup>5</sup>/<sub>8</sub>" (1,260mm)  
 Width (outside tire) ..... 5'5<sup>3</sup>/<sub>8</sub>" (1,660mm)  
 Width (outside bucket) ..... 5'6<sup>1</sup>/<sub>2</sub>" (1,690mm)  
 Equipped with GSC bucket with bolt on cutting edge  
 15.5/60-18 tires



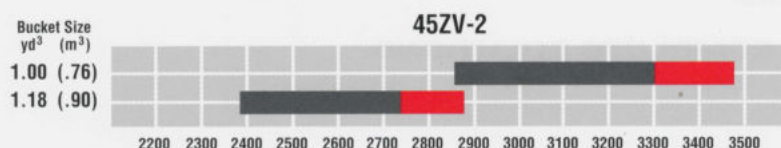
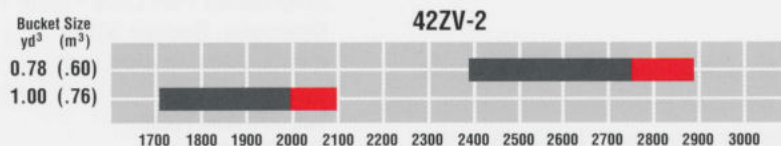
42ZV-2

Tread ..... 4'9<sup>7</sup>/<sub>8</sub>" (1,470mm)  
 Width (outside tire) ..... 6'3<sup>5</sup>/<sub>8</sub>" (1,920mm)  
 Width (outside bucket) ..... 6'5<sup>5</sup>/<sub>16</sub>" (1,990mm)  
 Equipped with GSC bucket with bolt on cutting edge  
 17.5/65-20 tires




45ZV-2

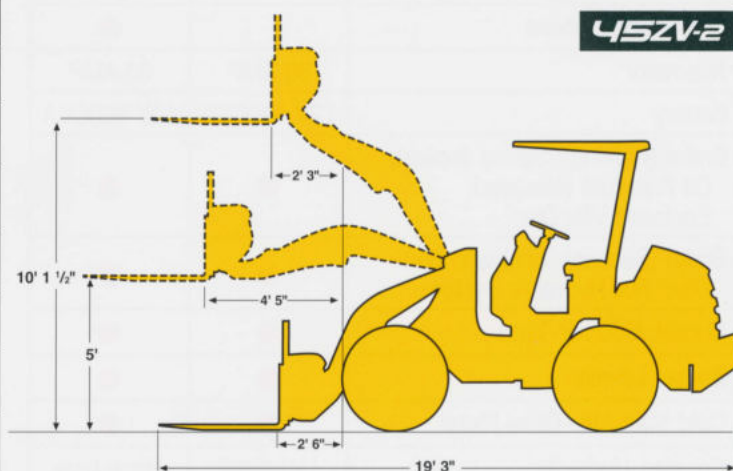
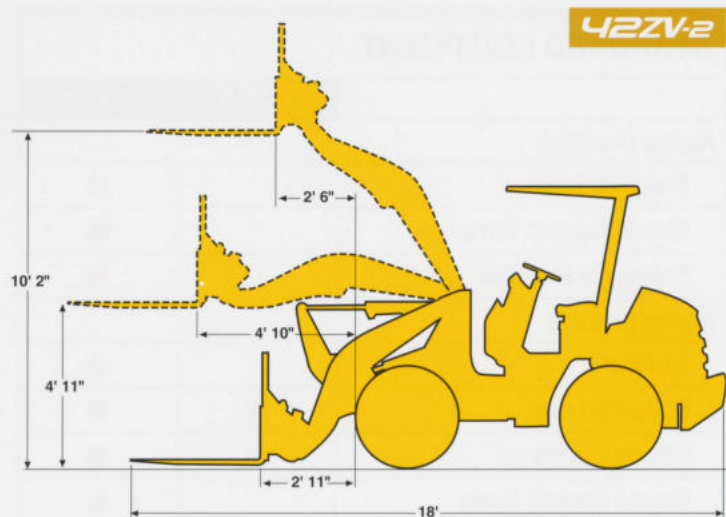
## BUCKET SELECTION CHARTS



# 42ZV-2 / 45ZV-2

## FORK DATA

		42ZV-2	45ZV-2
Fork Tine Length	ft-in (mm)	48" (1,219)	48" (1,219)
Reach @ Ground Level	ft-in (mm)	2' 11" (895)	2' 6" (755)
Maximum Reach	ft-in (mm)	4' 10" (1,475)	4' 5" (1,340)
Reach @ Max Hinge Pin Height	ft-in (mm)	2' 6" (750)	2' 3" (680)
Fork Height @ Max Reach	ft-in (mm)	4' 11" (1,505)	5' (1,530)
Fork Height @ Max Hinge Pin Height	ft-in (mm)	10' 2" (3,105)	10' 1 1/2" (3,090)
Straight Tip Load with Level Arms and Fork (load centered @ 24")	lb (kg)	4,350 (1,975)	6,280 (2,850)
Full Turn Tip Load with Level Arms and Fork (load centered @ 24")	lb (kg)	3,570 (1,620)	5,310 (2,410)
Max Operating Load	lb (kg)	2,160 (980)	3,240 (1,470)
Fork Attachment Weight	lb (kg)	359 (163)	685 (310)
Operating Weight	lb (kg)	8,960 (4,065)	12,100 (5,490)
Minimum turning radius (at outside tire)	ft-in (mm)	13' 8" (4,165)	14' 10" (4,520)
Overall	Length	ft-in (mm)	18' (5,475)
	Height	ft-in (mm)	8' 5" (2,565)
	Width (outside tire)	ft-in (mm)	5' 5 3/8" (1,690)



The weight and load figures include counterweight, coupler, 48" forks, 15.5/60-18 tires (42ZV-2), 17.5/65-20 (45ZV-2) tires, enclosed ROPS Cab, full fuel tank, and operator.

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# 42ZV-2 / 45ZV-2

## EQUIPMENT DATA

### STANDARD EQUIPMENT

	42ZV-2	45ZV-2
Alarms (Audible):		
Brake Oil Level		●
Engine Coolant Temp		●
Engine Oil Pressure		●
Alarms (Visual):		
Air Filter		●
Brake Oil Level	●	●
Battery Discharge	●	●
Engine Coolant Temp		●
Engine Oil Pressure	●	●
HST Warning		●
Machine Stop		●
Machine Service		●
Alternator	60 AMP	80 AMP
Battery	12V 490CCA	12V 620CCA
Brake (Parking): Spring applied; Oil Pressure Released; Enclosed Wet Disc	●	●
Brake (Service): Enclosed Wet Disc; Full Hydraulic System	●	●
Bucket, Coupler-Type	●	●
Bucket Leveler	●	●
Cold Start Aid—Glow Plugs	●	●
Coupler, Hydraulic	Universal	Hook-type
Counterweight	●	●
Drawbar	●	●
Easy Clean Floor	●	●
Engine Fuel Filter w/Water Separator	●	●
Engine Coolant Reservoir	●	●
Fenders	●	●
Gauges		
Engine Coolant Temp	●	●
Fuel	●	●
Hourmeter	●	●
Hydraulic Oil Level, Sight	●	●
Horn, Electric	●	●
Hydraulic System, 3-Spool Valve	●	●

### STANDARD EQUIPMENT, CONT.

	42ZV-2	45ZV-2
Inching Pedal Function	●	●
Indicators:		
Clearance Light		●
Engine Pre-heater	●	●
Forward/Reverse	●	●
High Beam		●
Parking Brake	●	●
Turn Signals	●	●
Working Light (Opt Equipment)		●
Lifting Eyes	●	●
Limited Slip Differentials (F&R)	●	
Linkage (Z-type, sealed)	●	●
Lights: (2) Headlights (2) Turn Signals (Front) (2) Stop/Tail/Turn Lights (1) Backup	●	●
Neutral Safety Start	●	●
Radiator, Side-by-Side w/Oil Cooler	●	●
Reverse Alarm	●	●
ROPS/FOPS Canopy	●	●
Safety Articulation Locking Bar	●	●
Seat, Adjustable Suspension	●	●
Seat Belt	●	●
Shift Lever Lock	●	●
Vandalism Protection	●	●

### OPTIONAL EQUIPMENT

	42ZV-2	45ZV-2
HVAC (Heat, Vent, A/C)	●	●
Differentials, Manually Locking, Front		●
48" x 48" Pallet Forks	Universal	Hook-type
Heater Only	●	●
ROPS/FOPS Cab	●	●
Mechanical Coupler	●	●
Radiator Dust Shield	●	●
Solid Tires	●	●
Delete Standard Bucket	●	●



## HISTORY | TECHNOLOGY | INNOVATION



### HISTORY

KCMA's parent company, Kawasaki Heavy Industries, has over 100 years of experience providing technology solutions. Kawasaki Heavy Industries is a global supplier of innovative engineering with a portfolio ranging from jet turbines to bridge design to construction equipment.

### TECHNOLOGY

Kawasaki is the most experienced manufacturer of articulated wheel loaders in the world. Since introducing our first models in 1962, we have maintained a leadership position in technology, service, and support. Backed by the massive resources of Kawasaki Heavy Industries, KCMA Corporation's focus on wheel loaders translates into real benefits for you and your business. 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.

### INNOVATION, TECHNOLOGY IN MOTION

Kawasaki engineers work with end users all over the country to access and review their wheel loader needs. With in-house special application engineers, Kawasaki is capable of responding to new industry demands quickly with comprehensive solutions.

Kawasaki operates its own rebuild center. This fully equipped facility is staffed by skilled technicians with the in-depth knowledge and specialized equipment.

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

**KAWASAKI. ONE FOCUS. COMPLETE SOLUTIONS.**

**KCM**  
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