

# Kubota



## KUBOTA WHEEL LOADERS

# R

## R420S/R520S

Agile, powerful, and ultra-versatile, our compact wheel loaders deliver optimal performance across a wide range of applications.



\*This information is sourced from overseas and may not necessarily apply locally. It is essential that you confirm specifications and other information with your local Kubota dealer.

**T4**  
Interim  
TIER



# Backfilling, dozing, grappling, loading, plowing, scraping—our multi-functional, compact wheel loaders can handle it all.

Compact in size, but not in strength. Kubota wheel loaders can take on the toughest construction, industrial, and agricultural jobs. Features such as quick couplers and auxiliary hydraulics enable our loaders to operate a variety of attachments. Fully articulated steering and compact size allow for easy navigation of tight spaces. An oscillating body and long wheel base means superior stability and strong traction on tough terrain. Not to mention high and long dumping clearance, unobstructed visibility, low sound level, and more. The Kubota R420S and R520S wheel loaders can do it all.



KUBOTA WHEEL LOADERS  
**R420S/R520S**





CONSTRUCTION



NURSERY, LANDSCAPING



GOLF COURSE



RECYCLING

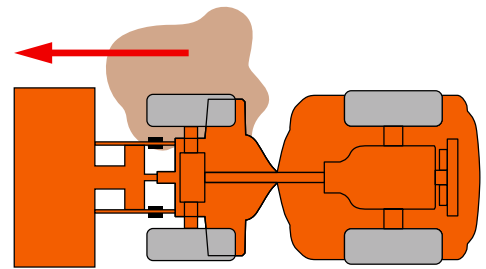
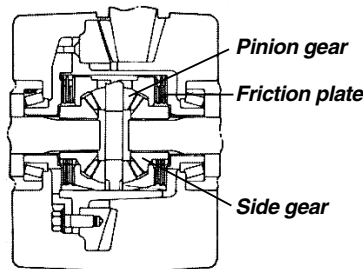


INDUSTRIAL & COMMERCIAL

# Limited Slip Differential

100% of available power to both drive wheels.

Kubota's 4-wheel drive lets you outmuscle challenging terrain, such as mud, sand, and snow. When loose or soft terrain causes one front wheel to lose its grip, the Limited Slip Differential transfers that wheel's power to the opposite wheel to restore traction.



## Superior lifting capacity

A strong feature that provides smooth lifting and dumping of heavy loads into truck beds.

## Clean-running Kubota Engine

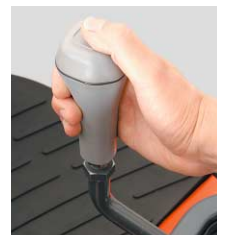
Complies with Interim Tier IV!

Powerful and dependable, the R420S and R520S diesel engine delivers superior horsepower and performance. It offers low noise and vibration levels, exceptional fuel efficiency, and complies with the U.S. EPA's 2008 interim Tier IV emissions regulations.



## Load Sensing Transmission (LST)

To operate more efficiently, this innovative feature enables our wheel loaders to automatically shift from high speed/low torque to low speed/high torque as load conditions vary. For optimal operation in tight spaces, the travel speed limiter reduces maximum travel speed with just a touch of a button, while maintaining full performance of the auxiliary hydraulics.



## Highest dumping clearance

For easy dumping, even into trucks with high beds, the Kubota R420S and R520S have the highest dumping clearance in their class.

## Auxiliary hydraulics—a standard feature

With the hydraulic valve and the control lever built-in on both our models, you'll save time and money whenever you need to hook up a hydraulically operated attachment.







**Versatile wheel loaders that do all the thinking and working for you, even in the most challenging applications.**

#### **Versatile 60A alternator**

For the ultimate in versatility, a 60A alternator provides ample power for the rotating safety lights (optional), as well as the cabin lights of either model.

#### **Rear attachment capability**

Unlike most of our competitors, the Kubota R420S and R520S offer greater versatility with auxiliary hydraulics plumbed to both front and rear, enabling you to attach a backhoe whenever your job demands it.

#### **Lower sound and vibration**

To enhance operator comfort, both models utilize a new engine mount design, a helical gear, and an F-shaped fan to significantly reduce overall noise and vibration.







### Electric shuttle shifting

Increase production with on-the-fly shifting. Mounted on the steering column, this timesaving, labor-reducing feature lets you shift from forward to reverse to forward without ever clutching or braking.



### Articulation and frame oscillation

For greater stability and more comfort when operating on rough terrain, a unique center-type joint allows for 8° of frame oscillation and 40° of articulation in either direction. Plus, the heavy-duty components ensure long life operation.



### Fully adjustable suspension seat

Since every operator's weight and ideal sitting position varies, we created a seat that easily adjusts to provide a high level of comfort to a wide range of drivers. Our seat adjusts according to the operator's weight, plus has hip support and reclines. And, because safety is always a priority, there's an enclosed, retractable safety belt.



### Hanging-style foot pedals

For increased foot space and a cleaner floorboard appearance, our wheel loaders are equipped with hanging-style foot pedals.



### ROPS/FOPS cab and canopy

You'll work confidently and with peace of mind knowing you're protected by our Roll-Over Protective Structure and Falling Object Protective Structure. Forged and attached at the Kubota factory, both the ROPS and FOPS models meet the strictest ISO and SAE standards.

### Automatic parking brake

This safety feature automatically engages the parking brake whenever the engine is turned off. Particularly useful when our wheel loaders are parked on steep slopes or transported by truck.



### Exceptional serviceability

From simple daily maintenance to more complex repairs, a lockable, wide-opening, flip-up engine cover provides easy access to most areas of the wheel loader's engine.



### Safety Starting System

To prevent mishaps, our Safety Start System will not allow the engine to start until the electric shuttle shift is in neutral and the parking brake is applied.

### Additional R20S-Series Features

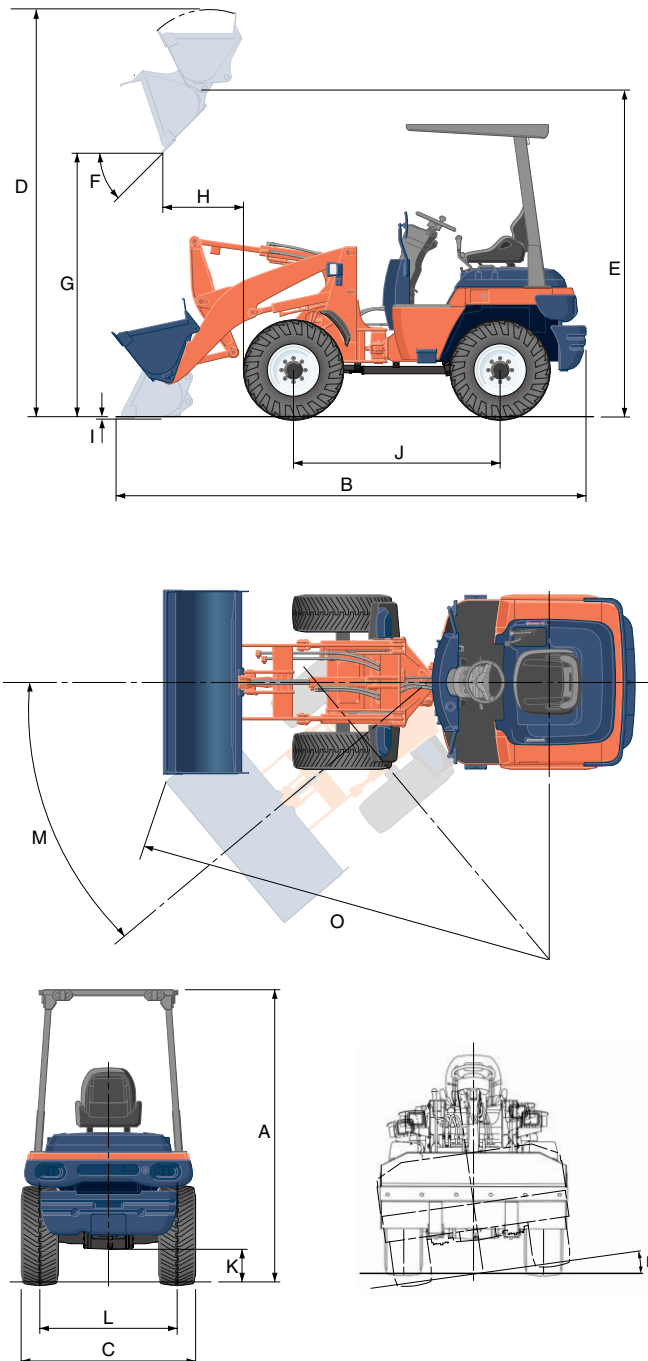
- Electric Parking Brake Switch
- Hydraulic Plumbed for Rear attachments
- Either Side Operator Entry/Exit
- Internal Wet Disc Brakes
- Wide Industrial Tires
- Dual Inching Brake Pedals
- One Key Locking System
- Easy Checker Instrument Panel
- Lockable Fuel Doors
- Lockable Flip-up Engine Cover
- Quieter F-Type Engine Fan
- Extra Access Engine Compartment

- Insulated Engine Compartment
- Low Vibration Engine Mounts
- Dual Element Air Cleaner
- Oil bath disk brakes
- Dynamic transmission brake

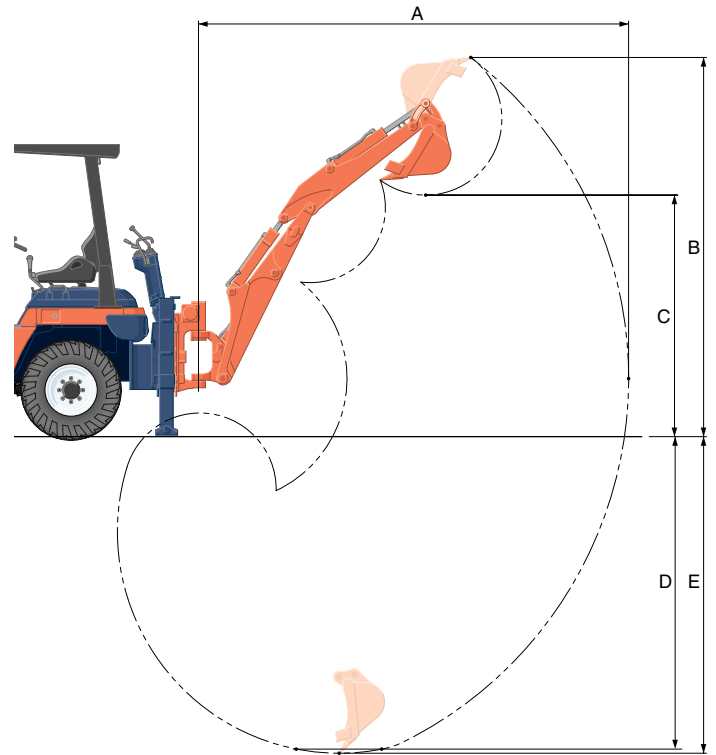
### R20S-Series Safety Features

- OSHA Approved ROPS/FOPS Canopy
- Retractable Seat Belt
- Safety Starting System
- Front Side Operating Lights
- Front and Rear Turn Signal/Brake Lights
- Control Lever Locks

### ■ R20S-SERIES DIMENSIONS



### ■ BACKHOE DIMENSIONS



## R20S-SERIES SPECIFICATIONS

	MODEL	ROPS/FOPS	R420S	R520S
			2-Post Canopy	2-Post Canopy
ENGINE	MAKE & MODEL		Kubota D1503-M-T-E3	Kubota V2203-M-E3
	TYPE		Liquid cooled, 3-Cylinder Diesel	Liquid cooled, 4-Cylinder Diesel
	HORSEPOWER (SAEJ 1995 gross)		41.2 @ 2,600 rpm	46.0 @ 2,600 rpm
	(SAEJ 1349 net)		39.0 @ 2,600 rpm	43.8 @ 2,600 rpm
	DISPLACEMENT		1,497 cc	2,197 cc
	TURBOCHARGER		YES	NO
E-TVCS		YES	YES	
DIMENSIONAL SPECIFICATIONS	OVERALL HEIGHT	A	2,510 mm	2,580 mm
	OVERALL LENGTH (w/ Bucket & Weight)	B	4,210 mm	4,685 mm
	OVERALL WIDTH (w/ out Bucket)	C	1,520 mm	1,760 mm
	OVERALL OPERATING HEIGHT	D	3,500 mm	4,200 mm
	HEIGHT TO HINGE PIN	E	2,810 mm	3,310 mm
	DUMP ANGLE FULLY RAISED	F	45°	43°
	DUMP HEIGHT	G	2,245 mm	2,670 mm
	REACH FULLY RAISED	H	780 mm	860 mm
	DIGGING DEPTH	I	65 mm	55 mm
	WHEELBASE	J	1,775 mm	1,950 mm
	GROUND CLEARANCE	K	285 mm	325 mm
	TREAD	L	1,180 mm	1,360 mm
	ANGLE OF ARTICULATION (Each Way)	M	40°	40°
	FRAME OSCILLATION (Each Way)	N	8°	8°
LIFTING SPECIFICATIONS	TIPPING LOAD STRAIGHT (SAE Rating)			
	with Bucket		2,080 kg	2,360 kg
	with Pallet Forks		1,497 kg	1,756 kg
	TIPPING LOAD FULL TURN (SAE Rating)			
	with Bucket		1,740 kg	2,000 kg
	with Pallet Forks		1,270 kg	1,633 kg
OPERATING LOAD				
with Bucket		875 kg	1,000 kg	
with Pallet Forks		625 kg	739 kg	
COUNTER WEIGHT / Standard		500 kg	750 kg	
STANDARD BUCKET CAPACITY		0.4 m <sup>3</sup>	0.57 m <sup>3</sup>	
BUCKET BREAKOUT FORCE		2,980 kg	3,375 kg	
LOADER RAISE TIME		4.4 seconds	4.5 seconds	
LOADER LOWER TIME		3.0 seconds	3.6 seconds	
BUCKET DUMP TIME		1.1 seconds	1.6 seconds	
DRAW BAR PULL		2,400 kg	2,700 kg	
LOADER CLEARANCE CIRCLE		O		
OPERATING WEIGHT		3,380 kg	4,075 kg	
STANDARD TIRES		12.5 / 70-16 8-ply	15.5 / 60-18 8-ply	
TRANSMISSION		Load Sensing Transmission	Load Sensing Transmission	
NUMBER OF SPEEDS		1 Forward / 1 Reverse	1 Forward / 1 Reverse	
TRAVEL SPEED		0 to 20 km/hr	0 to 20 km/hr	
w / Travel Speed Limiter On		0 to 5 km/hr	0 to 5 km/hr	
BRAKES				
/ Service		Enclosed, Self Adjusting Wet Disc	Enclosed, Self Adjusting Wet Disc	
/ Parking		Spring Applied, Hydraulic Released Wet Disc	Spring Applied, Hydraulic Released Wet Disc	
PUMP TYPE AND OUTPUT				
/ LST		67.2 ℓ/min @ 40 Mpa (409 kgf/cm <sup>2</sup> )	67.2 ℓ/min @ 40 Mpa (409 kgf/cm <sup>2</sup> )	
/ MAIN		38.9 ℓ/min @ 24.5 Mpa (250 kgf/cm <sup>2</sup> )	53.8 ℓ/min @ 20.6 Mpa (210 kgf/cm <sup>2</sup> )	
/ CHARGE		15.6 ℓ/min @ 3.4 Mpa (34.7 kgf/cm <sup>2</sup> )	15.6 ℓ/min @ 3.4 Mpa (34.7 kgf/cm <sup>2</sup> )	
AUXILIARY HYDRAULIC FLOW		11.1 gpm front and rear	15.4 gpm front and rear	
FLUID REFILL	FUEL TANK		54 ℓ	54 ℓ
	HYDRAULIC SYSTEM		60 ℓ	62 ℓ
	HYDRAULIC RESERVOIR		42 ℓ	42 ℓ

Specifications subject to change without notice. For your safety, ROPS with a seatbelt is strongly recommended by Kubota in almost all applications.

## BACKHOE SPECIFICATIONS

MODEL		R420S/RBK4009S	R520S/RBK5009S
Raech from centerline of swing pivot	A	3,700 mm	3,700 mm
Overall operating height	B	3,220 mm	3,220 mm
Loading height	C	2,040 mm	2,040 mm
Digging depth (2' flat bottom)	D	2,720 mm	2,720 mm
Digging depth (Maximum)	E	2,750 mm	2,750 mm
Side shift (Each way)	-	495 mm	495 mm
Digging force bucket	-	1,860 kg	1,860 kg
Digging force dipperstick cylinder	-	1,250 kg	1,250 kg



## ATTACHMENTS



**2-post ROPS/FOPS**



**R420S mechanical quick coupler**



**Standard loader bucket**



**Counter weight**



**Backhoe**

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