

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.



T4
INTER
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



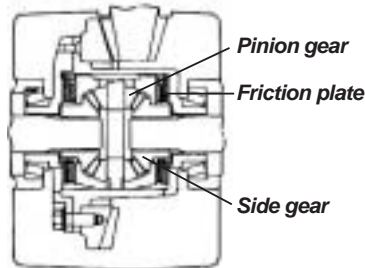
RECYCLING



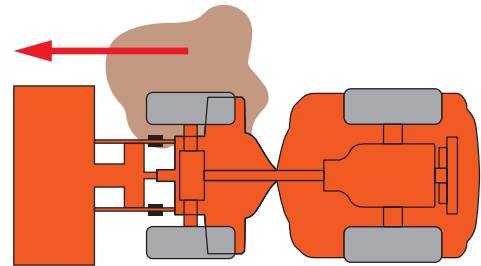
INDUSTRIAL & COMMERCIAL

Limited Slip Differential

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.



100% of available power to both drive wheels.



Superior lifting capacity

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

Clean-running Kubota Engine

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 EPA's 2008 interim Tier IV emissions regulations.



Complies with Interim Tier IV!

T4
TIER

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.

Hanging-style foot pedals

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



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.

Fully adjustable swivel 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.





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.

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.



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.

ROPS/FOPS 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 the FOPS meet the applicable, ISO, SAE, and OSHA 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.



Additional R20S-Series Features

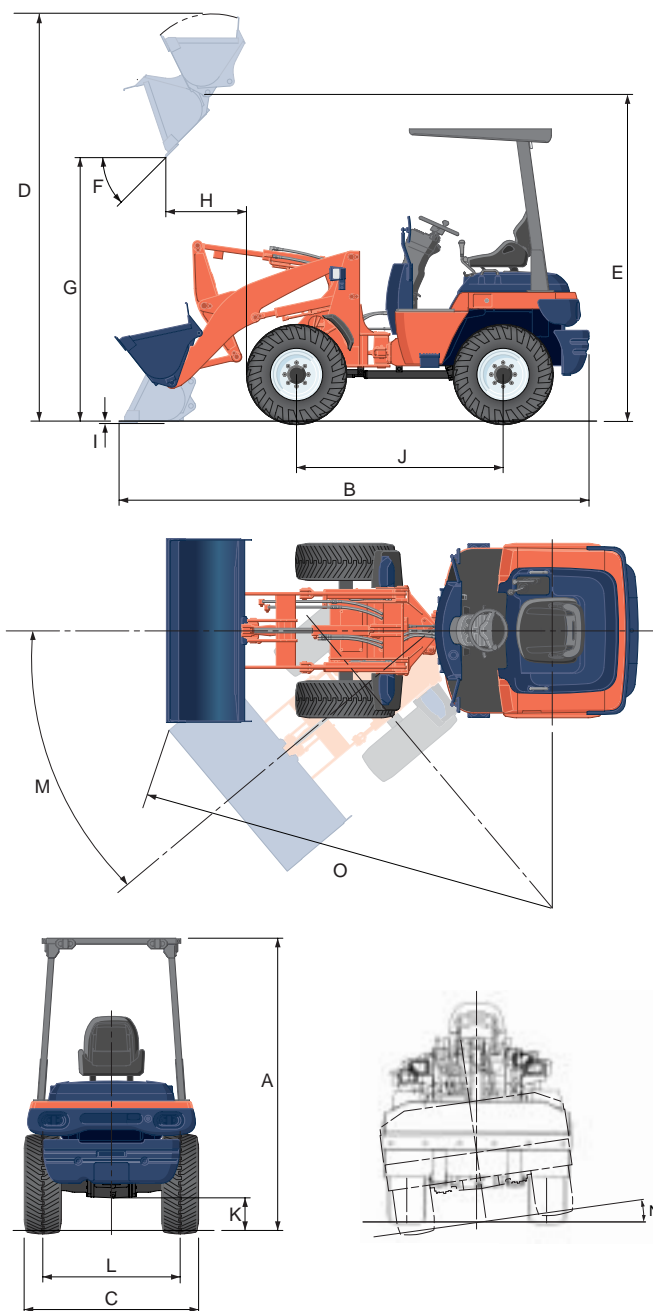
- Electric Parking Brake Switch
- Hydraulic Plumbed for Rear attachments
- Either Side Operator Entry/Exit
- Internal Wet Disc Brakes
- Wide Industrial Tires
- Dual Inching Brake Pedals
- One Key Locking System
- Easy Checker Instrument Panel
- Lockable Fuel Doors
- Lockable Flip-up Engine Cover
- Quieter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

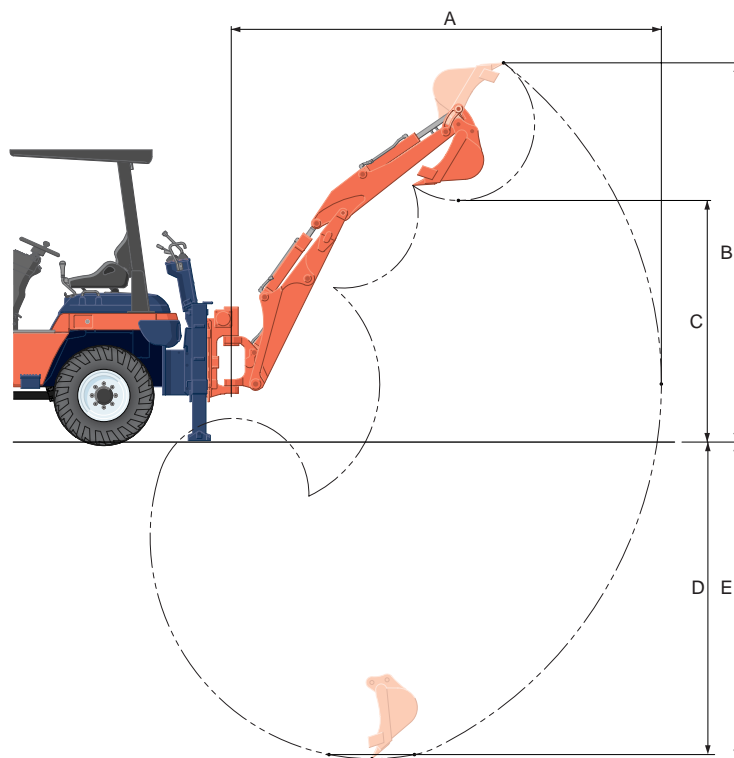
R20S-Series Safety Features

- The ROPS and FOPS meet applicable, ISO, SAE, and OSHA standards.
- Retractable Seat Belt
- Safety Starting System
- Front Side Operating Litghts
- Front and Rear Turn Signal/Brake Lights
- Control Lever Locks

■ R20S-SERIES DIMENSIONS



■ BACKHOE DIMENSIONS



R20S-SERIES SPECIFICATIONS

ENGINE	MODEL ROPS/FOPS		R420S	R520S
	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		91.4 cu. in. (1,497 cc)	134.1 cu. in. (2,197 cc)
	TURBOCHARGER		YES	NO
E-TVCS		YES	YES	
DIMENSIONAL SPECIFICATIONS	OVERALL HEIGHT	A	98.8" (2,510 mm)	101.6" (2,580 mm)
	OVERALL LENGTH (w/ Bucket & Weight)	B	165.8" (4,210 mm)	184.5" (4,685 mm)
	OVERALL WIDTH (w/ out Bucket)	C	59.8" (1,520 mm)	69.3" (1,760 mm)
	OVERALL OPERATING HEIGHT	D	137.8" (3,500 mm)	165.0" (4,200 mm)
	HEIGHT TO HINGE PIN	E	110.7" (2,810 mm)	130.3" (3,310 mm)
	DUMP ANGLE FULLY RAISED	F	45°	43°
	DUMP HEIGHT	G	88.4" (2,245 mm)	105.2" (2,670 mm)
	REACH FULLY RAISED	H	30.8" (780 mm)	33.9" (860 mm)
	DIGGING DEPTH	I	2.6" (65 mm)	1.8" (55 mm)
	WHEELBASE	J	69.9" (1,775 mm)	76.8" (1,950 mm)
	GROUND CLEARANCE	K	11.3" (285 mm)	12.8" (325 mm)
	TREAD	L	46.5" (1,180 mm)	53.5" (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		4,585 lbs. (2,080 kg)	5,190 lbs. (2,360 kg)
	with Pallet Forks		3,300 lbs. (1,497 kg)	3,870 lbs. (1,756 kg)
	TIPPING LOAD FULL TURN (SAE Rating)			
	with Bucket		3,830 lbs. (1,740 kg)	4,410 lbs. (2,000 kg)
	with Pallet Forks		2,800 lbs. (1,270 kg)	3,250 lbs. (1,633 kg)
	OPERATING LOAD			
with Bucket		1,925 lbs. (875 kg)	2,205 lbs. (1,000 kg)	
with Pallet Forks		1,400 lbs. (625 kg)	1,625 lbs. (740 kg)	
OPERATIONAL SPECIFICATIONS	COUNTER WEIGHT / Standard		1,100 lbs. (500 kg)	1,650 lbs. (750 kg)
	STANDARD BUCKET CAPACITY		.50 cubic yards	.75 cubic yards
	BUCKET BREAKOUT FORCE		6,550 lbs. (2,972 kg)	7,425 lbs. (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		5,280 lbs. (2,400 kg)	5,940 lbs. (2,700 kg)
	LOADER CLEARANCE CIRCLE	O	11'10.9" (3,630 mm)	12'12" (3,960 mm)
	OPERATING WEIGHT		7,450 lbs. (3,380 kg)	8,980 lbs. (4,075 kg)
DRIVE TRAIN & HYDRAULIC PUMP	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 12.5 mph (0 to 20 km/hr)	0 to 12.5 mph (0 to 20 km/hr)
	w / Travel Speed Limiter On		0 to 3.1 mph (0 to 5 km/hr)	0 to 3.1 mph (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		17.8 gpm @ 5,800 psi	17.8 gpm @ 5,800 psi
	/ MAIN		10.3 gpm @ 3,550 psi	14.2 gpm @ 2,990 psi
/ CHARGE		4.1 gpm @ 495 psi	4.1 gpm @ 495 psi	
FLUID REFILL	AUXILIARY HYDRAULIC FLOW		11.1 gpm front and rear	15.4 gpm front and rear
	FUEL TANK		14.3 gal. (54 ℓ)	14.3 gal. (54 ℓ)
	HYDRAULIC SYSTEM		15.9 gal. (60 ℓ)	16.4 gal. (62 ℓ)
HYDRAULIC RESERVOIR		11.1 gal. (42 ℓ)	11.1 gal. (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		R420BH	R520BH
Reach from centerline of swing pivot	A	145.7" (3,700 mm)	145.7" (3,700 mm)
Overall operating height	B	126.8" (3,220 mm)	126.8" (3,220 mm)
Loading height	C	80.3" (2,040 mm)	80.3" (2,040 mm)
Digging depth (2' flat bottom)	D	107.3" (2,720 mm)	107.3" (2,720 mm)
Digging depth (Maximum)	E	108.3" (2,750 mm)	108.3" (2,750 mm)
Side shift (Each way)	-	19.5" (495 mm)	19.5" (495 mm)
Digging force bucket	-	4,100 lbs. (1,860 kg)	4,100 lbs. (1,860 kg)
Digging force dipperstick cylinder	-	2,755 lbs. (1,250 kg)	2,755 lbs. (1,250 kg)

ATTACHMENTS



ROPS/FOPS cab



Skid steer style implement coupler



Standard loader bucket



Light material bucket



4-in-1 multi purpose bucket



Pallet forks



Counter weight



Backhoe bucket



Grapple



Backhoe

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