

Kubota®



KUBOTA WHEEL LOADER

R

R320S

The ultimate compact machine for responsive,  
safe and effective material handling



T4  
TIER

# Power and Performance – the core of the versatile R320S wheel loader and the cornerstone of the legendary tradition that is Kubota.

You demand it, and we deliver with the all new R320S wheel loader. You receive all the standard appointments you would expect in a Kubota such as a powerful engine, responsive handling, high reach & dump clearance, comfortable seating and ROPS/FOPS safety features, but you also get a host of standards not readily found on models of this size. An articulated body, long wheelbase, high visibility, low sound/vibration levels, and even lever locks. When it comes to unmatched power and all-around performance, the R320S is the right choice to handle all your wheel loader jobs.

## Clean-running Kubota Engine

Powerful and dependable, the R320S diesel engine delivers superior horsepower and performance. It offers low noise and vibration levels, exceptional fuel efficiency, and complies with the EPA's 2008 Tier IV emissions regulations.

Complies with Tier IV!



## Load sensing transmission

This feature enables our wheel loaders to automatically shift from low speed/high torque to high speed/low torque as load conditions vary.

## Articulated body

With our advanced articulated-type design, the front and rear wheels follow the same track line for greater maneuverability, more flexibility, and an overall tighter turning radius.

## 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.

## Independent 2-system-type brakes

A hydraulic main brake and a mechanical-type parking brake offer a high level of control. To ensure responsiveness even in mud, the wet-discs are completely sealed and protected.

## Dumping clearance

For easy dumping, even into high bed trucks, the Kubota R320S's dumping clearance is high for its size.





### Responsive power steering

You'll work longer and manoeuvre easier, even in tight spaces, with smooth-operating, light-touch power steering.

### ROPS/FOPS cab and canopy

Superior protection is provided by a Roll-Over Protective Structure and Falling Object Protective Structure. Both ROPS and FOPS meet the strictest ISO standards.

### Rear frame oscillation

An oscillating body enables the machine to keep its traction force more stable even on rough terrain, so jobs can be performed more comfortably.

### Fully adjustable suspension seat

To provide a high level of comfort to a wide range of operators, the suspension seat adjusts according to the operator's weight, plus has hip support and recline. The seat also has a retractable seatbelt, and a compartment in the back for manuals.

### Attachments

Quick couplers and auxiliary hydraulics make it simple to attach optional equipment, such as a backhoe.



### 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.

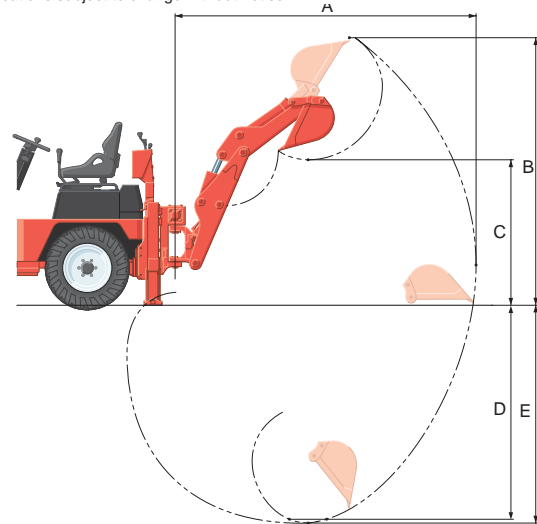


# SPECIFICATIONS

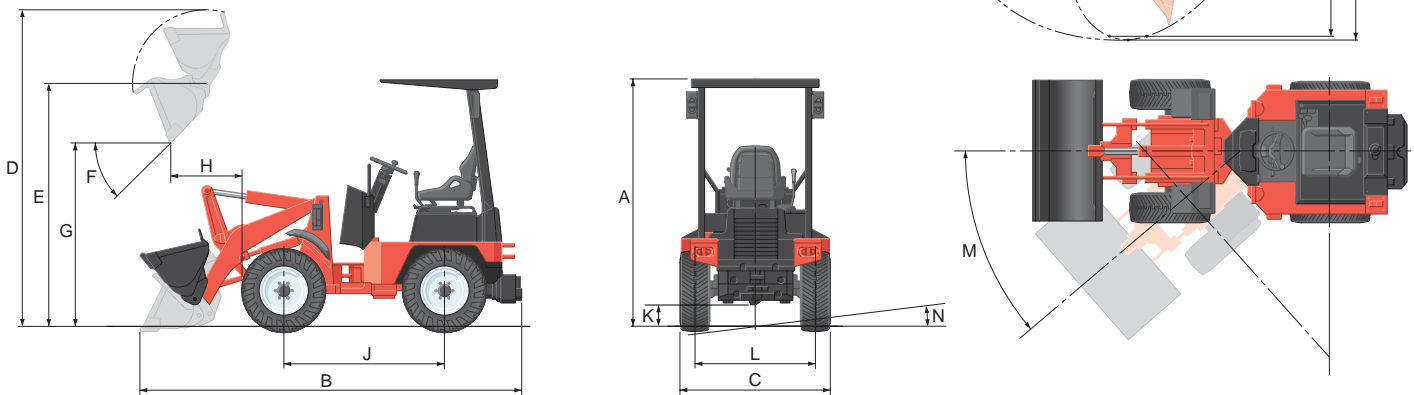
|                            |   |                                  |                 |
|----------------------------|---|----------------------------------|-----------------|
| Model ROPS/FOPS            |   | R320 2-Post Canopy               |                 |
| Engine                     | Make & Model                                  | Kubota V1305-M-T-E3              |                 |
|                            | Type  | Liquid cooled, 4-cylinder Diesel |                 |
|                            | Output (SAEJ 1995 gross)                      | 24.8 HP (18.5 kW)@2600 rpm       |                 |
|                            | Output (SAEJ 1349 net)                        | 24.4 HP (18.2 kW)@2600 rpm       |                 |
|                            | Displacement                                  | 81.4 cu.in. (1335 cc)            |                 |
|                            | Turbocharger                                  | no                               |                 |
|                            | E-TVCS  | yes                              |                 |
| Dimensions & working range | Overall height                                | A                                | 7'9" (2360 mm)  |
|                            | Overall length                                | B                                | 11'9" (3575 mm) |
|                            | Overall width                                 | C                                | 4'5" (1345 mm)  |
|                            | Overall operating height                      | D                                | 9'2" (2790 mm)  |
|                            | Height to hinge pin                           | E                                | 7'6" (2180 mm)  |
|                            | Dump angle fully raised                       | F                                | 46° (0.8 rad)   |
|                            | Dump height                                   | G                                | 5'9" (1750 mm)  |
|                            | Reach fully raised                            | H                                | 26" (650 mm)    |
|                            | Digging depth                                 | I                                | 2.36' (60 mm)   |
|                            | Wheelbase                                     | J                                | 4'9" (1450 mm)  |
|                            | Ground clearance                              | K                                | 9" (230 mm)     |
|                            | Tread   | L                                | 3'5" (1050 mm)  |
|                            | Angle of articulation (each way)              | M                                | 41° (0.72 rad)  |
|                            | Frame oscillation (each way)                  | N                                | 7° (0.12 rad)   |
| Lifting specifications     | Tipping Load straight (SAE rating) w/ bucket  | 2710 lbs. (1230 kg)              |                 |
|                            | Tipping Load full turn (SAE rating) w/ bucket | 2315 lbs. (1050 kg)              |                 |
|                            | Operating load w/ bucket                      | 880 lbs. (400 kg)                |                 |
|                            | Counter weight / standard                     | 440 lbs. (200 kg)                |                 |
| Operational                | Standard bucket capacity                      | 9.2 cu.ft. (0.26 m³)             |                 |
|                            | Bucket breakout force                         | 5030 lbs. (2280 kg)              |                 |
|                            | Load raise time                               | 3.9 sec.                         |                 |
|                            | Load lower time                               | 2.5 sec.                         |                 |
|                            | Bucket dump time                              | 1.0 sec.                         |                 |
|                            | Draw bar pull                                 | 3525 lbs. (1600 kgf)             |                 |
|                            | Loader clearance circle                       | 19'7" (5975 mm)                  |                 |
|                            | Operation weight                              | 4390 lbs. (1990 kg)              |                 |
|                            | Operation weight w/ backhoe                   | 4900 lbs. (2220 kg)              |                 |
|                            | Standard tires                                | 10-16.5-4PR (tubeless)           |                 |

|                              |                                      |  |                           |
|------------------------------|--------------------------------------|--|---------------------------|
| Drive train & hydraulic pump | Transmission                         |  | Load Sensing Transmission |
|                              | Number of speeds                     |  | F2/R2 (high and low)      |
|                              | Max. travel speed                    | High range   | 8.7 mph (14 km/h)         |
|                              |                                      | Low range  | 3.9 mph (6.3 km/h)        |
| Brakes                       | Service                              | Hermetically sealed, self-adjusting wet disc brake                       |                           |
|                              | Parking                              | Negative brake   |                           |
| Pump type and output         | LST                                  | Variable displacement axial piston pump<br>1.64 cu.in./rev (26.8 cc/rev) |                           |
|                              | Main                                 | Tandem gear type 0.61 cu.in./rev (10 cc/rev)                             |                           |
|                              | Charge                               | Tandem gear type 0.46 cu.in./rev (7.5 cc/rev)                            |                           |
|                              | Auxiliary hydraulic flow             |  | 6.9 gal (26 L/min)        |
| Fluid refill                 | Fuel tank                            |  | 6.9 gal (26 L)            |
|                              | Hydraulic system                     |  | 6.3 gal (24 L)            |
|                              | Hydraulic reservoir                  |  | 5.3 gal (20 L)            |
| Backhoe specifications       | Model                                |  | 320B / RBK3009            |
|                              | Reach from centerline of swing pivot | A  | 9'9" (2975 mm)            |
|                              | Overall operating height             | B  | 9'2" (2800 mm)            |
|                              | Loading height                       | C  | 5'10" (1765 mm)           |
|                              | Digging depth (2' Flat bottom)       | D  | 6'10" (2070 mm)           |
|                              | Digging depth (Maximum)              | E  | 6'11" (2100 mm)           |
|                              | Side shift (each way)                | 1'4" (410 mm)  |                           |
|                              | Digging force bucket                 | 1710 lbs. (775 kg)   |                           |
|                              | Digging force dipperstick cylinder   | 1150 lbs. (520 kg)   |                           |

NOTE: Specifications subject to change without notice.



## DIMENSIONS / WORKING RANGE



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