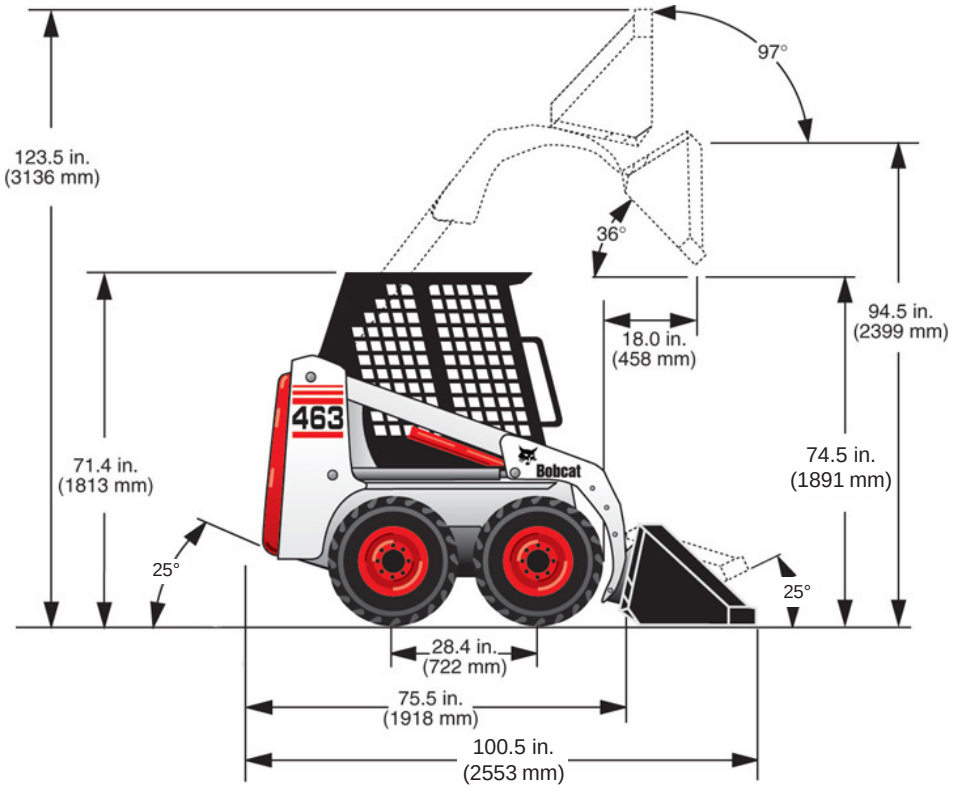
463 Skid-Steer Loader Specifications

Dimensions



Angle of Departure ..... 25°
Carry Position ..... 8.14" (207 mm)
Dump Angle @ Maximum Height ..... 34°
Dump Height with Standard Bucket ..... 74.5" (1891 mm)
Dump Reach @ Maximum Height ..... 18.5" (470 mm)
Ground Clearance ..... 5.5" (140 mm)
Height to Bucket Hinge Pin ..... 94.5" (2399 mm)
Height with Operator Cab ..... 71.4" (1814 mm)
Length without Attachment ..... 75.5" (1918 mm)
Length with Standard Bucket ..... 100.5" (2553 mm)
Operating Height ..... 123.3" (3132 mm)
Rollback @ Carry Position ..... 25°
Rollback Fully Raised
@ Maximum Height ..... 97°
Wheelbase ..... 28.4" (722 mm)

Turning Radius
with Standard Bucket ..... 61.3" (1557 mm)
A) Width (over tires)
23 x 5.70-12 ..... 35.4" (900 mm)
23 x 8.50-12 ..... 43.3" (1100 mm)
B) Wheel Tread
23 x 5.70-12 ..... 29.6" (752 mm)
23 x 8.50-12 ..... 35.5" (902 mm)
C) Width (over bucket)
36" Bucket ..... 36.0" (914 mm)
44" Bucket ..... 44.5" (1130 mm)

Performance

Rated Operating Capacity (SAE J732) ..... 700 lbs. (318 kg.)
Tipping Load (SAE J732) ..... 1405 lbs. (637 kg.)
Operating Weight (SAE) ..... 2708 lbs. (1228 kg.)
Travel Speed ..... 6.5 mph (10,5 km/hr)
Lift Breakout Force (SAE) ..... 1450 lbf. (6450 N)
Tilt Breakout Force (SAE) ..... 2025 lbf. (9008 N)
Axle Torque ..... 1066 ft.-lbs. (1445 Nm)

ENGINE/ELECTRICAL

Make/Model	Kubota/D1005-E2B
Fuel/Cooling	Diesel/Liquid
Horsepower (SAE J1349 Net)	22.5 HP (16,8 kW)
Maximum Governed RPM	3000 RPM
Torque @ 2200 RPM (SAE Gross)	43 ft.–lbs. (58,3 Nm)
Number of Cylinders	3
Displacement	61.1 cu. in. (1,0 L)
Bore/Stroke	2.99 / 2.90 in. (76 / 73,6 mm)
Fuel Consumption	0.75 gal/hr (2,8 L/hr) Estimated fuel consumption is based on testing by Bobcat Company in high duty cycle digging applications.
Lubrication	Pressure System with Filter
Crankcase Ventilation	Closed breathing
Air Cleaner	Dry replaceable cartridge with safety element
Ignition	Compression (Diesel)
Engine Coolant	Propylene glycol/water mix (53%-47%) with freeze protection to -34°F (-37°C)
Starting Aid	Glow plugs
Alternator	Belt Driven; 65 amps; Open
Battery	12 volt; 600 cold cranking amps @ 0°F (-18°C); 115 minute reserve capacity
Starter	12 volt; gear reduction type; 3.62 HP (2,7 kW)

HYDRAULIC SYSTEM

Pump Type	Engine driven, gear type
Pump Capacity	10 GPM (37,1 L/min) @ 3000 RPM
System Relief @ Quick Couplers	3000 PSI (207 Bar)
Hydraulic Filter	Full flow replaceable, 10 micron cartridge filter element in the hydrostatic pump charge line
Hydraulic Cylinders	Double-acting, with dual cushions on tilt
Control Valve	3-Spool, open center with spring detent on lift and detent auxiliary spool.
Fluid Type	Bobcat Fluid (P/N 6563328) If fluid is not available, use 10W-30/10W-40 Class SE motor oil for temperatures above 0°F (-18°C) or 5W-30 Class SE motor oil for temperatures below 0°F (-18°C).
Bore Diameter	
Lift Cylinder (2)	2.00 in. (50,8 mm)
Tilt Cylinder (1)	3.00 in. (76,2 mm)
Rod Diameter	
Lift Cylinder (2)	1.25 in. (31,8 mm)
Tilt Cylinder (1)	1.25 in. (31,8 mm)
Stroke	
Lift Cylinder (2)	21.88 in. (555,8 mm)
Tilt Cylinder (1)	10.56 in. (268,2 mm)
Hydraulic Function Times	
Raise Lift Arms	3.6 Seconds
Lower Lift Arms	2.5 Seconds
Bucket Dump	2.3 Seconds
Bucket Rollback	2.1 Seconds

DRIVE SYSTEM

Main Drive	Fully hydrostatic, 4-wheel drive
Transmission	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors
Final Drive Chains	Pre-stressed #60 HS endless roller chain (no master link) and sprockets in sealed chaincase with oil lubrication (Chains do not require periodic adjustments) Two chains per side with no idler sprocket
Axle Size	1.5 in. (38,1 mm) heat treated
Wheel Bolts	(5) 7/16 in. Wheel bolts fixed to axle hubs

CAPACITIES

Fuel Tank	6.5 gals. (24,6 L)
Cooling System	6.0 qts. (5,7 L)
Engine Oil with Filter	5.0 qts. (4,7 L)
Hydraulic Reservoir	5.3 qts. (5,0 L)
Hydraulic/Hydrostatic System	4.0 gals. (15,1 L)

CONTROLS

Vehicle Steering	Direction and speed controlled by two hand levers
Loader Hydraulics	
Lift & Tilt	Controlled by separate foot pedals
Front Auxiliary (Std.)	Controlled by lateral movement of Right Hand (RH) steering lever
Auxiliary Pressure Release	Lateral movement of RH steering lever after engine has been shut off.
Engine	Hand lever throttle: key-type starter switch and shutdown
Starting Aid	Glow Plugs – activated by Rocker Switch on dash panel
Service Brake	Two independent hydrostatic systems controlled by two hand-operated steering levers
Secondary Brake	One of the hydrostatic transmissions
Parking Brake	Finger-operated toggle switch on left-hand instrument panel.