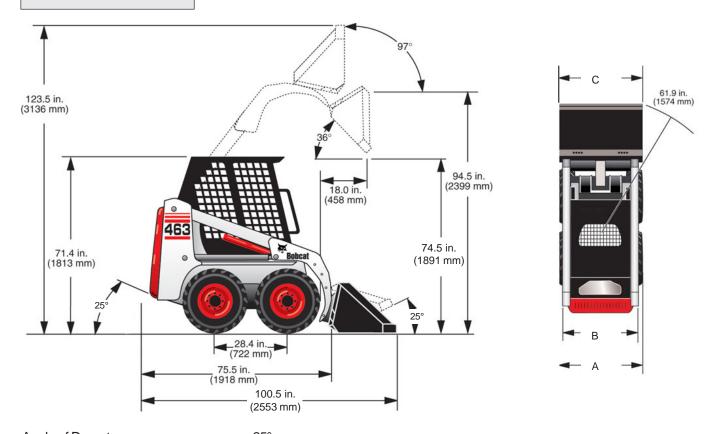
463 SKID-STEER LOADER SPECIFICATIONS

DIMENSIONS



25°
8.14" (207 mm)
34°
74.5" (1891 mm)
18.5" (470 mm)
5.5" (140 mm)
94.5" (2399 mm)
71.4" (1814 mm)
75.5" (1918 mm)
100.5" (2553 mm)
123.3" (3132 mm)
25°
97°
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)	
Operating Weight (SAE)	
Travel Speed	6.5 mph (10,5 km/hr)
Lift Breakout Force (SAE)	1450 lbf. (6450 N)
Tilt Breakout Force (SAE)	
Axle Torque	1066 ftlbs. (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 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 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

115 minute reserve capacity

HYDRAULIC SYSTEM

Pump Type	. Engine driven, gear typ	e	
Pump Capacity	. 10 GPM (37,1 L/min) @	2 3000 RPM	
System Relief @ Quick Couplers	. 3000 PSI (207 Bar)		
Hydraulic Filter	. Full flow replaceable, 1	0 micron cartridge filter el	lement in the
	hydrostatic pump charg	ge line	
Hydraulic Cylinders			
Control Valve	. 3-Spool, open center w	rith spring detent on lift an	d detent auxiliary spool.
Fluid Type	. Bobcat Fluid (P/N 6563	3328)	
	If fluid is not available,	use 10W-30/10W-40 Cla	ss SE motor oil
	for temperatures above	e 0°F (-18°C) or 5W-30 Cla	ass SE motor oil
	for temperatures below	0°F (-18°C).	
Bore Diameter			
Lift Cylinder (2)			
Tilt Cylinder (1)	. 3.00 in. (76,2 mm)		
Rod Diameter			
Lift Cylinder (2)			
Tilt Cylinder (1)	. 1.25 in. (31,8 mm)		
Stroke			
Lift Cylinder (2)			
Tilt Cylinder (1)	. 10.56 in. (268,2 mm)		
Hydraulic Function Times			
Raise Lift Arms		Bucket Dump	
Lower Lift Arms	. 2.5 Seconds	Bucket Rollback	2.1 Seconds

DRIVE SYSTEM

Main DriveFully 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 Size1.5 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 con	trolled 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.

INSTRUMENTATION

The following loader functions are monitored by a combination of gauges and warning lights in the operator's line of sight. The system shall alert the operator of monitored loader malfunctions by way of an audible alarm and visual warning lights.

Standard Instrument Panel

<u>Gauges</u>
Hourmeter
Engine Coolant Temperature
System Voltage

Warning Lights
Engine Oil Pressure
Engine Coolant Temperature

Indicators
BICS Functions



SERVICEABILITY

Access is available to the following through the rear door/tailgate and rear screen

Air cleaner

Alternator

Battery

Cooling system (engine oil and hydraulic oil coolers) for cleaning

Engine oil and fuel filters

Engine oil drain and dipstick

Hydraulic oil fill

Starter

Axle hubs provide protection for the axle seals

Bobtach pivots have replaceable wear bushings

Easy access to all lift arm grease points

Remote engine oil fill

Rod end of the tilt cylinder has a replaceable bushing

Tailgate has an optional lock for vandal proofing

Tip-up operator cab gives access to certain hydraulic system components

OPTIONS/ACCESSORIES

Factory Field Option Kit

- x Attachment Control Kit
- x Backup Alarm
- x Cab Enclosure (Includes front door with wiper, top & sliding side windows and side instrument panel)
- x Cab Enclosure with Heat
 - x Catalytic Exhaust Purifier
 - x Engine Block Heater
 - x Fire Extinguisher Kit
 - x Horn
 - x Hydraulic Bucket Positioning
 - x Keyless Start
 - x Locking Fuel Cap
 - x Low Coolant Sensor Kit
 - x Rental Kit
 - x Rotating Beacon Light
 - x Seat Belt, 3" Wide
 - x Side Instrument Panel
 - x Side Windows Kit
- x Sound Cab
 - x Special Applications Kit
 - x Strobe Light Kit
- x Suspension Seat
- **x** Tires: 23 x 8.50-12, 6 PR
- **x x** 23 x 8.50-12, 8 PR
 - x Top Window

STANDARD FEATURES

Auxiliary Hydraulics

Bob-Tach

Bobcat Interlock Control System (BICS)

Instrumentation (See Page 4)

Lift Arm Support

Lights, Front and Rear

Operator Cab*

Parking Brake

Rear Window

Seat, High Back Cushion

Seat Bar

Seat Belt

Spark Arrestor Muffler

Tires: 23 x 5.70-12, 4 PR,

Bobcat Standard Duty

* Roll Over Protective Structure (ROPS)— Meets requirements of SAE-J1040 and ISO 3471

ATTACHMENTS

Angle Broom
Auger
Snow V-Blade*
Backhoe
Boring Unit
Buckets
Digger
Dumping Hopper
Snow V-Blade*
Snowblower*
Soil Conditioner
Stump Grinder*
Sweeper
Tillor

Dumping Hopper Tiller Farm Grapple Trencher

Hydraulic Breaker Utility (Dozer) Blade

Landplane Utility Forks
Mini Scraper Utility Grapple

See Bobcat Product Price List for specific attachment model availablity.

*Requires Attachment Control Kit

SAFETY

Bobcat Interlock Control System	
(BICS) (Std.)	. Requires the operator to be seated in the loader with the
	seat bar in place and the engine running. After the operator presses
	the "Press to Operate Loader" button, the loader's hydraulic lift and tilt
	functions and traction drive system can be operated.
Lift Arm Bypass Control (Std.)	. Used to lower the lift arms in the event that the lift arms cannot be
	lowered during normal operating conditions.
Seat Belt (Std.)	. Should always be worn when operating the loader
Seat Bar (Std.)	. Secondary operator restraint, also serves as an arm rest
Operator Cab (Std.)	. An enclosable operator cab with side screens with a minimal inside
	cab width of 27" (686 mm) as standard equipment.
	Meets SAE J1040 and ISO 3471 for Roll Over Protective Structure
	(ROPS) and SAE J1043 and ISO 3449 Level I for Falling Objects
	Protective Structure (FOPS). Level II option is available.

Level I – Acceptance is intended for protection from falling bricks, small concrete blocks and hand tools encountered in operations such as highway maintenance, landscaping and other construction site services.

Level II – Acceptance is intended for protection from falling trees or rocks for machines involved in site clearing, overhead demolition or forestry.

Lift Arm Support (Std.) Parking Brake (Std.) Grab Handles (Std.) Safety Tread (Std.)	. Always set brake when leaving loader
Attachment Steps (Std.) Rear Window (Std.) Front & Rear Working Lights (Std.) Backup Alarm (Opt.) Lift Kits (Opt.) Special Applications Kit (Opt.) Operator's Handbook (Std.)	. Should always be used when entering/exiting loader . Rear Window opening for emergency exit . Use for indoor and low light operation . For use in jobs with low visibility . Lift kits are available so that loaders may be lifted into remote areas

TRAINING RESOURCES

These optional videotapes and training courses are available through Bobcat Parts

Bobcat Skid-Steer Loader Operator Training Course

4-hour course provides video, classroom and hands-on training (also available in Spanish)

Bobcat Skid-Steer Loader Service Safety Training Course

2-hour course provides video, classroom and hands-on training

Bobcat Skid-Steer Loader Safety Video

Short and to-the-point video provides basic safety instructions for the Skid-Steer Loader