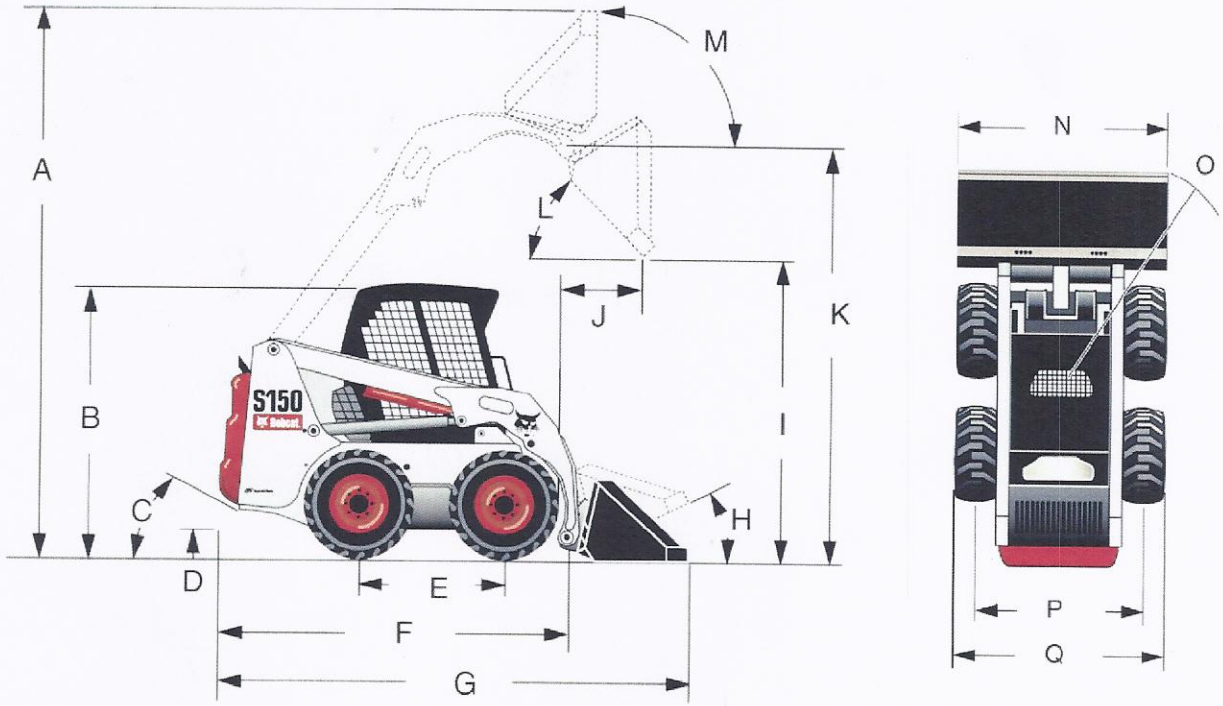
S150 Skid-Steer Loader Specifications

Dimensions



A) Operating Height ..... 148.0" (3759 mm)
B) Height with Operator Cab ..... 76.3" (1938 mm)
C) Angle of Departure ..... 23°
D) Ground Clearance ..... 7.5" (191 mm)
E) Wheelbase ..... 40.6" (1030 mm)
F) Length without Attachment ..... 101.8" (2586 mm)
G) Length with Standard Bucket ..... 130.3" (3309 mm)
H) Rollback @ Carry Position ..... 26°
I) Dump Height with Standard Bucket .... 86.5" (2197 mm)
J) Dump Reach @ Maximum Height ..... 18.13" (461 mm)
K) Height to Bucket Hinge Pin ..... 114.5" (2908 mm)
L) Dump Angle @ Maximum Height ..... 44°
M) Rollback Fully Raised
@ Maximum Height ..... 92°

Carry Position ..... 9.0" (229 mm)

N) Width (over bucket)
62" Bucket ..... 62.0" (1575 mm)
68" Bucket ..... 68.0" (1727 mm)
74" Bucket ..... 74.0" (1880 mm)
0) Turning Radius with Standard Bucket 82.4" (2093 mm)
Rear Clearance of Machine ..... 62.2" (1579 mm)
P) Wheel Tread
10-16.5 ..... 55.1" (1400 mm)
10-16.5 with offset rims ..... 48.5" (1232 mm)
31.5x13-16.5 ..... 58.4" (1483 mm)
Q) Width (over tires)
10-16.5 ..... 66.0" (1676 mm)
10-16.5 with offset rims ..... 60.0" (1524 mm)
31.5x13-16.5 ..... 71.6" (1818 mm)

Performance

Rated Operating Capacity (SAE J732) ..... 1500 lbs. (680 kg)
Rated Operating Capacity with Counterweight option ..... 1600 lbs. (726 kg)
Tipping Load (SAE) ..... 3101 lbs. (1407 kg)
Operating Weight (SAE) ..... 5935 lbs. (2692 kg)
Travel Speed ..... 7.3 mph (11.8 km/hr)
Lift Breakout Force (SAE) ..... 3200 lbs. (1451 kg)
Tilt Breakout Force (SAE) ..... 3050 lbs. (1383 kg)
Push Force ..... 3950 lbs. (1792 kg)

Engine/Electrical

Make/Model	Kubota/V2403-MDI-E3
Fuel/Cooling	Diesel/Liquid
Horsepower (SAE Gross)	49 HP (36 kW)
Maximum Governed RPM	2700 RPM
Torque (SAE Net)	109.6 ft–lbs. (148,60 Nm) @ 1650 RPM
Number of Cylinders	4
Displacement	148.5 cu. in. (2,4 L)
Bore/Stroke	3.43/4.03 in. (87/102 mm)
Fuel Consumption	1.8 gph (6,8 L/h) Estimated fuel consumption is based on testing by Bobcat Company in high duty cycle digging applications.
Lubrication	Gear Pump Pressure
Crankcase Ventilation	Closed, breathing
Air Cleaner	Dry replaceable paper 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	90 amps; ventilated with internal regulator
Battery	12 volt; 600 cold cranking amps @ 0°F (-18°C); 115 minute reserve capacity @ 25 amps
Starter	12 volt, gear reduction type; 3.62 HP (2,7 kW)

Hydraulic System

Pump Type	Engine driven, gear type
Pump Capacity	
Standard	16.9 GPM (64 L/min) @ 3135 RPM
System Relief @ Quick Couplers	3300 PSI (228 Bar)
Hydraulic Filter	Full flow replaceable, 3 micron synthetic media element
Hydraulic Cylinders	Double-acting; Tilt cylinders have cushioning feature on dump
Control Valve	3-Spool, open center type with spring detent on lift. Electric solenoid valves for auxiliary
Fluid Type	Bobcat Hydraulic/Hydrostatic Fluid (P/N 6563328) Motor oil is not an acceptable alternative fluid
Bore Diameter	
Lift Cylinder (2)	2.50 in. (63,5 mm)
Tilt Cylinder (2)	2.75 in. (69,8 mm)
Rod Diameter	
Lift Cylinder (2)	1.50 in. (38,1 mm)
Tilt Cylinder (2)	1.375 in. (34,9 mm)
Stroke	
Lift Cylinder (2)	23.67 in. (601 mm)
Tilt Cylinder (2)	13.19 in. (335,0 mm)
Hydraulic Function Times	
Raise Lift Arms	3.3 Seconds
Lower Lift Arms	2.2 Seconds
Bucket Dump	2.5 Seconds
Bucket Rollback	1.9 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 #80 HSOC 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	2.00 in. (50,8 mm), heat treated
Wheel Bolts	(8) 9/16 in. wheel bolts fixed to axle hubs

Capacities

Fuel Tank	24 gals. (90,8 L)
Cooling System without heater	11.0 qts. (10,4 L)
Engine Oil with Filter	9.5 qts. (9,0 L)
Hydraulic Reservoir	4.8 gals. (18,2 L)
Hydraulic/Hydrostatic System	8.5 gals. (32,2 L)
Transmission (Final Drive)	9 gals. (34,1 L)

Controls

Vehicle Steering	Direction and speed controlled by two hand levers
Loader Hydraulics	
Lift & Tilt	Controlled by separate foot pedals or optional Advanced Control System (ACS) or optional Selectable Joystick Controls (SJC)
Front Auxiliary (Std.)	Controlled by electrical switch on Right Hand steering lever
Rear Auxiliary (Opt.)	Controlled by electrical switch on Left Hand steering lever
Auxiliary Pressure Release	Pressure is relieved through the coupler block, push in and hold for five seconds
Engine	Hand lever throttle; key-type starter switch and shutdown
Starting Aid	Glow Plugs – automatically activated by Standard or Deluxe Instrument Panel
Service Brake	Two independent hydrostatic systems controlled by two hand operated steering levers
Secondary Brake	One of the hydrostatic transmissions
Parking Brake	Mechanical disc, hand operated rocker switch on dash panel

Serviceability

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

- Air cleaner
- Alternator
- Battery
- Cooling system (radiator and hydraulic oil cooler) for cleaning
- Engine oil and fuel filters
- Engine oil drain and dipstick
- Fuel fill
- 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
Rod end of the tilt cylinder has a replaceable bushing
Tailgate has an optional lock for vandal proofing
Tailgate is equipped with door stop to hold door open while servicing
Tip-up operator cab gives access to certain hydraulic system components