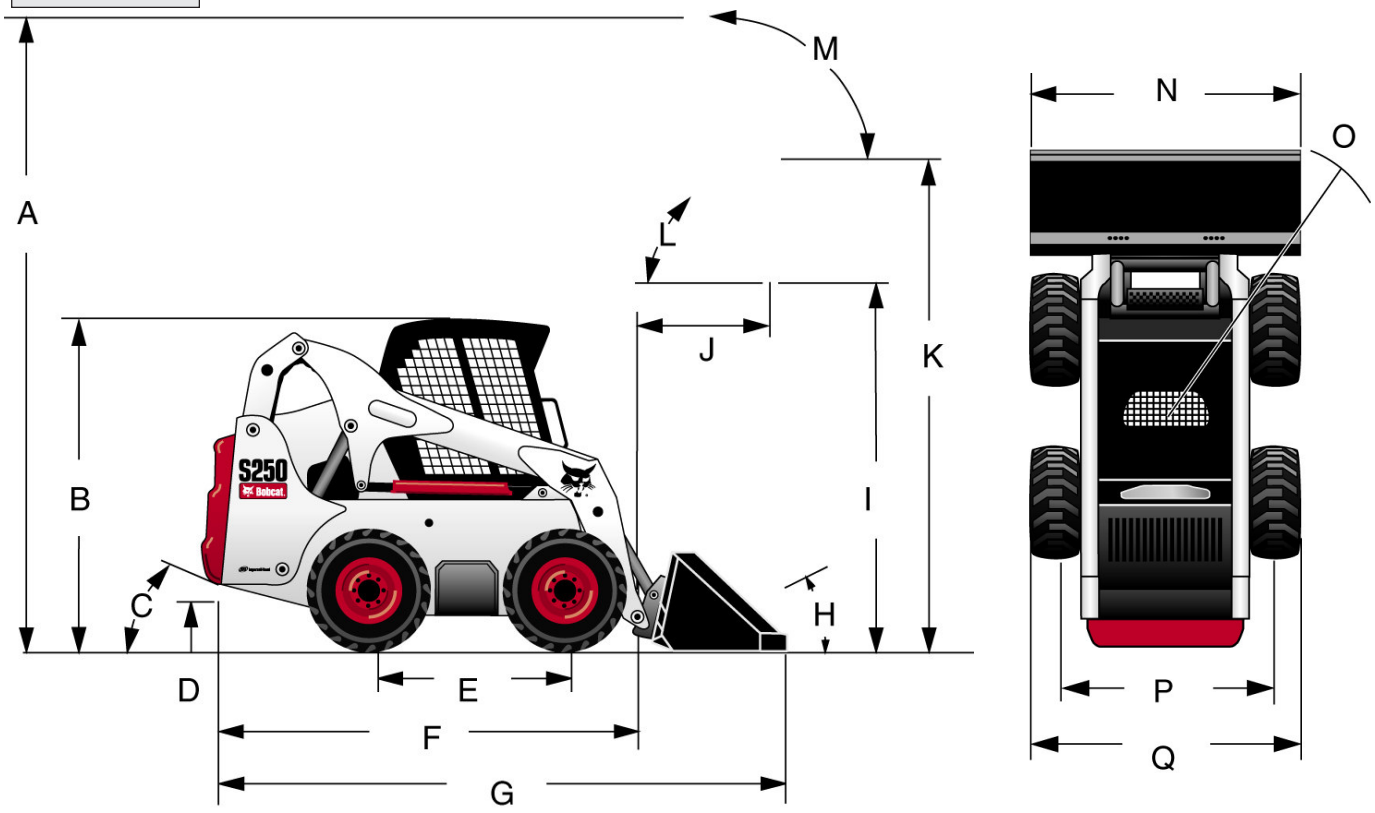
# S250 Skid-Steer Loader Specifications

## Dimensions




A) Operating Height ..... 160.6" (4079 mm)
B) Height with Operator Cab ..... 80.9" (2055 mm)
C) Angle of Departure ..... 25°
D) Ground Clearance ..... 8.5" (216 mm)
E) Wheelbase ..... 48.3" (1227 mm)
F) Length without Attachment ..... 114.5" (2908 mm)
G) Length with Standard Bucket ..... 142.9" (3630 mm)
H) Rollback @ Carry Position ..... 32°
I) Dump Height with Standard Bucket . 99.1" (2517 mm)
J) Dump Reach @ Maximum Height ... 33.8" (859 mm)
K) Height to Bucket Hinge Pin ..... 128.8" (3272 mm)
L) Dump Angle @ Maximum Height ..... 42°
M) Rollback Fully Raised
@ Maximum Height ..... 96°

Carry Position ..... 9.7" (246 mm)

N) Width (over bucket)
68" Bucket ..... 68.0" (1727 mm)
74" Bucket ..... 74.0" (1880 mm)
80" Bucket ..... 80.0" (2032 mm)
O) Turning Radius
with Standard Bucket ..... 84.2" (2139 mm)
Rear Clearance of Machine ..... 62.2" (1579 mm)
P) Wheel Tread
12-16.5 ..... 59.2" (1503 mm)
33 X 15.5-16.5 ..... 59.2" (1503 mm)
Q) Width (over tires)
12-16.5 ..... 72.0" (1829 mm)
33 X 15.5-16.5 ..... 74.0" (1880 mm)

## Performance

Rated Operating Capacity (SAE J732) ..... 2500 lbs. (1134 kg)
Rated Operating Capacity with Counterweight option ..... 2600 lbs. (1179 kg)
Tipping Load (SAE) ..... 5661 lbs. (2564 kg)
Operating Weight (SAE) ..... 7825 lbs. (3549 kg)
Travel Speed - standard ..... 6.9 mph (11,1 km/hr)
Travel Speed - Two-Speed option ..... 6.9/12.0 mph (11,1/19,3 km/hr)
Lift Breakout Force (SAE) ..... 5000 lbs. (2268 kg)
Tilt Breakout Force (SAE) ..... 5000 lbs. (2268 kg)
Push Force ..... 5500 lbs. (2495 kg)

## ENGINE/ELECTRICAL

| | |
|---|---|
| Make/Model | Kubota/V3800-DI-TE3 |
| Fuel/Cooling | Diesel/Liquid |
| Horsepower, (SAE Net) | 72 HP (54 kW) /(SAE Gross) 75 HP (56 kW) |
| High Idle | 2400 RPM |
| Torque @ 1500 RPM (SAE Net) | 201.9 LBF-FT (274 Nm) /(SAE Gross) 20 LBF-FT (278 Nm) |
| Number of Cylinders | 4 |
| Displacement | 230 cu. in. (3,8 L) |
| Bore/Stroke | 3.94 in./4.72 in. (100 mm/120 mm) |
| Fuel Consumption | 3.2 gal/hr (11,4 L/hr)<br>Estimated fuel consumption is based on testing by Bobcat Company in high duty cycle digging applications. |
| Lubrication | Pressure System with Filter |
| Crankcase Ventilation | Open, breathing |
| Air Cleaner | Dry replaceable paper cartridge with safety element |
| Ignition | Compression (Diesel) |
| Engine Coolant | Propylene glycol/water mix (53%-47%)<br>with freeze protection to -34°F (-37°C) |
| Starting Aid | Intake Air Heater |
| Alternator | Belt driven; 90 amps; Open Frame witgh Internal Regulator |
| Battery | 12 volt; 950 cold cranking amps @ 0°F(-18°C);<br>180 minute reserve capacity @ 25 amps |
| Starter | 12 volt; gear reduction type; 4.02 HP (3,0 kW) |

## TWO- SPEED TRAVEL

Optional Configuration
Two-Speed Motors
Low Range - 6.9 MPH
High Range - 12.0 MPH
Low Effort Pump
Spring Applied/Pressure Release (SAPR) Brake
Suspension Seat
Three-Point Seat Belt

## HYDRAULIC SYSTEM

| | |
|---|---|
| Pump Type | Engine driven, gear type |
| Pump Capacity | |
| Standard | 20.7 GPM (78,4 L/min) @ high idle |
| High Flow Option | 36.7 GPM (138,9 L/min) @ high idle |
| System Relief @ Quick Couplers | 3300 PSI (227,5 Bar) |
| Hydraulic Filter | Full flow replaceable, 3 micron synthetic media element |
| Hydraulic Cylinders | Double-acting; tilt cylinders have cushioning feature on dump and rollback |
| Control Valve | 3-Spool, open center type with spring detent on lift. Electrical solenoid valves for auxiliary. |
| Fluid Type | Bobcat Hydraulic/Hydrostatic Fluid (P/N 6563328)<br>Motor oil is not an acceptable alternative fluid |

*Bore Diameter*

| | |
|---|---|
| Lift Cylinder (2) | 3.00 in. (76,2 mm) |
| Tilt Cylinder (2) | 3.00 in. (76,2 mm) |

*Rod Diameter*

| | |
|---|---|
| Lift Cylinder (2) | 1.63 in. (41,4 mm) |
| Tilt Cylinder (2) | 1.50 in. (38,1 mm) |

*Stroke*

| | |
|---|---|
| Lift Cylinder (2) | 25.5 in. (646,7 mm) |
| Tilt Cylinder (2) | 15.1 in. (383,5 mm) |

*Hydraulic Function Times*

| | | | |
|---|---|---|---|
| Raise Lift Arms | 4.4 Seconds | Bucket Dump | 2.6 Seconds |
| Lower Lift Arms | 3.2 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 #120 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 | 2.76 in. (70,1 mm), heat treated |
| Wheel Bolts | (8) 9/16 in. wheel bolts fixed to axle hubs |

## Capacities

| | |
|---|---|
| Fuel Tank | 23 gals. (87,1 L) |
| Engine Oil with Filter | 14 qts. (13,3 L) |
| Engine Coolant | 4.3 gals. (16,3 L) |
| Hydraulic/Hydrostatic Reservoir | 4.7 gals. (17,8 L) |
| Hydraulic/Hydrostatic System | 13 gals. (49,2 L) |
| Transmission (Final Drive) | 11 gals. (41,6 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 | Air Intake Heater – 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 (Std.) | Mechanical disc, hand operated rocker switch on dash panel |
| Parking Brake (Two-speed Opt.) | Spring applied pressure release multi disk brake activated by rocker switch |

## 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