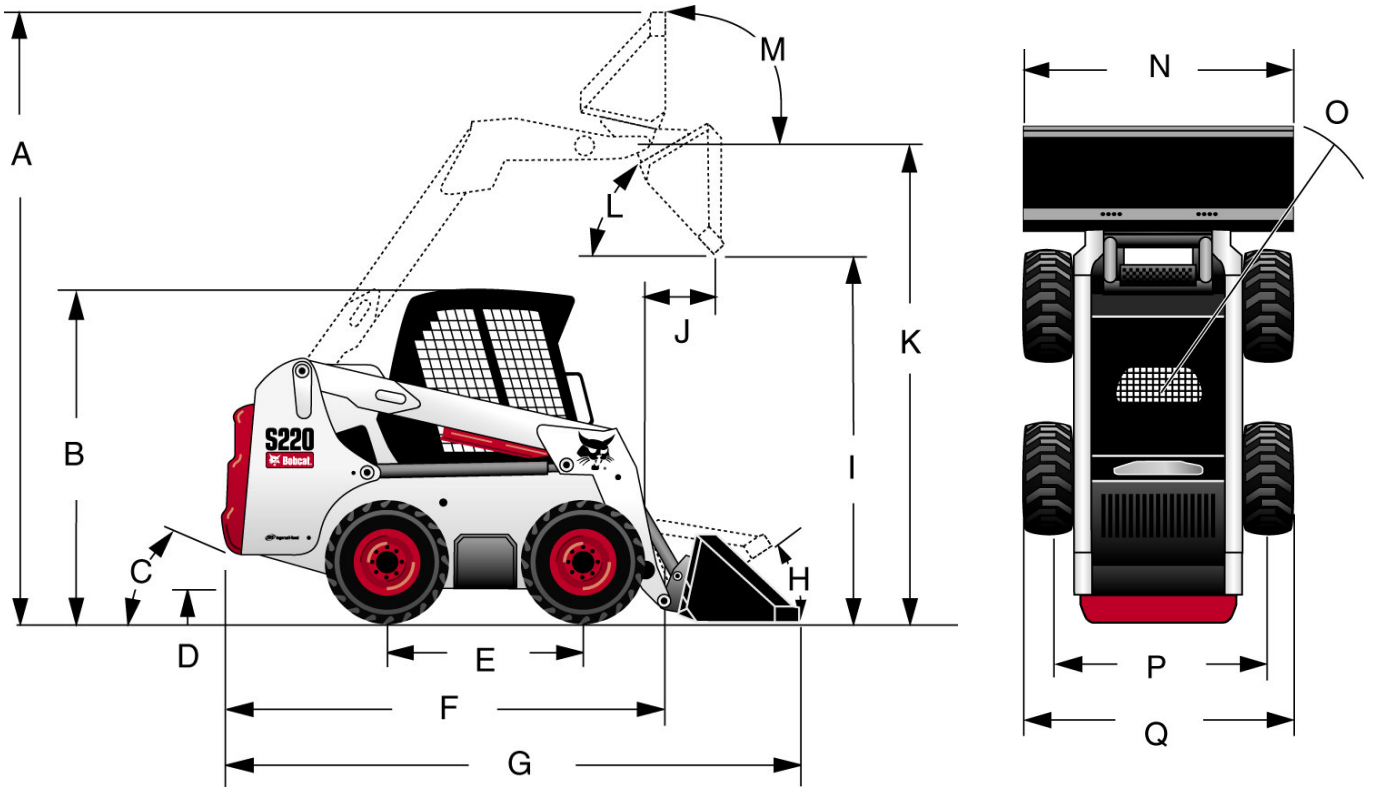


# S220 SKID-STEER LOADER SPECIFICATIONS

## DIMENSIONS



A) Operating Height .....	156.6" (3978 mm)	N) Width (over bucket)	
B) Height with Operator Cab .....	80.9" (2055 mm)	68" Bucket .....	68.0" (1727 mm)
C) Angle of Departure .....	25°	74" Bucket .....	74.0" (1880 mm)
D) Ground Clearance .....	8.5" (216 mm)	O) Turning Radius	
E) Wheelbase .....	48.3" (1227 mm)	with Standard Bucket .....	84.2" (2139 mm)
F) Length without Attachment .....	114.5" (2908 mm)	Rear Clearance of Machine .....	68.2" (1732 mm)
G) Length with Standard Bucket .....	142.9" (3630 mm)	P) Wheel Tread	
H) Rollback @ Carry Position .....	32°	12-16.5 .....	59.2" (1503 mm)
I) Dump Height with Standard Bucket .....	95.4" (2423 mm)	12-16.5 with offset rims .....	54.4" (1382 mm)
J) Dump Reach @ Maximum Height .....	21.6" (549 mm)	33 X 15.5-16.5 .....	61.6" (1565 mm)
K) Height to Bucket Hinge Pin .....	122.4" (3109 mm)	Q) Width (over tires)	
L) Dump Angle @ Maximum Height .....	41°	12-16.5 .....	72.0" (1829 mm)
M) Rollback Fully Raised		12-16.5 with offset rims .....	68.0" (1727 mm)
@ Maximum Height .....	90°	33 X 15.5-16.5 .....	74.0" (1880 mm)
Carry Position .....	9.25" (235 mm)		

## PERFORMANCE

Rated Operating Capacity (SAE J732) .....	2200 lbs. (998 kg)
Rated Operating Capacity with Counterweight option .....	2300 lbs. (1043 kg)
Tipping Load (SAE) .....	4561 lbs. (2069kg)
Operating Weight (SAE) .....	7483 lbs. (3394 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) .....	4500 lbs. (4500 kg)
Tilt Breakout Force (SAE) .....	5000 lbs. (2268 kg)
Push Force .....	4400 lbs. (1996 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) 205 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)  
 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%)  
 with freeze protection to -34°F (-37°C)  
 Starting Aid ..... Intake Air Heater  
 Alternator ..... Belt driven; 90 amps; Open Frame with Internal Regulator  
 Battery ..... 12 volt; 950 cold cranking amps @ 0°F(-18°C);  
 180 minute reserve capacity  
 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)  
 Motor oil is not an acceptable alternative fluid

*Bore Diameter*

Lift Cylinder (2) ..... 2.50 in. (63,5 mm)  
 Tilt Cylinder (2) ..... 3.00 in. (76,2 mm)

*Rod Diameter*

Lift Cylinder (2) ..... 1.75 in. (44,5 mm)  
 Tilt Cylinder (2) ..... 1.50 in. (38,1 mm)

*Stroke*

Lift Cylinder (2) ..... 32.48 in. (825,0 mm)  
 Tilt Cylinder (2) ..... 15.1 in. (383,5 mm)

*Hydraulic Function Times*

Raise Lift Arms ..... 3.9 Seconds	Bucket Dump ..... 2.8 Seconds
Lower Lift Arms ..... 2.5 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

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