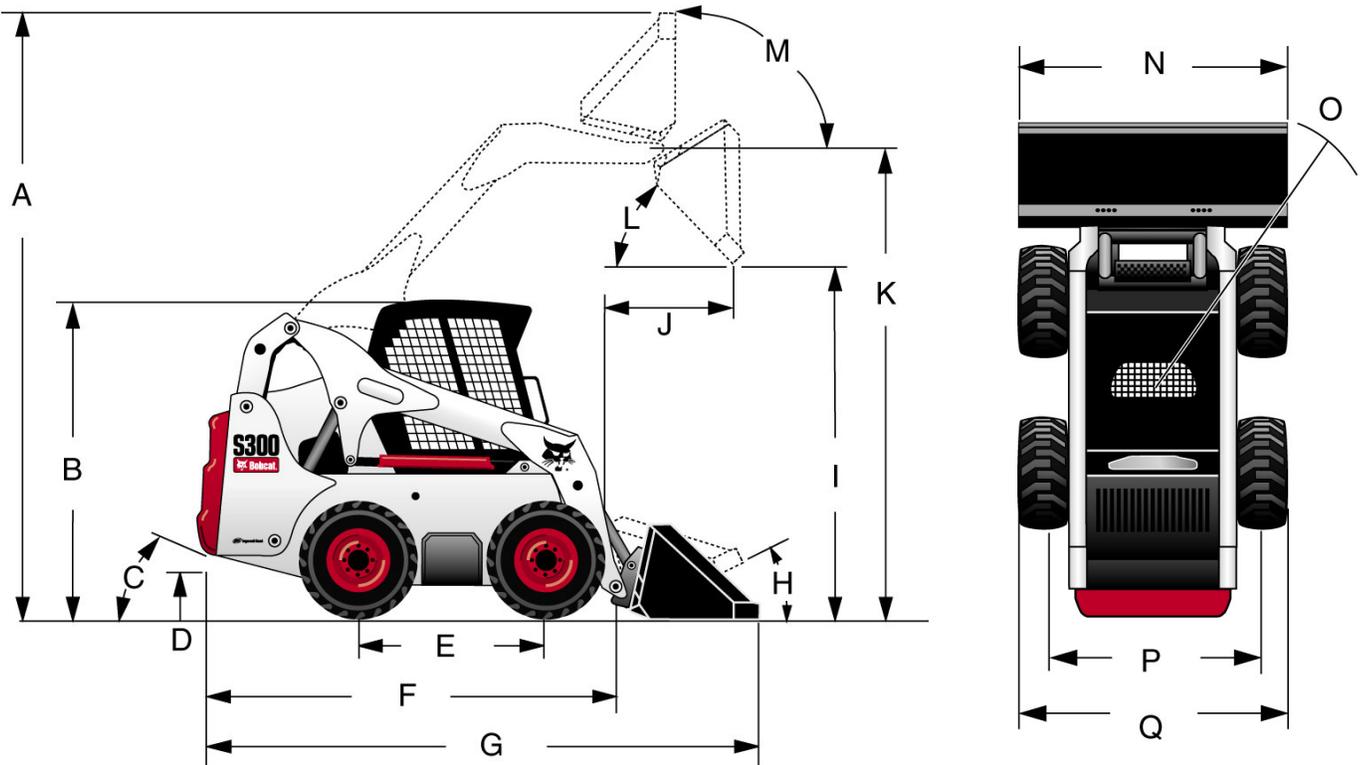


# S300 SKID-STEER LOADER SPECIFICATIONS

## DIMENSIONS



A) Operating Height .....	160.6" (4079 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)	80" Bucket .....	80.0" (2032 mm)
E) Wheelbase .....	48.3" (1227 mm)	O) Turning Radius	
F) Length without Attachment .....	114.5" (2908 mm)	with Standard Bucket .....	84.2" (2139 mm)
G) Length with Standard Bucket .....	142.9" (3630 mm)	Rear Clearance of Machine .....	62.2" (1579 mm)
H) Rollback @ Carry Position .....	32°	P) Wheel Tread	
I) Dump Height with Standard Bucket ..	99.1" (2517 mm)	12-16.5 .....	59.2" (1503 mm)
J) Dump Reach @ Maximum Height ...	33.8" (859 mm)	33 X 15.5-16.5 .....	59.2" (1503 mm)
K) Height to Bucket Hinge Pin .....	128.8" (3272 mm)	Q) Width (over tires)	
L) Dump Angle @ Maximum Height ....	42°	12-16.5 .....	72.0" (1829 mm)
M) Rollback Fully Raised		33 X 15.5-16.5 .....	74.0" (1880 mm)
@ Maximum Height .....	96°		
Carry Position .....	9.7" (246 mm)		

## PERFORMANCE

Rated Operating Capacity (SAE J732) .....	3000 lbs. (1361 kg)
Tipping Load (SAE) .....	6111 lbs. (2772 kg)
Operating Weight (SAE) .....	8268 lbs. (3758 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) .....	5350 lbs. (2427 kg)
Tilt Breakout Force (SAE) .....	5300 lbs. (2450 kg)
Push Force .....	5400 lbs. (2449 kg)

**ENGINE/ELECTRICAL**

Make/Model ..... Kubota V3800-DI-TE3  
 Fuel/Cooling ..... Diesel/Liquid  
 Horsepower, SAE Net ..... 78 HP (58,2 kW) @ 2400 RPM  
 Horsepower, SAE Gross ..... 81 HP (60,3 kW) @ 2400 RPM  
 Maximum Governed RPM ..... 2525-2575 RPM  
 Torque, Maximum ..... 217.6 LBF-FT (295 Nm) @ 1600 RPM  
 Number of Cylinders ..... 4  
 Displacement ..... 230 cu. in. (3,7 L)  
 Bore/Stroke ..... 3.94/4.72 (100/120)  
 Fuel Consumption ..... 2.63 gal/hr (9,08 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 ..... Diesel-Compression  
 Engine Coolant ..... Propylene Glycol  
 Starting Aid ..... Intake Air Heater  
 Alternator ..... Belt driven; 90 amps; Open  
 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) ..... 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 ..... 2.7 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

**INSTRUMENTATION**

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

**Standard Instrument Panel**

Gauges

- Engine Coolant Temperature
- Fuel
- Hourmeter

Indicators

- Advanced Control System (ACS)
- Attachment Control Device
- BICS Functions
- Intake Air Heater
- Selectable Joystick Control (SJC)

Warning Lights

- Engine Air Filter
- Engine Coolant Temperature
- Engine Oil Pressure
- Fuel Level
- General Warning
- Hydraulic Filter
- Hydraulic Oil Temperature
- Hydrostatic Charge Pressure
- Seat Belt
- System Voltage

**Deluxe Instrument Panel (Option)**

Same gauges, warning lights and other features as Standard Instrument Panel plus:

Bar-type gauges: ..... Engine Oil Pressure, System Voltage, Hydrostatic Charge Pressure and Hydraulic Oil Temperature

Additional features: ..... Keyless Start with password capability, Digital Clock, Job Clock, Attachments Information, Digital Tachometer, High Flow Lockouts, Multi-Language Display, Help Screens, Diagnostic Capability and Engine/Hydraulic Systems Shutdown Function

**ATTACHMENTS**

Angle Broom*	Drop Hammer	Rear Stabilizer	Tiller
Auger	Dumping Hopper	Scarifier	Tilt-Tatch
Backhoe	Flail Cutter	Seeder	Tracks, Steel
Box Blade	Grader*	Snow Blade	Trench Compactor
Brush Saw	Grapple, Farm/Utility	Snow V-Blade*	Trencher
Brushcat Rotary Cutter	Grapple, Industrial	Snowblower*	Utility Forks
Buckets	Hydraulic Breaker	Sod Layer	Utility Frame
Bucket Adapter	Landplane	Soil Conditioner*	Vibratory Roller
Chipper*	Landscape Rake	Spreader	Water Kit
Combination Bucket	Mower	Stump Grinder*	Wheel Saw*
Concrete Mixer*	Pallet Forks - Standard	Super Scraper	Whisker Broom
Digger	Pallet Forks - Hydraulic	Sweeper	
Dozer Blade*	Planer*	Three-Point Hitch	

See *Bobcat Product Price List* for specific attachment model availability. \*Requires Attachment Control Kit

**STANDARD FEATURES**

- Automatically Activated Air Intake Heater
- Auxiliary Hydraulics: Variable Flow/Max Flow
- Bob-Tach
- Bobcat Interlock Control System (BICS)
- Controls: Bobcat Standard
- Counterweights:
  - (4) Axle Weight Sets and (2) Tailgate plate weights
- Deluxe Operator Cab\* (Includes Interior Cab Foam, Top and Rear Windows, Dome Light, Electrical Power Port, Adjustable Vinyl Cushion Seat, Seat Bar, Seat Belt )
- Engine/Hydraulic Systems Shutdown
- Instrumentation - Standard Panel
- Lift Arm Support
- Lights, Front and Rear
- Parking Brake
- Spark Arrestor Muffler
- Tires: 12-16.5, 12 PR, Bobcat Heavy Duty
- Turbo-Charger

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

\*\* Falling Object Protective Structure (FOPS)—  
Meets requirements of SAE-J1043 and ISO 3449, Level 1

**FACTORY OPTIONS**

Advanced Control System (ACS)  
Selectable Joystick Control (SJC)  
Back-up Alarm and Horn

Engine Block Heater  
High Flow Auxiliary Hydraulics  
Hydraulic Bucket Positioning

**DEALER ACCESSORIES**

Attachment Control Kit  
Back-up Alarm  
Cab Accessory Harness  
Cab Enclosure  
Catalytic Exhaust Purifier  
Fire Extinguisher Kit  
FOPS Kit - Level II\*\*

Four-point Lift Kit  
Four-Way Flasher Light Kit  
Horn  
Hydraulic Bucket Positioning  
Locking Fuel Cap  
Power Bob-Tach  
Radio

Rear Auxiliary Hydraulics  
Ride Control  
Rotating Beacon Light  
Side Windows Kit  
Single-point Lift Kit  
Special Applications Kit  
Strobe Light Kit  
Tailgate Lock Kit

**AC/HEATED CAB PACKAGES****A91 Option Package**

Cab Enclosure with  
Heat/Air Conditioning  
Two Speed  
High Flow Hydraulics  
Power Bobtach  
Sound Reduction  
Suspension Seat  
Deluxe Instrumentation Panel  
Hydraulic Bucket Positioning  
Cab Accessory Harness  
Horn  
Backup Alarm  
Attachment Control Device  
Engine Block Heater

**A71 Option Package**

Cab Enclosure with  
Heat/Air Conditioning  
Power Bobtach  
Sound Reduction  
Suspension Seat  
Deluxe Instrumentation Panel  
Cab Accessory Harness  
Attachment Control Kit

**A51 Option Package**

Cab Enclosure with  
Heat/Air Conditioning  
Power Bobtach  
Suspension Seat  
Cab Accessory Harness

**A31 Option Package**

Cab Enclosure with  
Heat/Air Conditioning  
Suspension Seat  
Cab Accessory Harness

**HEATED CAB PACKAGES****H71 Option Package**

Cab Enclosure with Heat  
Power Bobtach  
Sound Reduction  
Suspension Seat  
Deluxe Instrumentation Panel  
Cab Accessory Harness  
Attachment Control Kit

**H51 Option Package**

Cab Enclosure with Heat  
Power Bobtach  
Suspension Seat  
Cab Accessory Harness

**H31 Option Package**

Cab Enclosure with Heat  
Suspension Seat  
Cab Accessory Harness

**OPEN CAB PACKAGES****O71 Option Package**

Power Bobtach  
Suspension Seat  
Deluxe Instrumentation Panel  
Cab Accessory Harness  
Attachment Control Kit

**O51 Option Package**

Suspension Seat  
Cab Accessory Harness  
Deluxe Instrumentation Panel

**O31 Option Package**

Suspension Seat  
Cab Accessory Harness

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**SAFETY**

## Bobcat Interlock Control System

(BICS) (Std.) .....	Requires the operator to be seated in the loader with the seatbar 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 33" (838 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.) .....	Use for servicing when lift arms are raised
Parking Brake (Std.) .....	Always set brake when leaving loader
Grab Handles (Std.) .....	Should always be used when entering/exiting loader
Safety Tread (Std.) .....	Slip resistant tread on lift arms and main frame to be used when entering/exiting loader
Attachment Steps (Std.) .....	Should always be used when entering/exiting loader
Rear Window (Std.) .....	For emergency exit
Front & Rear Working Lights (Std.) .....	Use for indoor and low light operation
Backup Alarm (Opt.) .....	For use in jobs with low visibility
Lift Kits (Opt.) .....	Lift kits are available so loader may be lifted into remote areas
Special Applications Kit (Opt.) .....	Restricts objects and material from entering cab openings
Operator's Handbook (Std.) .....	Weather resistant operator handbook written in English will be attached to inside of cab, providing operational instructions and warnings by decals with pictorials and international symbols plus some messages in four basic languages: English, French, German and Spanish.

**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

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