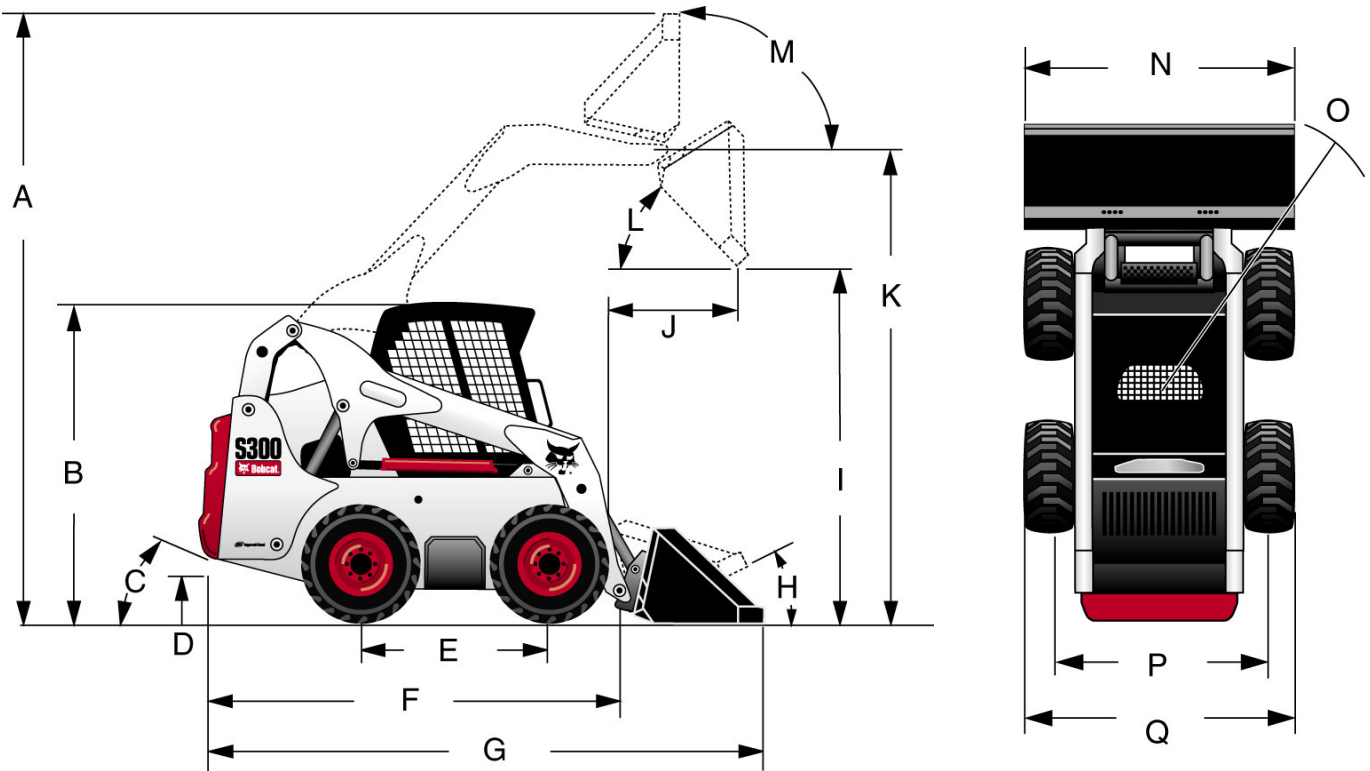


S300 SKID-STEER LOADER SPECIFICATIONS

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)	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

SAFETY

Bobcat Interlock Control System

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
