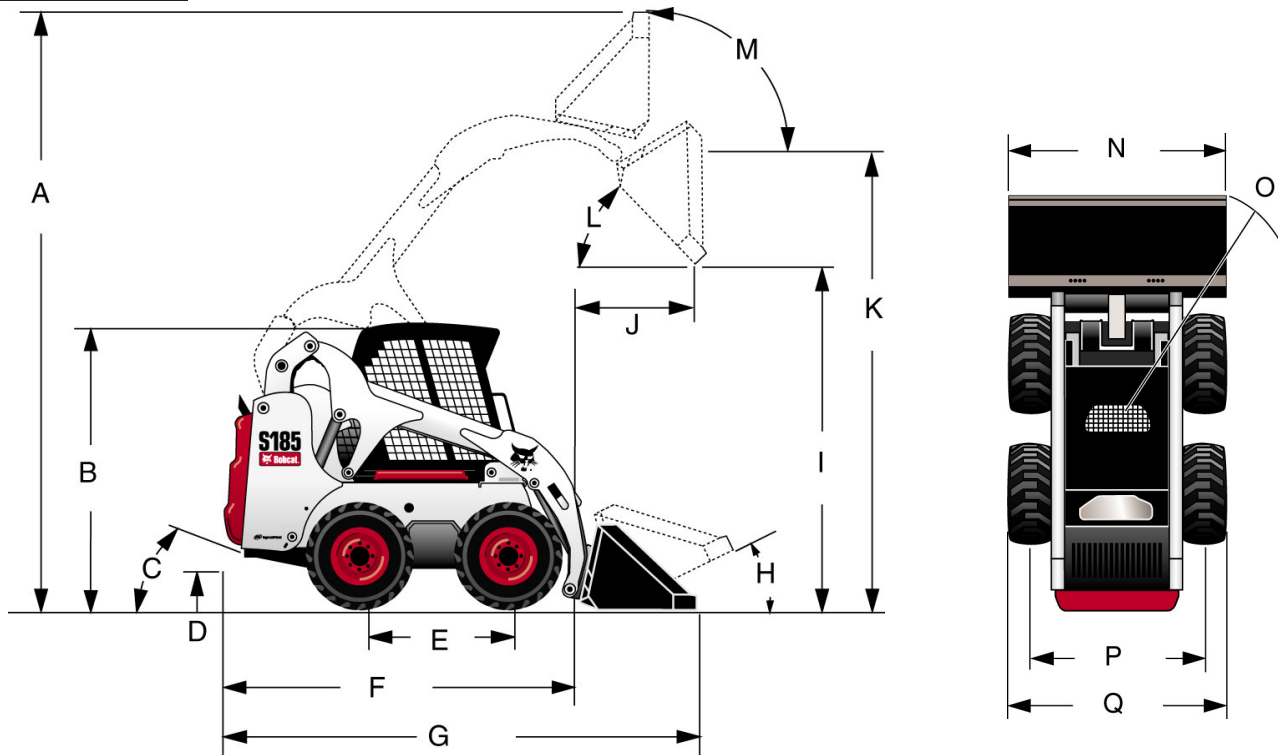


# S185 SKID-STEER LOADER SPECIFICATIONS

## DIMENSIONS



A) Operating Height .....	152.1" (3863 mm)	N) Width (over bucket)	
B) Height with Operator Cab .....	76.3" (1938 mm)	62" Bucket .....	62.0" (1575 mm)
C) Angle of Departure .....	23°	68" Bucket .....	68.0" (1727 mm)
D) Ground Clearance .....	7.5" (191 mm)	74" Bucket .....	74.0" (1880 mm)
E) Wheelbase .....	40.6" (1030 mm)	O) Turning Radius	
F) Length without Attachment .....	101.8" (2586 mm)	with Standard Bucket .....	78.8" (2001 mm)
G) Length with Standard Bucket .....	130.3" (3309 mm)	Rear Clearance of Machine .....	62.2" (1579 mm)
H) Rollback @ Carry Position .....	27°	P) Wheel Tread	
I) Dump Height with Standard Bucket .....	91.0" (2310 mm)	10-16.5 .....	56.4" (1433 mm)
J) Dump Reach @ Maximum Height .....	29.6" (752 mm)	10-16.5 with offset rims .....	48.5" (1232 mm)
K) Height to Bucket Hinge Pin .....	118.2" (3002 mm)	31.5x13-16.5 .....	58.4" (1483 mm)
L) Dump Angle @ Maximum Height .....	42°	Q) Width (over tires)	
M) Rollback Fully Raised		10-16.5 .....	66.0" (1676 mm)
@ Maximum Height .....	95°	10-16.5 with offset rims .....	60.0" (1524 mm)
Carry Position .....	9.0" (229 mm)	31.5x13-16.5 .....	71.6" (1818 mm)

## PERFORMANCE

Rated Operating Capacity (SAE J732) .....	1850 lbs. (839 kg)
Rated Operating Capacity with Counterweight option .....	1950 lbs. (885 kg)
Tipping Load (SAE) .....	4076 lbs. (1849 kg)
Operating Weight (SAE) .....	6220 lbs. (2821 kg)
Travel Speed .....	7.3 mph (11,8 km/hr)
Lift Breakout Force (SAE) .....	3500 lbs. (1588 kg)
Tilt Breakout Force (SAE) .....	3425 lbs. (1554 kg)
Push Force .....	4200 lbs. (1905 kg)

**ENGINE/ELECTRICAL**

Make/Model .....	Kubota/V2003-M-DI-TE28-BC-3
Fuel/Cooling .....	Diesel/Liquid
Horsepower (SAE Gross) .....	61 HP (45,5 kW)
Horsepower (SAE Net) .....	58 HP (43,3 kW)
Maximum Governed RPM .....	2800 RPM
Torque (SAE J1349 Net) .....	120.8 ft–lbs. (163,8 Nm) @ 1825 RPM
Number of Cylinders .....	4
Displacement .....	158.7 cu. in. (2,6 L)
Bore/Stroke .....	3.27/3.64 in. (83,1/92,4 mm)
Fuel Consumption .....	2.08 gph (7,87 L/h)
	Estimated fuel consumption is based on testing by Bobcat Company in high duty cycle digging applications.
Lubrication .....	Gear Pump Pressure
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 .....	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
High Flow .....	26.4 GPM (100 L/min) @ 3135 RPM
System Relief @ Quick Couplers ...	3350 PSI (23,1 MPa)
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
<i>Bore Diameter</i>	
Lift Cylinder (2) .....	2.50 in. (63,5 mm)
Tilt Cylinder (2) .....	2.75 in. (69,8 mm)
<i>Rod Diameter</i>	
Lift Cylinder (2) .....	1.50 in. (38,1 mm)
Tilt Cylinder (2) .....	1.375 in. (34,9 mm)
<i>Stroke</i>	
Lift Cylinder (2) .....	23.67 in. (601 mm)
Tilt Cylinder (2) .....	13.19 in. (335,0 mm)
<i>Hydraulic Function Times</i>	
Raise Lift Arms .....	3.5 Seconds
Lower Lift Arms .....	2.4 Seconds
Bucket Dump .....	2.4 Seconds
Bucket Rollback .....	1.9 Seconds

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**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 qts. (10,4 L)
Engine Oil with Filter .....	9.5 qts. (9,0 L)
Hydraulic/Hydrostatic 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
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**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

- Attachment Control Device
- BICS Functions
- Glow Plugs

Warning Lights

- Advanced Control System (ACS)
- 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*           | Dozer Blade             | Scarifier              | Tilt-Tatch       |
| Auger                  | Dumping Hopper          | Scraper                | Tracks, Steel    |
| Backhoe                | Grader*                 | Seeder                 | Tree Spade       |
| Bale Forks             | Grapple, Farm/Utility   | Snow Blade             | Trench Compactor |
| Box Blade              | Grapple, Industrial     | Snow V-Blade*          | Trencher         |
| Brush Saw              | Hydraulic Breaker       | Snowblower*            | Utility Forks    |
| Brushcat Rotary Cutter | Landplane               | Sod Layer              | Utility Frame    |
| Buckets                | Landscape Rake          | Soil Conditioner*      | Vibratory Roller |
| Bucket Adapter         | Mower                   | Spreader               | Water Kit        |
| Chipper*               | Packer Wheel            | Stabilizer, Quick Tach | Whisker Broom    |
| Combination Bucket     | Pallet Fork - Hydraulic | Sweeper                |                  |
| Concrete Mixer*        | Pallet Fork - Standard  | Three-Point Hitch      |                  |
| Digger                 | Planer                  | Tiller                 |                  |

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

**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****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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