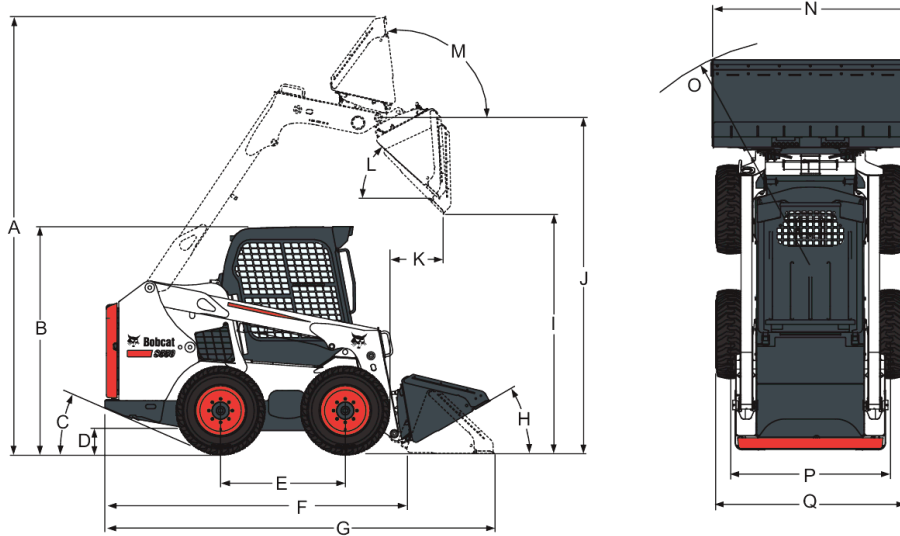


## Dimensions



(A) Operating height	3787.0 mm
(B) Height with operator cab	1972.0 mm
(C) Angle of departure	24.2°
(D) Ground clearance	185.0 mm
(E) Wheelbase	1082.0 mm
(F) Length without attachment	2657.0 mm
(G) Length with standard bucket	3378.0 mm
(H) Rollback at ground position	30.0°
(I) Dump height with standard bucket	2205.0 mm
(J) Height to bucket hinge pin	2908.0 mm
(K) Dump reach at maximum height	432.0 mm
(L) Dump angle at maximum height	42.0°
(M) Rollback fully raised at maximum height	97.0°
(N) Width over standard bucket	1727.0 mm
(O) Turning radius with standard bucket	2032.0 mm
(P) Track, standard tyres	1374.0 mm
(Q) Width over standard tyres	1643.0 mm

## Performance

Tipping load (ISO 14397-1)	1793 kg
Rated operating capacity (ISO 14397-1)	896 kg
Lift breakout force	1661 daN
Tilt breakout force	1620 daN
Push Force	2331 daN
Axle torque	5423.0 Nm

## Cycle Times

Raise lift arms	3.3 s
Lower lift arms	2.8 s
Bucket rollback	1.7 s
Bucket dump	2.3 s

## Weights

Operating weight	2818 kg
Shipping weight	2492 kg

## Engine

Make / Model	Bobcat / D24
Compliance	97/68 EC Stage IIIB
Fuel	Diesel
Cooling	Liquid
Power at 2600 RPM	45.5 kW
Torque at 1800 RPM (SAE J1995 Gross)	225.0 Nm
Number of cylinders	4
Displacement	2392 cm <sup>3</sup>
Bore	90.0 mm
Stroke	94.0 mm
Lubrication	Gear pump pressure
Crankcase ventilation	Closed breathing
Air filter	Dry replaceable cartridge with safety element
Ignition	Diesel-compression
Starting aid	Glow plugs

## Electrical

Alternator	Belt driven 90 A — open
Battery	12 V — 600 A cold cranking at -18°C — 115 min reserve
Starter	12 V — gear reduction type — 2.7 kW

## Hydraulic System

Pump type	Engine driven, gear type
Pump capacity	64.70 L/min
Pump capacity (with high flow option)	101.10 L/min
System relief at quick couplers	23.8-24.5 MPa
Control valve	Three-spool, open-centre type with float detent on lift and electrically controlled auxiliary spool
Hydraulic filter	Full-flow replaceable — 10 µm synthetic media element
Fluid lines	SAE standard tubelines, hoses, and fittings

## Hydraulic Cylinders

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Lift cylinder (2)	Double-acting
Lift cylinder bore	57.2 mm
Lift cylinder rod	38.1 mm
Lift cylinder stroke	698.5 mm
Tilt cylinder (2)	Double-acting
Tilt cylinder bore	69.9 mm
Tilt cylinder rod	38.1 mm
Tilt cylinder stroke	330.7 mm

## Drive System

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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.
Main drive	Fully hydrostatic; four-wheel drive
Axle size	50.3 mm, heat treated. Axle tubes welded to chaincase. Labyrinth axle seal protection.
Wheel bolts	Eight 9/16–inch wheel bolts fixed to axle hubs

## Traction

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Standard tyres	10 x 16.5, 10–ply, Bobcat heavy duty
Heavy duty tyres	10 x 16.5, 10–ply, Bobcat heavy duty, offset rims
Severe duty tyres	10 x 16.5, 10–ply, Bobcat severe duty
Poly fill tyres	10 x 16.5, 10–ply, Bobcat severe duty, poly filled
Solid flex tyres (option)	10 x 16.5, Bobcat solid flex
Float tyres	31 x 12-16.5, 10–ply, Bobcat superflotation
Max. travel speed (low range)	11.8 km/h
Max. travel speed (high range - option)	17.3 km/h

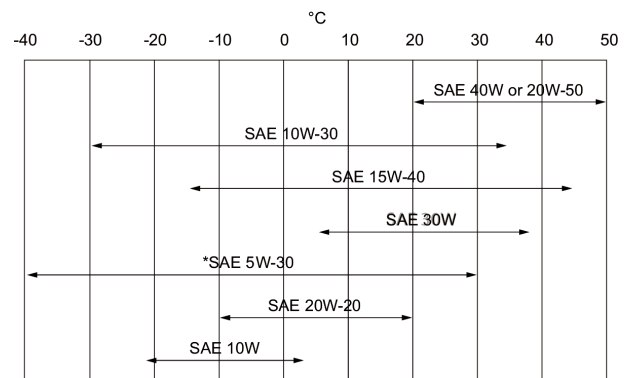
## Fluid Capacities

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Chaincase reservoir	32.20 L
Cooling system	10.60 L
Engine oil with filter	8.60 L
Fuel tank	93.70 L
Hydraulic reservoir	7.57 L
Hydraulic / Hydrostatic system	32.20 L

## Fluid Specifications

Engine coolant	Propylene glycol/water mix (53% - 47%) with freeze protection to -37°C 5 L can - 6904844A, 25 L container - 6904844B, 209 L drum - 6904844C, 1000 L tank - 6904844D
Engine oil	Oil must meet API Service Classification of CJ-4 or better, or ACEA E9-12 or better. Recommended SAE viscosity number for anticipated temperature range.



Hydraulic fluid	* Can be used only when available with appropriate diesel rating. For synthetic oil use the recommendation from the oil manufacturer. Bobcat Superior SH, 5 L can - 6904842A, 25 L container - 6904842B, 209 L drum - 6904842C, 1000 L tank - 6904842D Bobcat Bio Hydraulic, 5 L can - 6904843A, 25 L container - 6904843B, 209 L drum - 6904843C, 1000 L tank - 6904843D Motor oil is not an acceptable alternative fluid.
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## Controls

Engine Starting	Hand throttle or optional foot accelerator pedal (SJC) Key-type starter switch and shutdown or optional keyless start. Glow plugs automatically activated by Standard or Deluxe instrument panel.
Front auxiliary (standard) Rear auxiliary (optional) Loader hydraulics tilt and lift Service brake	Electrical switch on right-hand steering lever Electrical switch on left-hand steering lever Separate foot pedals or Selectable Joystick Controls (SJC) Two independent hydrostatic systems controlled by two hand-operated steering levers
Parking brake	Mechanical disc, hand-operated rocker switch on dash panel
Parking brake, two-speed option	Spring applied, pressure released multi-disk brake activated by rocker switch
Vehicle steering	Direction and speed controlled by two hand levers or optional Advanced Control System (ACS) or Selectable Joystick Controls (SJC)

Auxiliary pressure release

Pressure is relieved through the coupler block. Push in and hold for 5 s.

## Instrumentation

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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 audible alarm and visual warning lights.

### **Standard Instrument Panel**

- Gauges
  - Engine coolant temperature
  - Fuel
- Indicators
  - Bobcat Interlock Control System
  - Engine preheat
  - Two speed
  - Turn signals
- Warning lights
  - Engine coolant temperature
  - Fuel level
  - General warning
  - Seat belt
  - Seatbar down
  - Engine malfunction
  - Hydraulic system malfunction
  - Lift and tilt valve, hydraulics lock-out
  - Parking brake
  - Hydraulic oil temperature
  - Engine oil pressure
  - Hydraulic oil pressure
- Buttons
  - Work lights and road lights
  - High flow auxiliary hydraulics
  - Auxiliary hydraulics
  - Information (Hour meter, Engine RPM, Battery voltage, Service codes, Service reminder, Maintenance clock)
  - Traction lock override
  - Press to operate loader
- Rocker switch
  - Parking brake
- Alarm
  - Beep when error, warning or shutdown condition exists

### **Deluxe Instrument Panel**

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

- Gauges
  - Engine oil pressure / temperature
  - Hydrostatic charge pressure
  - Hydraulic oil temperature
  - Battery

- Additional features
  - Keyless start with password capability
  - Digital clock
  - User name and hourmeter
  - Attachments control information
  - Current job hours
  - High Flow lockouts
  - Multi-language display
  - Help screens
  - Diagnostic capability
  - Engine/hydraulic systems shutdown function
  - Password lockout
- Icons
  - Active warnings
  - Vitals (Engine speed, Oil Pressure, Temperature, System voltage, Hydraulic charge pressure, Oil temperature)
  - Service
  - Main screen
  - Attachments
  - Security
  - Display
- Buttons
  - Left scroll
  - Enter
  - Right scroll

## Serviceability

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Access is available to the following through the rear door/tailgate and rear screen:

- Air cleaner
- Alternator
- Battery
- Cooling radiators
- Engine oil and fuel filters
- Engine oil drain and dipstick
- Hydraulic oil fill
- Starter

Axle hubs provide protection for the axle seals

Bob-Tach™ pivots have replaceable wear bushings

Easy access to all 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

## Standard Features

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- 10 x 16.5, 10-ply, Heavy duty tyres
- Cushioned lift and tilt cylinders
- Bobcat Interlock Control System (BICS)
- Bob-Tach™ frame
- CE certification
- Deluxe operator cab with windows <sup>1</sup>
- Electrically activated proportional front auxiliary hydraulics
- Engine/hydraulics system shutdown

- High-back adjustable suspension seat
- Hydraulic bucket positioning (including ON/OFF switch)
- Manual
- Lift arm support
- Parking brake
- Seat bar
- Turbo-charger with approved spark arrestor
- Warranty: 24 months or 2000 hours (whichever occurs first)
- Work lights, front and rear

## Options

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- Factory Options
  - Advanced Control System (ACS)
  - Selectable Joystick Controls (SJC)
  - 2 Speed
  - Deluxe instrument panel
  - Deluxe pressurized cab with heating
  - Deluxe pressurized cab with HVAC
  - High-Flow hydraulics
  - Power Bob-Tach™
  - Back-up alarm
  - Beacon
  - Strobe
  - Radio
  - Road kit
  - 10 x 16.5, 10-ply, Heavy duty tyres, offset rims
  - 10 x 16.5, 10-ply, Severe duty tyres
  - 10 x 16.5, Solid Flex tyres
  - 31 x 12-16.5, 10-ply, Superflotation tyres

1. 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 I

- Dealer Installed Options
  - Cab enclosure kit
  - Special applications front door kit
  - Front axle counterweight kit
  - Deluxe instrument panel
  - Replacement Bob-Tach™
  - Fresh air heater kit
  - Front door kit
  - Door sensor kit
  - Plumbing kit for fresh air heater
  - Back up alarm kit
  - FOPS kit \*\*
  - Single-point lift kit
  - Power Bob-Tach™ kit
  - Operator cab, CE, enclosure kit
  - 7-pin attachment control
  - Four-point lift kit
  - Rear auxiliary hydraulic kit
  - Road kit
  - Keyless kit
  - Rear window wiper kit
  - 14-pin attachment control kit
  - 4-Way flasher kit
  - 80 mm Suspension seat kit
  - Cup holder kit
  - Headlight guard kit
  - Muffler guard kit
  - Tail light guard kit

## Attachments

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- Angle Brooms
- Auger Accessories
- Augers
- Backhoes
- Bale Forks
- Box Blades
- Breaker Accessories
- Breakers
- Brushcat™ Rotary Cutters
- Brush Saws
- Combination Buckets
- Concrete Mixers
- Concrete Pumps
- Construction / Industrial Buckets
- Diggers
- Dozer Blades
- Drop Hammers
- Dumping Hoppers
- Fertilizer and Grain Buckets
- Flail Cutters
- General Purpose (GP) Bucket
- Graders
- Mowers
- Pallet Fork Accessories
- Pallet Forks, Hydraulic
- Planer Accessories
- Planers
- Root Grapples
- Scarifiers
- Scrapers
- Skeleton Buckets
- Snow & Light Material Buckets
- Snow Blades
- Snow Pushers
- Snow V-Blades
- Sod Layers
- Soil Conditioners
- Spreaders
- Steel Tracks
- Stump Grinders
- Sweepers
- Tillers
- Tilt-Tatch
- Tree Transplanters



- Grapples, Industrial
- Landplanes
- Landscape Rakes
- Laser Equipment
- Low Profile Buckets
- Miscellaneous
- Mixing Buckets
- Trench Compactors
- Trenchers
- Utility Forks
- Vibratory Rollers
- Wheel Saws
- Whisker Brooms
- Wood Chippers

## Environmental

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Operator LpA(98/37 & 474-1)	85 dB(A)
Noise level LWA(EU Directive 2000/14/EC)	101 dB(A)
Whole body vibration (ISO 2631-1)	2.14 ms <sup>-2</sup>
Hand-arm vibration (ISO 5349-1)	0.59 ms <sup>-2</sup>