Hydraulic Cylinders

Tilt cylinder bore	69.90MM
Tilt cylinder stroke	330.70MM
Tilt cylinder rod	38.10MM
Tilt cylinder type	Double-acting with cushioning feature on dump and rollback
Lift cylinder rod	38.10MM
Lift cylinder bore	57.20MM
Lift cylinder type	Double-acting
Lift cylinder stroke	698.50MM

Performance

Push force	2406 kgKILOGRAMS
Tilt Breakout force (ISO 14397-2)	1485
Rated operating capacity (ISO 14397-1)	810.00KG
Lift Breakout force (ISO 14397-2)	1470
Tipping load (ISO 14397-1)	1619.00KG

Cycle Times

Raise lift arms	3.30
Bucket rollback	1.70
Bucket dump	2.30
Lower lift arms	2.80

Hydraulic System

System relief at quick couplers	23.8-24.5 MPa
Control valve	Three-spool, open-centre type with float detent o n lift and electrically controlled auxiliary spool
Hydraulic filter	Full-flow replaceable — 10 µm synthetic media element
Pump type	Engine driven, gear type
Fluid lines	SAE standard tubelines, hoses, and fittings
Pump capacity (with high flow option)	101.1 l/minLPM
Pump capacity	64.7 l/minLPM

Drive System

Main drive	Fully hydrostatic; four-wheel drive
Gradeability	11.00
Axle size	50.3 mm, heat treated. Axle tubes welded to chaincase. Labyrinth axle seal protection.
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 n o idler sprocket.
Wheel bolts	Eight 9/16–inch wheel bolts fixed to axle hubs

Traction

Max. travel speed - Low (Optional)	12.0 kmhKPH
Max. travel speed - High (Optional)	17.8 kmhKPH
Max. travel speed	12.0 kmhKPH

Brakes

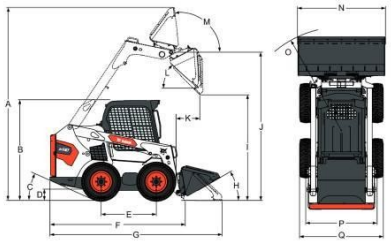
Parking brake	Mechanical disc, hand-operated rocker switch on dash panel

Fluid Capacities

Cooling system with heater	11.70L
Hydraulic / Hydrostatic system	31.80L
Engine oil with filter	8.70L
Cooling recovery bottle	2.8 lL
Fuel tank	93.70L
Transmission chaincase reservoir	32.20L
Cooling system without heater	11.4
Hydraulic / Hydrostatic reservoir	7.57L

Fluid Specifications

Dimensions



(E) 1082.00 MM	(O) 2032.00 MM
(D) 185.00 MM	(P) 1402 mm MM
(K) 432 mm MM	(G) 3378.00 MM
(L) 42.00	(I) 2205.00 MM
(H) 30.00	(A) 3787.00 MM
(B) 1972.00 MM	(M) 97.00
(F) 2657.00 MM	(N) 1727 mm MM
(J) 2908.00 MM	(C) 24.20
(Q) 1643.00 MM	

Engine coolant	5 L can - 6904844A, 25 L container - 6904844B, 209 L drum - 6904844C, 1000 L tank - 6904844D Propylene glycol/water mix (53% - 47%) with freeze protection to -37°C
Engine oil	* Can be used only when available with appropriate diesel rating. For synthetic oil use the recommendation from the oil manufacturer.
Oil	Must meet API Service Classification of CD, CE, CF4, CG4, or better. Recommended SAE viscosity number for anticipated temperature range.
Hydraulic fluid	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.	
Bobcat Superior SH, 5 L can - 6904842A, 25 L container - 6904842B, 209 L drum - 6904842C, 1000 L tank - 6904842D	

Controls

Service brake	Two independent hydrostatic systems controlled by two hand-operated steering levers
Auxiliary pressure release	Pressure is relieved through the coupler block. Push in and hold for 5 s.
Secondary brake	One of the hydrostatic transmissions
Starting	Key-type starter switch and shutdown or optional keyless start. Glow plugs automatically activated by Standard or Deluxe instrument panel.
Rear auxiliary (optional)	Electrical switch on left-hand steering lever
Engine	Hand lever throttle
Parking brake, two-speed option	Spring applied, pressure released multi-disk brake activated by rocker switch
Front auxiliary (standard)	Electrical switch on right-hand steering lever
Loader hydraulics tilt and lift	Separate foot pedals or Selectable Joystick Controls (SJC)
Vehicle steering	Direction and speed controlled by two hand levers

Electrical

Alternator	90 A open frame with internal regulator
Starter	12 V gear type 3.2 kW (4.29 HP)
Battery	12 V L2 EFB - 700 A cold cranking at -18°C - 110 min reserve capacity
Ignition Switch	Activates starter and instrumentation. Traction lock, lift lock, and tilt lock

Engine

Maximum torque at rated speed (SAE J1995)	117.0 nmNEWTON-M
Crankcase ventilation	Closed breathing
Displacement	2433.00
Stroke	102.40MM
Lubrication	Gear pump pressure
Make / Model	Kubota / V2403-MDI-E3
Compliancy	Interim Tier 4 (iT4)
Rated power speed	2700 rpmRPM
Fuel	Ultra low sulfur diesel no. 1 or 2
Cooling	Liquid
Maximum power at rated speed (ISO 14396)	46.1 kwKW
Ignition	Diesel-compression
Rated torque speed	1600 rpmRPM
Air filter	Dry replaceable cartridge with safety element
Number of cylinders	4
Bore	86.99MM

Weights

Operating Weight	2686.00KG
Shipping Weight	2343.00KG

Options

Factory Options	• 10 x 16.5, 10–ply, Versatile duty tyres
• 10 x 16.5, 10–ply, Heavy duty tyres, offset rims	• 10 x 16.5, 10–ply, Severe duty tyres
• 12 x 16.5, Solid flex tyres	• 31 x 12-16.5, 10–ply, Superflotation tyres
• Attachment control device	• Automatic Ride Control
• Automatic Reversing Fan	• Back-up alarm
• Beacon	• Bucket positioning kit
• Cloth Suspension Seat	• Custom paint color (min order of 5 units)
• Deluxe instrument panel	• Deluxe pressurized cab with heating

- Deluxe operator cab with windows
- Fire extinguisher
- Power Bob-Tach™
- Road Option
- Suspension seat
- Strobe
- 2 Speed

Dealer Installed Options

- Engine block heater kit
- Bucket positioning kit
- Rear window wiper kit
- 4-Way flasher kit
- Cup holder kit
- Muffler guard kit
- Cab enclosure kit
- 200 lbs (74.4 kg) counterweight kit
- Fuel cap locking kit
- Replacement Bob-Tach™
- Front door kit
- Plumbing kit for fresh air heater
- FOPS kit **
- Power Bob-Tach™ kit
- 7-pin attachment control
- Exhaust Shield
- High-Flow hydraulics
- Radio
- Sound option
- Selectable Joystick Controls (SJC)
- Tailgate lock kit
- EAC certification
- Rear auxiliary hydraulic kit
- Road kit
- Keyless kit
- 14-pin attachment control kit
- 80 mm Suspension seat kit
- Headlight guard kit
- Tail light guard kit
- Special applications front door kit
- Front axle counterweight kit
- Deluxe instrument panel
- Fresh air heater kit
- Door sensor kit
- Back up alarm kit
- Single-point lift kit
- Operator cab, enclosure kit
- Four-point lift kit

Instrumentation

Standard Instrument Panel

- Engine coolant temperature
- Indicators
  - Engine preheat
  - Turn signals
  - Engine coolant temperature
  - General warning
  - Seatbar down
  - Hydraulic system malfunction
  - Parking brake
  - Engine oil pressure
- Buttons
  - High flow auxiliary hydraulics
  - Information (Hour meter, Engine RPM, Battery voltage, Service codes, Service reminder, Maintenance clock)
  - Press to operate loader
  - Parking brake
  - Beep when error, warning or shutdown condition exists

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

- Engine oil pressure / temperature
- Hydraulic oil temperature
- Additional features
  - Digital clock
  - Attachments control information
  - High Flow lockouts
  - Help screens
  - Engine/hydraulic systems shutdown function
- Icons
  - Vitals (Engine speed, Oil Pressure, Temperature , System voltage, Hydraulic charge pressure, Oil temperature)
  - Main screen
  - Security
- Buttons
  - Enter
- Gauges
  - Fuel
  - Bobcat Interlock Control System
  - Two speed
- Warning lights
  - Fuel level
  - Seat belt
  - Engine malfunction
  - Lift and tilt valve, hydraulics lock-out
  - Hydraulic oil temperature
  - Hydraulic oil pressure
  - Work lights and road lights
  - Auxiliary hydraulics
  - Traction lock override
- Rocker switch
- Alarm

Deluxe Instrument Panel

- Gauges
  - Hydrostatic charge pressure
  - Battery
- Additional features
  - Keyless start with password capability
  - User name and hourmeter
  - Current job hours
  - Multi-language display
  - Diagnostic capability
  - Password lockout
- Icons
  - Active warnings
  - Service
  - Attachments
  - Display
- Buttons
  - Left scroll
  - Right scroll

Serviceability

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

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

Bob-Tach™ pivots have replaceable wear bushings

Rod end of the tilt cylinder has a replaceable bushing

Tailgate is equipped with door-stop to hold door open while servicing

Axle hubs provide protection for the axle seals

Easy access to all grease points

Tailgate has an optional lock for vandal-proofing

Tip-up operator cab gives access to certain hydraulic system components

Attachments

- Angle Brooms
- Auger Accessories
- Augers
- Backhoes
- Bale Forks
- Box Blades
- Breaker Accessories
- Breakers
- Brush Saws
- Brushcat™ Rotary Cutters
- Combination Buckets
- Concrete Mixers
- Construction / Industrial Buckets
- Diggers
- Dozer Blades
- Drop Hammers
- Dumping Hoppers
- Fertilizer and Grain Buckets
- Flail Cutters
- General Purpose (GP) Bucket
- Graders
- Grapples, Industrial
- Landplanes
- Landscape Rakes
- Laser Equipment
- Low Profile Buckets
- Miscellaneous
- Mixing Buckets
- Mowers
- Pallet Fork Accessories
- Pallet Forks, Hydraulic
- 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
- Trench Compactors
- Utility Forks
- Vibratory Rollers
- Whisker Brooms
- Wood Chippers

Standard Features

- 10 x 16.5, 10–ply, Heavy duty tyres
- Automatically activated glow plugs
- Auxiliary hydraulics: variable flow/maximum flo w
- Bob-Tach™ frame
- Bobcat Interlock Control System (BICS)
- Electrically activated proportional front auxiliary hydraulics
- Engine/hydraulics system shutdown
- Manual
- Lift arm support
- Parking brake
- Spark arrestor muffler
- Standard Cab with rear window
- 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
- Standard Seat
- Seat belt
- Seat bar
- Work lights, front and rear
- Warranty: 24 months or 2000 hours (whichever occurs first)
- Note: Standard features depends on country selection.