Hydraulic Cylinders

Lift cylinder bore	69.90MM
Tilt cylinder stroke	330.70MM
Lift cylinder type	Double-acting
Tilt cylinder type	Double-acting with cushioning feature on dump and rollback
Tilt cylinder bore	69.90MM
Tilt cylinder rod	38.10MM
Lift cylinder rod	41.40MM
Lift cylinder stroke	540.00MM

Performance

Lift Breakout force (ISO 14397-2)	2092
Tipping load (ISO 14397-1)	1823.00KG
Tilt Breakout force (ISO 14397-2)	2177
Push force	2503
Rated operating capacity (ISO 14397-1)	911.00KG

Cycle Times

Bucket dump	2.50
Bucket rollback	1.80
Lower lift arms	2.70
Raise lift arms	3.90

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
Fluid lines	SAE standard tubelines, hoses, and fittings
Pump capacity	64.70
Hydraulic filter	Full-flow replaceable — 10 µm synthetic media element
Pump type	Engine driven, gear type
Pump capacity (with high flow option)	101.10

Drive System

Gradeability	20° Continuous and 30° Intermittent
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
Main drive	Fully hydrostatic; four-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 n o idler sprocket.

Traction

Max. travel speed - High (Optional)	18.2 kmhKPH
Max. travel speed	12.2 kmhKPH
Max. travel speed - Low (Optional)	12.2 kmhKPH

Brakes

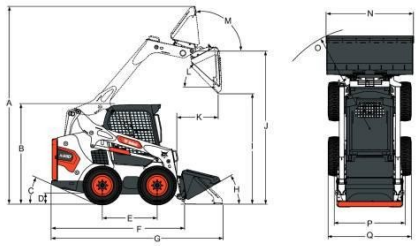
Parking brake	Mechanical disc activated by manually operated switch on left instrument panel

Fluid Capacities

Transmission chaincase reservoir	32.20L
Hydraulic / Hydrostatic system	36.00L
Engine oil with filter	8.60L
Fuel tank	93.70L
Cooling system with heater	10.90L
Cooling system without heater	10.6
Cooling recovery bottle	2.8 lL
Hydraulic / Hydrostatic reservoir	7.57L

Fluid Specifications

Dimensions



(I) 2319 mm MM	(P) 1402 mm MM
(F) 2657.00 MM	(K) 828.00 MM
(J) 3023.00 MM	(C) 24.20
(A) 3901.00 MM	(H) 30.00
(E) 1082.00 MM	(Q) 1643.00 MM
(N) 1727 mm MM	(D) 185.00 MM
(G) 3378.00 MM	(M) 97.00
(B) 1972.00 MM	(L) 42.00
(O) 2024.00 MM	

Engine oil	Do not use API Category FA-4 engine oil. [1] SA E 10W-30 [2] SAE 15W-40 Refer to temperature range anticipated before next oil change. Bobca t engine oils are recommended for use in this machine. If Bobcat engine oil is not available, use a good quality engine oil that meets API Service Category of CI-4 or better, or ACEA E7 or better Must use API Category CI-4 or better, or ACEA E7 or Bobcat engine oils are recommended fo r use in this machine. If Bobcat engine oil is not available, use a good quality engine oil tha t meets API Service Category of CI-4 or better, or ACEA E7 or better * Can be used only when available with appropriate diesel rating. For synthetic oil use the recommendation from the oil manufacturer. [3] Bobcat Synthetic Oil – SAE 5W -40 better.
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 freez e protection to -37°C
Hydraulic fluid	Motor oil is not an acceptable alternative fluid . Bobcat Bio Hydraulic, 5 L can - 6904843A, 25 L container - 6904843B, 209 L drum - 6904843C, 1000 L tank - 6904843D Bobcat Superior SH, 5 L can - 6904842A, 25 L container - 6904842B, 209 L drum - 6904842C, 1000 L tank - 6904842D

Controls

Front auxiliary (standard)	Proporcional switch on Hand Levers or optional Selectable Joystick Controls (SJC)
Auxiliary pressure release	Pressure is relieved through the coupler block. Push in and hold for 5 s.
Loader hydraulics tilt and lift	Foot Pedals or optional Selectable Joystick Controls (SJC)
Rear auxiliary (optional)	Electrical switch on left-hand steering lever or joystick (SJC)
Service brake	Two independent hydrostatic systems controlled by two hand-operated steering levers
Engine	Hand throttle or optional foot accelerator pedal (SJC)
Vehicle steering	Hand Levers or optional Selectable Joystick Controls (SJC)
Starting	Keyless start. Glow plugs automatically activated.
Parking brake, two-speed option	Spring applied, pressure released multi-disk brak e activated by rocker switch

Environmental

Whole body vibration (ISO 2631-1)	0.93 m/s2MPERS2
Hand-arm vibration (ISO 5349-1)	1.30 m/s2MPERS2
Whole body vibration (ISO 2631-1) uncertainty	0.37 m/s2MPERS2
Operator position noise level LpA (EU Directive 2006/42/EC)	84 dbDB
Bystander noise level LwA (EU Directive 2000/14/EC)	99 dbDB

Electrical

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

Engine

Crankcase ventilation	Closed breathing
Rated torque speed	1800 rpmRPM
Stroke	94.00MM
Number of cylinders	4

Maximum power at rated speed (ISO 14396)	41 kwKW
Air filter	Dry replaceable cartridge with safety element
Displacement	2392.00
Lubrication	Gear pump pressure
Bore	90.00MM
Maximum torque at rated speed (SAE J1995)	152.5 nmNEWTON-M
Compliancy	Stage V (V)
Rated power speed	2600 rpmRPM
Fuel	Ultra low sulfur diesel no. 1 or 2
Cooling	Liquid
Ignition	Diesel-compression
Make / Model	DOOSAN INFRACORE / 2.4L BOBCAT ENGINE

Weights

Operating Weight	2952.00KG
Shipping Weight	2581.00KG

Options

Factory Options

- Deluxe pressurized cab with HVAC
- Cloth Suspension Seat
- 10 x 16.5, 10–ply, Versatile duty tyres
- 31 x 10 - 20, Industrial duty tyres
- 7-pin attachment control
- Power Bob-Tach™
- Radio
- Work Lights LED
- Automatic Ride Control
- Custom paint color (min order of 5 units)
- Deluxe pressurized cab with heating
- Selectable Joystick Controls (SJC - R/C Ready)
- 10 x 16.5, 10–ply, Heavy duty tyres, offset rims
- 10 x 16.5, 10–ply, Severe duty tyres
- High-flow auxiliary hydraulics
- 2 Speed
- Back-up alarm
- Beacon
- Road Option
- Automatic Reversing Fan

Dealer Installed Options

- 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
- 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, CE, enclosure kit
- Four-point lift kit
- Engine block heater kit
- Bucket positioning kit
- Rear window wiper kit
- 4-Way flasher kit
- Cup holder kit
- Muffler guard kit

Instrumentation

Standard Instrument Panel

- 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
- Gauges
  - Engine coolant temperature
  - 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

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

- Keyless start with password capability
- User name and hourmeter
- Current job hours
- Multi-language display
- Auto Idle
- Diagnostic capability
- Password lockout
- Additional features
  - Digital clock
  - Attachments control information
  - High Flow lockouts
  - Help screens
  - DPF Management
  - Engine/hydraulic systems shutdown function
- Icons

- Active warnings
- Vitals (Engine speed, Oil Pressure, Temperature , System voltage, Hydraulic charge pressure, Oil temperature)
- Service
- Main screen
- Attachments
- Security
- DPF Regeneration
- HEST Lamp
- Inhibit DPF Regeneration
- Forced Parked Regeneration
- Display
- Buttons
- Left scroll
- Enter
- Right scroll
- Gauges
- Engine oil pressure / temperature
- Hydrostatic charge pressure
- Hydraulic oil temperature
- Battery

Serviceability

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
- HVAC system
- 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

Attachments

- Auger Accessories
- Augers
- Backhoes
- Bale Forks
- Box Blades
- Breaker Accessories
- Breakers
- Brush Saws
- Brushcat™ Rotary Cutters
- Combination Buckets
- Concrete Mixers
- Diggers
- Dozer Blades
- Drop Hammers
- Dumping Hoppers
- Flail Cutters
- Graders
- Grapples, Industrial
- Landplanes
- Landscape Rakes
- Laser Equipment
- Miscellaneous
- Mixing Buckets
- Mowers
- Pallet Fork Accessories
- Pallet Forks, Hydraulic
- Planer Accessories
- Planers
- Rear Stabilizers
- Root Grapples
- Scarifiers
- Scrapers
- Seeders
- Skeleton 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
- Trenchers
- Utility Forks
- Utility Frames
- Vibratory Rollers
- Wood Chippers

Standard Features

- Bobcat Interlock Control System (BICS)
- Parking brake
- Deluxe operator cab* Includes interior cab foam , side, top and rear windows, Deluxe wire harness , dome light and electrical power port
- 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
- Noise reduction kit
- Operating lights, front and rear
- Deluxe instrument panel
- Suspension seat
- Seat belt
- Seat bar
- Hydraulic bucket positioning (including ON/OFF switch)
- 10 x 16.5, 10–ply, Heavy duty tyres
- Spark Arrester
- Bob-Tach™ frame
- Cushioned lift and tilt cylinders
- Lift arm support
- Engine/hydraulics system shutdown
- Automatically activated glow plugs
- Electrically activated proportional front auxiliary hydraulics
- Auxiliary hydraulics: variable flow/maximum flo w
- Machine IQ (telematic)
- Manual
- CE certification
- Warranty: 24 months or 2000 hours (whichever occurs first)

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