Hydraulic Cylinders

Lift cylinder rod	31.80MM
Lift cylinder stroke	665.2 mmMM
Tilt cylinder stroke	353.8 mmMM
Tilt cylinder type	Double-acting with cushioning feature on dump and rollback
Tilt cylinder bore	60.4 mmMM
Lift cylinder type	Double-acting
Tilt cylinder rod	31.80MM
Lift cylinder bore	50.80MM

Performance

Push force	2048 kgKILOGRAMS
Tilt Breakout force (ISO 14397-2)	1777 kgKILOGRAMS
Rated operating capacity (ISO 14397-1)	654.00KG
Tipping load (ISO 14397-1)	1308.00KG
Lift Breakout force (ISO 14397-2)	1386 kgKILOGRAMS

Cycle Times

Bucket dump	1.80
Lower lift arms	2.00
Raise lift arms	2.50
Bucket rollback	1.50

Hydraulic System

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
System relief at quick couplers	22.4-23.1 MPa
Hydraulic filter	Full-flow replaceable — 10 µm synthetic media element
Pump capacity	63.20
Pump type	Engine driven, gear type

Drive System

Gradeability	20° Continuous and 30° Intermittent
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.
Main drive	Fully hydrostatic; four-wheel drive
Transmission	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors
Axle size	50.8 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

Max. travel speed	7.6 kmhKPH
Max. travel speed - Low (Optional)	6.5 kmhKPH
Max. travel speed - High (Optional)	9.2 kmhKPH

Brakes

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

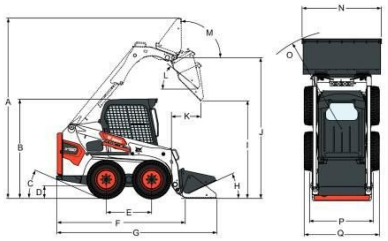
Fluid Capacities

Cooling system without heater	11.3
Hydraulic / Hydrostatic reservoir	5.30L
Transmission chaincase reservoir	21.00L
Hydraulic / Hydrostatic system	21.00L
Fuel tank	53.80L
Engine oil with filter	8.6 lL
Cooling recovery bottle	2.8 lL
Cooling system with heater	12.3

Fluid Specifications

Engine oil	Must use API Category CI-4 or better, or ACEA E7

Dimensions



(E) 899.2 mm MM	(H) 26.00
(N) 1574.8 mm MM	(B) 1976.1 mm MM
(L) 40.00	(F) 2499.4 mm MM
(C) 23.00	(O) 1940.6 mm MM
(I) 2156.5 mm MM	(A) 3558.5 mm MM
(J) 2781.3 mm MM	(D) 213.4 mm MM
(Q) 1488.4 mm MM	(M) 91.00
(P) 1249.7 mm MM	(G) 3172.5 mm MM
(K) 528.3 mm MM	

better.
[2] SAE 15W-40
Must use API Categor
better.
Refer to
oil
Bobcat engine oils are recommended for
Do not use API Category FA-4
[3] Bobcat Synthetic Oil – SAE 5W-4
* Can be used only when available with
oil change.
[1] SAE 10W-30
or
y CI-4 or better, or ACEA E7 or
temperature range anticipated before next
change.
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
engine oil.
0
appropriate diesel rating. For synthetic oil use the recommendation from the oil manufacturer.
Refer to temperature range anticipated before nex
t

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	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

Front auxiliary (standard)	Proporcional switch on Hand Levers or optional Selectable Joystick Controls (SJC)
Engine	Hand throttle or optional foot accelerator pedal (SJC)
Service brake	Two independent hydrostatic systems controlled by two hand-operated steering levers
Secondary brake	One of the hydrostatic transmissions
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)
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
Vehicle steering	Hand Levers or optional Selectable Joystick Controls (SJC)

Environmental

Whole body vibration (ISO 2631-1)	0.78 m/s2MPERS2
Whole body vibration (ISO 2631-1) uncertainty	0.39 m/s2MPERS2
Operator position noise level LpA (EU Directive 2006/42/EC)	88 dbDB
Bystander noise level LwA (EU Directive 2000/14/EC)	99 dbDB
Hand-arm vibration (ISO 5349-1)	1.29 m/s2MPERS2

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

Air filter	Dry replaceable cartridge with safety element
Rated torque speed	1800 rpmRPM
Rated power speed	2600 rpmRPM
Fuel	Ultra low sulfur diesel no. 1 or 2
Cooling	Liquid
Maximum torque at rated speed (SAE J1995)	184.5 nmNEWTON-M
Stroke	94.00MM
Compliancy	Stage V (V)

Ignition	Diesel-compression
Crankcase ventilation	Closed breathing
Displacement	2393.00
Lubrication	Gear pump pressure
Number of cylinders	4
Bore	90.00MM
Make / Model	DOOSAN INFRACORE / 2.4L BOBCAT ENGINE DM02-MFL02
Maximum power at rated speed (ISO 14396)	36.5 kwKW

Weights

Operating Weight	2436 kgKG
Shipping Weight	2221.00KG

Options

Factory Options

- Deluxe pressurized cab with HVAC
- Cloth Suspension Seat
- 31 x 10 - 20, Industrial duty tyres
- Hydraulic bucket positioning (including ON/OFF switch)
- Radio
- Back-up alarm
- Work Lights LED
- Custom paint color (min order of 5 units)
- Rear Camera with Display 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
- 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
- Deluxe pressurized cab with heating
- Selectable Joystick Controls with 2 Speed (SJC - R/C Ready)
- 10 x 16.5, 10–ply, Versatile duty tyres
- 10 x 16.5, 10–ply, Severe duty tyres
- Power Bob-Tach™
- Strobe
- Beacon
- Road Option

Dealer Installed Options

- Ride control
- 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

- Engine coolant temperature
- Indicators
  - Engine preheat
  - Turn signals
  - Engine coolant temperature
  - General warning
  - Seatbar down
  - Hydraulic system malfunction
  - Parking brake
  - Engine oil pressure
- Buttons
  - Work lights and road lights
  - 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
  - DPF Management
  - Engine/hydraulic systems shutdown function
- Icons
  - Vitals (Engine speed, Oil Pressure, Temperature
- 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
  - Auto idle switch
  - Auxiliary hydraulics
  - Traction lock override
- Rocker switch
- Alarm

Deluxe Instrument Panel

- Gauges
  - Hydrostatic charge pressure
  - Battery
- Keyless start with password capability
  - User name and hourmeter
  - Current job hours
  - Multi-language display
  - Auto Idle
  - Diagnostic capability
  - Password lockout
  - Active warnings

, System voltage, Hydraulic charge pressure, Oil temperature)
◦ Main screen
◦ Security
◦ HEST Lamp
◦ Forced Parked Regeneration
• Buttons
◦ Enter
◦ Service
◦ Attachments
◦ DPF Regeneration
◦ Inhibit DPF Regeneration
◦ Display
◦ 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
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
• Air cleaner
• Battery
• Engine oil and fuel filters
• Hydraulic oil fill
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

• Spreader
• Steel Tracks
• Sweepers
• Tilt-Tatch
• Trench Compactors
• Utility Forks
• Vibratory Rollers
• Wood Chippers
• Auger Accessories
• Backhoe Accessories
• Bale Forks
• Box Blades
• Breakers
• Brushcat™ Rotary Cutters
• Concrete Mixers
• Construction / Industrial Buckets
• Dozer Blades
• Dumping Hoppers
• Forestry Cutters
• Grapples, Industrial
• Landscape Rakes
• Low Profile Buckets
• Mixing Buckets
• Pallet Fork Accessories
• Pallet Forks, Standard
• Planers
• Remote Control
• Rotary Grinders
• Scarifiers
• Seeders
• Skeleton Buckets
• Snow Pushers
• Sod Layers
• Spreaders
• Stump Grinders
• Tillers
• Tree Transplanters
• Trenchers
• Utility Frames
• Wheel Saws
• Soil Conditioners
• Augers
• Backhoes
• Boring Units
• Breaker Accessories
• Brush Saws
• Combination Buckets
• Concrete Pumps
• Diggers
• Drop Hammers
• Flail Cutters
• Graders
• Landplanes
• Laser Equipment
• Miscellaneous
• Mowers
• Pallet Forks, Hydraulic
• Planer Accessories
• Rear Stabilizers
• Root Grapples
• Sand Cleaners
• Scrapers
• Silt Fence Installers
• Snow Blades
• Snow V-Blades

Standard Features

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

occurs first)

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