Hydraulic Cylinders

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

Performance

Tipping load (ISO 14397-1)	2773 kgKG
Ground pressure	40 kPaKPA
Rated operating capacity (ISO 14397-1)	971 kgKG
Push force	3573 kgKILOGRAMS
Lift Breakout force (ISO 14397-2)	2179 kgKILOGRAMS
Tilt Breakout force (ISO 14397-2)	2269 kgKILOGRAMS

Cycle Times

Lower lift arms	2.80
Bucket dump	2.50
Bucket rollback	1.70
Raise lift arms	4.00

Hydraulic System

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

Drive System

Tracks	320 mm wide, rubber
320 mm width. Tension-grease	cylinder and triple-flange spring rollers

Traction

Max. travel speed - High (Optional)	16.0 kmhKPH
Max. travel speed	10.4 kmhKPH

Brakes

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

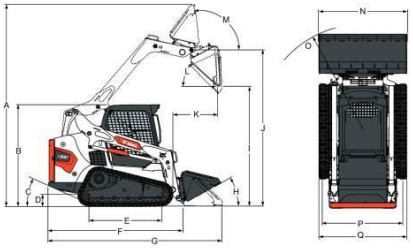
Fluid Capacities

Cooling system with heater	10.90L
Cooling recovery bottle	2.8 lL
Hydraulic / Hydrostatic system	36.00L
Cooling system without heater	10.60L
Hydraulic / Hydrostatic reservoir	7.57L
Engine oil with filter	8.6 lL
Fuel tank	138.20L

Fluid Specifications

Engine oil	For synthetic oil use the recommendation from the oil manufacturer.
Recommended SAE viscosity	number for anticipated temperature range.
Oil	must meet API Service Classification of CJ-4 or better, or ACEA E9 or better.
* Can be used only	when available with appropriate diesel rating.
Engine coolant	209 L drum - 6904844C
Bobcat PG Coolant 1000 L	tank - 6904844D
5 L can - 6904844A	
25 L	

Dimensions



(B) 1972.00 MM	(I) 2319.00 MM
(D) 188.00 MM	(F) 2657.00 MM
(M) 97.00	(O) 2032 mm MM
(K) 887.00 MM	(A) 3901.00 MM
(L) 42.00	(G) 3378.00 MM
(Q) 1702 mm MM	(P) 1628 mm MM
(J) 3023.00 MM	(C) 27.80
(N) 1727 mm MM	(H) 30.00
(E) 1374 mm MM	

	container - 6904844B
Hydraulic fluid 1000 L tank - 6904842D 25 L	Bobcat Superior SH
1000 L tank - 6904843D 5 L	container - 6904843B
5 L can - 6904843A 25 L containe	can - 6904842A
209 L drum - 6904843C 209 L drum -	r - 6904842B
Bobcat Bio Hydraulic	6904842C

Controls

Front auxiliary (standard)	Proporcional switch on Hand Levers or optional Selectable Joystick Controls (SJC)
Starting	Keyless start. Glow plugs automatically activated.
Rear auxiliary (optional)	Electrical switch on left-hand steering lever or joystick (SJC)
Vehicle steering	Hand Levers or optional Selectable Joystick Controls (SJC)
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.
Loader hydraulics tilt and lift	Foot Pedals or optional Selectable Joystick Controls (SJC)
Engine	Hand throttle or optional foot accelerator pedal (SJC)

Environmental

Hand-arm vibration (ISO 5349-1)	2.29
Bystander noise level LwA (EU Directive 2000/14/EC)	101 dbDB
Whole body vibration (ISO 2631-1) uncertainty	0.42 msMS
Operator position noise level LpA (EU Directive 2006/42/EC)	82 dbDB
Whole body vibration (ISO 2631-1)	0.84

Safety

Seat bar, standard	Secondary operator restraint, also serves as an arm rest.
Operator handbook, standard	Weather-resistant operator handbook attached to the inside of the cab, providing operational instructions and warnings decals with pictorials and international symbols.
Special applications kit, optional	Restricts objects and material from entering cab openings.
Back-up alarm, optional	For use in areas with high traffic
Grab handles, standard	Should always be used when entering/exiting loader.
Seat belt, standard	Should always be worn when operating the loader. Three-point shoulder belt provides restraint for high range speeds.
Lift kits, optional	Lift kits are available so loader may be lifted into remote areas.
Parking brake, standard	Always set brake when leaving loader.
Lift arm bypass control, standard	Used to lower the lift arms in the event that th e lift arms cannot be lowered during normal operating conditions.
Front and rear work lights, standard	Use for indoor and low light operation.
Lift arm support, standard	Use for servicing when lift arms are raised.
Attachment steps, standard	Should always be used when entering/exiting loader.
Rear window, standard	For emergency exit.
Bobcat Interlock Control System (BICS), standard	Requires the operator to be seated in the loader with the seat bar in place and the engine running . After the operator presses the “Press to Operat e Loader” button, the loader's hydraulic lift and tilt functions and traction drive can be operated.
Operator cab, standard	An enclosed operator cab with side screens with a minimal inside cab width of 838 mm. 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.
Safety tread, standard	Slip resistant tread on lift arms and main frame to be used when entering/exiting loader.

Electrical

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
Battery	12 V L2 EFB - 700 A cold cranking at -18°C - 110 min reserve capacity

Engine

Compliancy	Stage V (V)
Fuel	Ultra low sulfur diesel no. 1 or 2
Lubrication	Gear pump pressure
Cooling	Liquid
Make / Model	DOOSAN INFRACORE / 2.4L BOBCAT ENGINE DM02-MFL03
Maximum torque at rated speed (SAE J1995)	186.8 nmNEWTON-M
Rated torque speed	1800 rpmRPM
Air filter	Dry replaceable cartridge with safety element
Displacement	2392.00
Maximum power at rated speed (ISO 14396)	68.0 kwKW
Crankcase ventilation	Closed breathing
Stroke	94.00MM
Rated power speed	2600 rpmRPM
Bore	90.00MM
Number of cylinders	4
Ignition	Diesel-compression

Weights

Shipping Weight	3283.00KG
Operating Weight	3664.00KG

Options

Factory Options

- Deluxe pressurized cab with HVAC
- Tracks - rubber - 400 mm
- High-flow auxiliary hydraulics
- 2 Speed
- Back-up alarm
- Beacon
- Road Option
- Automatic Reversing Fan

Dealer Installed Options

- 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
- Deluxe pressurized cab with heating
- Selectable Joystick Controls (SJC - R/C Ready)
- Cloth Suspension Seat
- 7-pin attachment control
- Power Bob-Tach™
- Radio
- Work Lights LED
- Automatic Ride Control
- Custom paint color (min order of 5 units)
- 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

Instrumentation

Standard Instrument Panel

- Gauges
  - Engine temperature
  - Fuel
- Indicators
  - Bobcat Interlock Control System
  - Engine preheat
  - Two speed
  - Turn signals
- Warning lights
  - Engine 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
  - High flow auxiliary hydraulics
  - Work lights and road lights
  - Information (Hour meter, Engine RPM, Battery voltage, Service codes, Service reminder)
  - Auxiliary hydraulics
  - Press to operate loader
  - Traction lock override
  - Parking brake
- Rocker switch
- Alarm
  - Beep when error, warning or shutdown condition exists

Deluxe Instrument Panel

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, System voltage, Hydraulic charge pressure, Oil temperature)
◦ Main screen
◦ Security
◦ HEST Lamp
◦ Forced Parked Regeneration
• Buttons
◦ Enter
• 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
◦ 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 system (engine oil and hydraulic oil coolers easily separable for cleaning)
• Engine oil drain and dipstick
• Starter
Easy access to all lift arm grease points
Tailgate has an optional lock for vandal-proofing
Tip-up operator cab gives access to certain hydraulic system components
• Air filter
• Battery
• Engine oil and fuel filters
• Hydraulic oil fill and filter (access at the upper right side of the machine)
Access available via the side of the machine:
Rod end of the tilt cylinder has a replaceable bushing
Tailgate is equipped with door-stop to hold door open while servicing
Bob-Tach™ pivots have replaceable wear bushings

Attachments

• Auger Accessories
• Backhoes
• 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
• Planer Accessories
• Rear Stabilizers
• Root Grapples
• Sand Cleaners
• Scrapers
• Skeleton Buckets
• Snow Pushers
• Sod Layers
• Spreader
• Stump Grinders
• Tillers
• Tree Transplanters
• Trenchers
• Utility Frames
• Wheel Saws
• Augers
• Bale Forks
• Breaker Accessories
• Brush Saws
• Combination Buckets
• Concrete Pumps
• Diggers
• Drop Hammers
• Flail Cutters
• Graders
• Landplanes
• Laser Equipment
• Miscellaneous
• Mowers
• Pallet Forks, Hydraulic
• Planers
• Remote Control
• Rotary Grinders
• Scarifiers
• Seeders
• Snow Blades
• Snow V-Blades
• Soil Conditioners
• Spreaders
• Sweepers
• Tilt-Tatch
• Trench Compactors
• Utility Forks
• Vibratory Rollers
• Wood Chippers

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
• 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

- Deluxe instrument panel
- Seat belt
- Hydraulic bucket positioning (including ON/OFF switch)
- Spark Arrester
- Cushioned lift and tilt cylinders
- Engine/hydraulics system shutdown
- Electrically activated proportional front auxiliary hydraulics
- Machine IQ (telematic)
- CE certification
- Suspension seat
- Seat bar
- Tracks — rubber — 320 mm
- Bob-Tach™ frame
- Lift arm support
- Automatically activated glow plugs
- Auxiliary hydraulics: variable flow/maximum flow
- Manual
- Warranty: 24 months or 2000 hours (whichever occurs first)

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