

Machine Rating

Rated operating capacity (no more than 35% of Tipping Load)

Hydraulic Cylinders

Tilt cylinder bore	60.0 mmMM
Lift cylinder type	Double-acting
Lift cylinder bore	50.0 mmMM
Tilt cylinder rod	32.0 mmMM
Lift cylinder stroke	665.0 mmMM
Tilt cylinder stroke	353.9 mmMM
Tilt cylinder type	Double-acting with cushioning feature on dump and rollback
Lift cylinder rod	32.0 mmMM

Performance

Ground pressure	34 kPaKPA
Tilt Breakout force	1781 kgKILOGRAMS
Tipping load (ISO 14397-1)	2049 kgKG
Lift breakout force	1426 kgKILOGRAMS
Rated operating capacity (ISO 14397-1)	717
Push force	2388 kgKILOGRAMS

Cycle Times

Raise lift arms	2.7 secSEC
Bucket rollback	1.6 secSEC
Lower lift arms	2.2 secSEC
Bucket dump	2.3 secSEC

Hydraulic System

Hydraulic filter	Full-flow replaceable — 10 µm synthetic media element
Fluid lines	SAE standard tubelines, hoses, and fittings
Pump type	Engine driven, gear type
Control valve	Three-spool, open-centre type with float detent on lift and electrically controlled auxiliary spool
System relief at quick couplers	22.4-23.1 MPa
Pump capacity	63.2 lL

Drive System

Tracks	300 mm width. Tension-grease cylinder and triple-flange spring rollers
300 mm wide, rubber	

Traction

Max. travel speed	10.04
Max. travel speed (high range – optional)	14.40

Brakes

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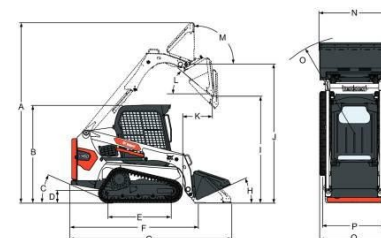
Fluid Capacities

Fuel tank	64.90L
Hydraulic / Hydrostatic system	21.00L
Cooling system without heater	11.30L
Engine oil with filter	8.60L
Cooling system with heater	12.30L
Hydraulic / Hydrostatic reservoir	5.30L

Fluid Specifications

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

Dimensions



Width with standard bucket

(A) 3604.3 mm MM	(J) 2781.3 mm MM
(B) 1976.1 mm MM	(K) 596.9 mm MM
(C) 28.00	(L) 40.00
(D) 213.4 mm MM	(M) 91.00
(E) 1275.1 mm MM	(N) 1422.4 mm MM
(F) 2499.4 mm MM	(N*) 1575.00 MM
(G) 3215.6 mm MM	(O) 1978.7 mm MM
(H) 26.00	(P) 1310.4 mm MM
(I) 2128.5 mm MM	(Q) 1397.00 MM

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

Controls

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

Environmental

Whole body vibration (ISO 2631-1) uncertainty	0.40 msMS
Operator LpA (98/37 & 474-1)	85.00
Whole body vibration (ISO 2631-1)	1.00
Hand-arm vibration (ISO 5349–1)	2.42
Noise level LWA (EU Directive 2000/14/EC)	101.00

Safety

Seat bar, standard	Secondary operator restraint, also serves as an arm rest.
Attachment steps, standard	Should always be used when entering/exiting loader.
Back-up alarm, optional	For use in areas with high traffic
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 Operate Loader" button, the loader's hydraulic lift and tilt functions and traction drive can be operated.
Lift arm bypass control, standard	Used to lower the lift arms in the event that the lift arms cannot be lowered during normal operating conditions.
Parking brake, standard	Always set brake when leaving loader.
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.
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.
Lift arm support, standard	Use for servicing when lift arms are raised.
Safety tread, standard	Slip resistant tread on lift arms and main frame to be used when entering/exiting loader.
Grab handles, standard	Should always be used when entering/exiting loader.
Front and rear work lights, standard	Use for indoor and low light operation.
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.

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

Engine

Torque at 1800 RPM (SAE J1995 Gross)	205.0 nmNEWTON-M
Power at 2600 RPM (ISO 14396)	41.00KW
Make / Model	DOOSAN INFRACORE / 2.4L BOBCAT ENGINE DM02-MFL04
Cooling	Liquid
Stroke	94.00MM
Air filter	Dry replaceable cartridge with safety element
Ignition	Diesel-compression
Crankcase ventilation	Closed breathing
Bore	90.00MM
Number of Cylinders	4
Displacement	2393.00
Fuel	Ultra low sulfur diesel no. 1 or 2
Lubrication	Gear pump pressure
Compliance	Stage V (V)

Weights

Operating Weight	2961.00KG
Shipping Weight	2665.00KG

Options

Factory Options	<ul style="list-style-type: none">• Deluxe pressurized cab with heating• Selectable Joystick Controls (SJC)• Cloth Suspension Seat• Hydraulic bucket positioning (including ON/OFF switch)
<ul style="list-style-type: none">• Deluxe pressurized cab with HVAC• 2 Speed• Attachment control device	<ul style="list-style-type: none">• Radio• Back-up alarm• Work Lights LED• Custom paint color (min order of 5 units)
Dealer Installed Options	<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Power Bob-Tach™• Strobe• Beacon• Road Option	
<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Gauges◦ Fuel level◦ Engine preheat◦ Turn signals◦ General warning◦ Seatbar down◦ Hydraulic system malfunction◦ Parking brake◦ Engine oil pressure
<ul style="list-style-type: none">• Indicators◦ Two speed• Warning lights◦ Seat belt◦ Engine malfunction◦ Lift and tilt valve, hydraulics lock-out◦ Hydraulic oil temperature◦ Hydraulic oil pressure◦ Work lights and road lights◦ Information (Hour meter, Engine RPM, Battery voltage, Service codes, Service reminder)◦ Press to operate loader◦ Parking brake◦ Beep when error, warning or shutdown condition exists	<ul style="list-style-type: none">• Buttons◦ Auxiliary hydraulics
Same gauges, warning lights and other features as Standard Instrument Panel, plus:	<ul style="list-style-type: none">◦ Traction lock override• Rocker switch• Alarm
	Deluxe Instrument Panel
<ul style="list-style-type: none">• Engine oil pressure / temperature• Hydraulic oil temperature• Additional features◦ Digital clock, date and time◦ Attachment control information	<ul style="list-style-type: none">• Gauges◦ Hydrostatic charge pressure◦ Battery◦ Keyless start with password capability◦ User name and hourmeter◦ Current job hours

- 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
- Multi-language display
 - Diagnostic capability
 - Password lockout
 - Active warnings
 - Service
 - Attachment control information
 - Display
 - Left scroll
 - Right scroll

Serviceability

Access is available to the following through the rear door/tailgate and rear screen:	<ul style="list-style-type: none">• Air filter• Battery
<ul style="list-style-type: none">• Alternator• Cooling system (engine oil and hydraulic oil coolers easily separable for cleaning)• Engine oil drain and dipstick	<ul style="list-style-type: none">• Engine oil and fuel filters• Hydraulic oil fill and filter (access at the upper right side of the machine)
<ul style="list-style-type: none">• Starter	Access available via the side of the machine:
Easy access to all lift arm 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	Bob-Tach™ pivots have replaceable wear bushings

Attachments

- Auger Accessories
 - Backhoes
 - Box Blades
 - Breakers
 - Brushcat™ Rotary Cutters
 - Concrete Mixers
 - Diggers
 - Dumping Hoppers
 - Graders
 - Landplanes
 - Laser Equipment
 - Miscellaneous
 - Pallet Fork Accessories
 - Planer Accessories
 - Remote Control
 - Scarifiers
 - Seeders
 - Snow Blades
 - Snow V-Blades
 - Soil Conditioners
 - Spreaders
 - Tillers
 - Utility Forks
 - Vibratory Rollers
- Augers
 - Bale Forks
 - Breaker Accessories
 - Brush Saws
 - Combination Buckets
 - Construction / Industrial Buckets
 - Dozer Blades
 - Flail Cutters
 - Grapples, Industrial
 - Landscape Rakes
 - Low Profile Buckets
 - Mowers
 - Pallet Forks, Hydraulic
 - Rear Stabilizers
 - Root Grapples
 - Scrapers
 - Skeleton Buckets
 - Snow Pushers
 - Sod Layers
 - Spreader
 - Sweepers
 - Tilt-Tatch
 - Utility Frames
 - 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
 - Deluxe instrument panel
 - Suspension seat
 - Seat bar
 - Bob-Tach™ frame
 - Lift arm support
 - Spark Arrester
 - Electrically activated proportional front auxiliary hydraulics
 - Machine IQ (telematic)
 - CE certification
- 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
 - Keyless start with password capability
 - Seat belt
 - Tracks — rubber — 300 mm
 - Cushioned lift and tilt cylinders
 - Engine/hydraulics system shutdown
 - Automatically activated glow plugs
 - Auxiliary hydraulics: variable flow/maximum flow
 - Manual
 - Warranty: 24 months or 2000 hours (whichever occurs first)