

Hydraulic Cylinders

Tilt cylinder type	Double-acting with cushioning feature on dump and rollback
Tilt cylinder rod	38.1
Lift cylinder rod	44.5
Lift cylinder stroke	633.2
Lift cylinder type	Double-acting
Tilt cylinder bore	76.2
Tilt cylinder stroke	354.8
Lift cylinder bore	76.2 mmMM

Performance

Tilt Breakout force	2999.00KG
Rated operating capacity (ISO 14397-1)	1227.00KG
Lift breakout force	2638
Push force	3072.00
Tipping load (ISO 14397-1)	2455.00KG

Cycle Times

Raise lift arms	4.17
Bucket dump	2.88
Lower lift arms	3.02
Bucket rollback	2.84

Hydraulic System

System relief at quick couplers	23.8-24.5 MPa
Pump type	Engine driven, gear type
Control valve	Three-spool, open-centre type with float detent on lift and electrically controlled auxiliary spool
Hydraulic filter	Full-flow replaceable — 10 µm synthetic media element
Fluid lines	SAE standard tubelines, hoses, and fittings
Pump capacity (with high flow option)	115.50
Pump capacity	87.10

Drive System

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 no idler sprocket.
Axle size	50.3 mm, heat treated. Axle tubes welded to chaincase. Labyrinth axle seal protection.
Main drive	Fully hydrostatic; four-wheel drive
Wheel bolts	Eight 9/16-inch wheel bolts fixed to axle hubs
Gradeability	20° Continuous and 30° Intermittent
Transmission	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors

Traction

Max. travel speed (high range - option)	18.40
Max. travel speed (low range)	9.90

Brakes

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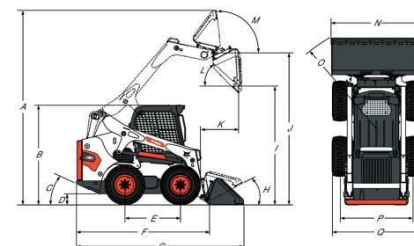
Fluid Capacities

Hydraulic / Hydrostatic reservoir	10.20L
Cooling system with heater	11.80L
Hydraulic / Hydrostatic system	45.00L
Transmission chaincase reservoir	39.2
Fuel tank	90.50L
Engine oil with filter	8.60L
Cooling system without heater	11.4

Fluid Specifications

Engine oil	Refer to temperature range anticipated before next oil
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Dimensions



(A) 4026.00 MM	(K) 851.00 MM
(B) 2065.00 MM	(L) 37.60
(C) 25.20	(M) 96.60
(D) 207.00 MM	(N) 1880.00 MM
(E) 1150.00 MM	(N) 1575.00 MM
(F) 2753.00 MM	(N) 1880.00 MM
(G) 3474.00 MM	(O) 2106.00 MM
(H) 29.40	(P) 1585 mm MM
(I) 2489.00 MM	(Q) 1832.00 MM
(J) 3149.00 MM	

change.
[1] SAE 10W-30
Refer to

[3] Bobcat Synthetic Oil – SAE 5W-40

machine. If Bobcat engine oil is not available
quality engine oil that meets API
or better, or ACEA E7 o
* Can be used only when available with

better.
Do not use API Category FA-4 engine

[2] SAE 15W-40
Must use API Category CI-4

better.
Bobcat engine
machine. If

or better, or ACEA E7 or better
Engine coolant
5 L can - 6904844A, 2

Hydraulic fluid

Bobcat Bio Hydraulic, 5 L can

Motor oil is

temperature range anticipated before next oil
change.

Bobcat engine oils are recommended for use in thi
s

, use a good

Service Category of CI-4

r better

appropriate diesel rating. For synthetic oil use
the recommendation from the oil manufacturer.

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

oil.

or better, or ACEA E7 or

oils are recommended for use in this

Bobcat engine oil is not available, use a good
quality engine oil that meets API Service Categor
y of CI-4

Propylene glycol/water mix (53% - 47%) with
freeze protection to -37°C

5 L container - 6904844B, 209 L drum - 6904844C,
1000 L tank - 6904844D

Bobcat Superior SH, 5 L can - 6904842A, 25 L
container - 6904842B, 209 L drum - 6904842C, 1000
L tank - 6904842D

- 6904843A, 25 L container - 6904843B, 209 L drum
- 6904843C, 1000 L tank - 6904843D

not an acceptable alternative fluid.

Controls

Service brake	Two independent hydrostatic systems controlled by two hand operated steering levers or optional joystick(s) (SJC)
Parking brake, two-speed option	Spring applied, pressure released multi-disk brak e activated by rocker switch
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)
Engine	Hand throttle or optional foot accelerator pedal (SJC)
Starting	Keyless start. Glow plugs automatically activated.
Vehicle steering	Hand Levers or optional Selectable Joystick Controls (SJC)
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.

Environmental

Operator LpA(98/37 & 474-1)	85
Hand-arm vibration (ISO 5349–1)	1.08 msMS
Whole body vibration (ISO 2631-1) uncertainty	0.30 msMS
Noise level LWA(EU Directive 2000/14/EC)	101.00
Whole body vibration (ISO 2631-1)	0.68

Electrical

Alternator	90 A open frame with internal regulator
Starter	12 V gear type 3.2 kW (4.29 hp)
Battery	12 V BCI group 31 - 1000 A cold cranking at -18°C - 231 min reserve capacity at 25 A

Engine

Displacement	2392.00
Fuel	Ultra low sulfur diesel no. 1 or 2
Bore	90.00MM
Compliance	Stage V (V)
Number of Cylinders	4

Make / Model	HD HYUNDAI INFRACORE / 2.4L BOBCAT ENGINE
Lubrication	Gear pump pressure with filter
Stroke	94.00MM
Cooling	Liquid
Power at 2600 RPM	55.30KW
Torque at 1800 RPM (SAE J1995 Gross)	283.90
Air filter	Dry replaceable cartridge with safety element
Ignition	Diesel-compression
Crankcase ventilation	Closed breathing

Weights

Operating Weight	3778.00KG
Shipping Weight	3549 kgKG

Options

Factory Options	• 12 x 16.5, 12-ply, Heavy duty tyres, offset rims • Deluxe pressurized cab with heating • Selectable Joystick Controls (SJC - R/C Ready) • High-flow auxiliary hydraulics
• 12 x 16.5, 12-ply, Severe duty tyres • Deluxe pressurized cab with HVAC • Cloth Suspension Seat • Hydraulic bucket positioning (including ON/OFF switch) • 2 Speed • Back-up alarm • Beacon • Road Option • Automatic Reversing Fan	• 7-pin attachment control • Power Bob-Tach™ • Radio • Work Lights LED • Automatic Ride Control • Custom paint color (min order of 5 units) • 33 x 15.5-16.5, 12-ply, Superflotation tyres, offset rims • 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
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	

Instrumentation

Standard Instrument Panel	• 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 ◦ Parking brake ◦ Beep when error, warning or shutdown condition exists ◦ Work lights and road lights ◦ Auxiliary hydraulics
◦ Engine coolant temperature • Indicators ◦ Engine preheat ◦ Turn signals ◦ Engine coolant temperature ◦ General warning ◦ Seatbar down ◦ Hydraulic system malfunction ◦ Parking brake ◦ Engine oil pressure • Rocker switch • Alarm	
• Buttons ◦ High flow auxiliary hydraulics ◦ Information (Hour meter, Engine RPM, Battery voltage, Service codes, Service reminder, Maintenance clock) ◦ Press to operate loader	◦ Traction lock override
Same gauges, warning lights and other features as Standard Instrument Panel, plus:	Deluxe Instrument Panel
◦ 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	• 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

- Vitals (Engine speed, Oil Pressure, Temperature , 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

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

Standard Features

- 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
 - 12 x 16.5, Versatile duty tyres
 - Cushioned lift and tilt cylinders
 - Engine/hydraulics system shutdown
 - Automatically activated glow plugs
- Noise reduction kit
 - Deluxe instrument panel
 - Suspension seat
 - Seat bar
 - Bob-Tach™ frame
 - Lift arm support
 - Spark Arrester
 - Electrically activated proportional front auxiliary hydraulics
- Auxiliary hydraulics: variable flow/maximum flow
 - Manual
 - Warranty: 24 months or 2000 hours (whichever occurs first)
 - Parking brake
- Machine IQ (telematic)
 - CE certification
 - 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