Dimensions

(A) Operating height  
(B) Height with operator cab  
(C) Angle of departure  
(D) Ground clearance  
(E) Wheelbase  
(F) Length without attachment  
(G) Length with standard bucket  
(H) Rollback at ground position  
(I) Dump height with standard bucket  
(J) Height to bucket hinge pin  
(K) Dump reach at maximum height  
(L) Dump angle at maximum height  
(M) Rollback fully raised at maximum height  
(N) Width over standard bucket  
(O) Turning radius with standard bucket  
(P) Track, standard tyres  
(Q) Width over standard tyres

3051.0 mm  
1814.0 mm  
25.0°  
141.0 mm  
722.0 mm  
1925.0 mm  
2472.0 mm  
22.0°  
1934.0 mm  
2399.0 mm  
400.0 mm  
34.0°  
97.0°  
914.0 mm  
1557.0 mm  
752.0 mm  
901.0 mm
Performance

Tipping load (ISO 14397-1)  686 kg
Rated operating capacity (ISO 14397-1)  344 kg
Lift breakout force  861 daN
Tilt breakout force  867 daN

Cycle Times

Raise lift arms  3.6 s
Lower lift arms  2.7 s
Bucket rollback  1.7 s
Bucket dump  2.1 s

Weights

Operating weight  1268 kg
Shipping weight  1109 kg

Engine

Make / Model  Kubota / D1005-E4B-BC-3
Fuel  Diesel
Cooling  Liquid
Power at 2400 RPM  17.5 kW
Rated speed (EEC 80/1269, ISO 9249)  3000.0 RPM
Torque at 1425 RPM (SAE J1995 Gross)  62.8 Nm
Number of cylinders  3
Displacement  1001 cm³
Bore  76.0 mm
Stroke  73.6 mm
Lubrication  Gear pump pressure system with filter
Crankcase ventilation  Closed breathing
Air filter  Dry replaceable cartridge with separate safety element
Ignition  Compression (diesel)
Starting aid  Glow plugs

Electrical

Alternator  Belt driven — 65 A — ventilated
Battery  12 V — 600 A cold cranking at -18°C — 115 min reserve capacity
Starter  12 V — gear reduction type — 2.7 kW

Hydraulic System

Pump type  Engine driven, gear type
Pump capacity  37.00 L/min
System relief at quick couplers  207.00 bar
System relief at quick couplers  20.7 MPa
Control valve  Three-spool, open-centre type with float detent on lift and auxiliary spool with detent in one direction (manual)
Hydraulic filter  Full-flow replaceable — 10 µm synthetic media element
Fluid lines  SAE standard tubelines, hoses, and fittings

Specifications are subject to change without notice - Pictures of Bobcat units may show other than standard equipment
## Hydraulic Cylinders

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift cylinder (2)</td>
<td>Double-acting</td>
</tr>
<tr>
<td>Lift cylinder bore</td>
<td>50.8 mm</td>
</tr>
<tr>
<td>Lift cylinder rod</td>
<td>31.8 mm</td>
</tr>
<tr>
<td>Lift cylinder stroke</td>
<td>555.8 mm</td>
</tr>
<tr>
<td>Tilt cylinder (2)</td>
<td>Double-acting with cushioning feature on dump and rollback</td>
</tr>
<tr>
<td>Tilt cylinder bore</td>
<td>76.2 mm</td>
</tr>
<tr>
<td>Tilt cylinder rod</td>
<td>31.8 mm</td>
</tr>
<tr>
<td>Tilt cylinder stroke</td>
<td>268.2 mm</td>
</tr>
</tbody>
</table>

## Drive System

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission</td>
<td>Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors</td>
</tr>
<tr>
<td>Final drive chains</td>
<td>Pre-stressed #60 HS 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.</td>
</tr>
<tr>
<td>Main drive</td>
<td>Fully hydrostatic; four-wheel drive</td>
</tr>
<tr>
<td>Axle size</td>
<td>38.1 mm, heat treated. Axle tubes welded to chaincase.</td>
</tr>
<tr>
<td>Wheel bolts</td>
<td>Five 9/16-inch wheel bolts fixed to axle hubs</td>
</tr>
</tbody>
</table>

## Traction

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard tyres</td>
<td>23 x 5.70-12, 4–ply, Narrow tyres</td>
</tr>
<tr>
<td>Max. travel speed (low range)</td>
<td>9.8 km/h</td>
</tr>
</tbody>
</table>

## Fluid Capacities

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chaincase reservoir</td>
<td>11.40 L</td>
</tr>
<tr>
<td>Cooling system</td>
<td>5.70 L</td>
</tr>
<tr>
<td>Engine oil with filter</td>
<td>3.69 L</td>
</tr>
<tr>
<td>Fuel tank</td>
<td>24.60 L</td>
</tr>
<tr>
<td>Hydraulic reservoir</td>
<td>5.00 L</td>
</tr>
<tr>
<td>Hydraulic / Hydrostatic system</td>
<td>15.10 L</td>
</tr>
</tbody>
</table>
Fluid Specifications

Engine coolant
- Propylene glycol/water mix (53% - 47%) with freeze protection to -37°C
- 5 L can - 6904844A, 25 L container - 6904844B, 209 L drum - 6904844C, 1000 L tank - 6904844D

Engine oil
- Oil must meet API Service Classification of CD, CE, CF4, CG4, or better. Recommended SAE viscosity number for anticipated temperature range.

<table>
<thead>
<tr>
<th>Temperature (°C)</th>
<th>SAE Viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>-40</td>
<td>SAE 10W-30</td>
</tr>
<tr>
<td>-30</td>
<td>SAE 10W-30</td>
</tr>
<tr>
<td>-20</td>
<td>SAE 15W-40</td>
</tr>
<tr>
<td>-10</td>
<td>SAE 20W-50</td>
</tr>
<tr>
<td>0</td>
<td>SAE 40W or 20W-50</td>
</tr>
<tr>
<td>10</td>
<td>SAE 5W-30</td>
</tr>
<tr>
<td>20</td>
<td>SAE 30W</td>
</tr>
<tr>
<td>30</td>
<td>SAE 1W-40</td>
</tr>
<tr>
<td>40</td>
<td>SAE 2W-20</td>
</tr>
<tr>
<td>50</td>
<td>SAE 10W</td>
</tr>
</tbody>
</table>

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

* Can be used only when available with appropriate diesel rating. For synthetic oil use the recommendation from the oil manufacturer.

Controls

- Engine: Hand lever throttle
- Starting: Key-type starter switch and shutdown. Automatically activated glow plugs.
- Front auxiliary (standard): Lateral movement of right-hand steering lever
- Loader hydraulics tilt and lift: Separate foot pedals
- Service brake: Two independent hydrostatic systems controlled by two hand-operated steering levers
- Secondary brake: One of the hydrostatic transmissions
- Parking brake: Rocker switch on left-hand instrument panel
- Vehicle steering: Direction and speed controlled by two hand levers
- Auxiliary pressure release: Lateral movement of right-hand steering lever after engine has been shut off

Instrumentation

The following loader functions are monitored by a combination of gauges and warning lights in the operator’s line of sight. The system alerts the operator of monitored loader malfunctions by way of audible alarm and visual warning lights.

Standard Instrument Panel
• Gauges
  ◦ Hour-meter
  ◦ Engine coolant temperature
  ◦ System voltage
  ◦ Fuel level
• Indicators
  ◦ Bobcat Interlock Control System
  ◦ Seat belt
  ◦ Seat bar
  ◦ Valve (lift and tilt functions)
  ◦ Parking brake
• Warning lights
  ◦ Engine oil pressure
  ◦ Engine coolant temperature
  ◦ Transmission charge pressure
  ◦ Hydraulic filter
  ◦ Hydraulic oil temperature
  ◦ Hydrostatic charge pressure

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

**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
• 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

**Standard Features**
• Automatically activated glow plugs
• Bob-Tach™ frame
• Bobcat Interlock Control System (BICS)
• Front auxiliary hydraulics
• Suspension seat
• Manual
• Lift arm support
• 23 x 5.70-12, 4–ply, Narrow tyres
• Operating lights, front and rear
• Operator cab
• Parking brake
• Rear and top window
• Seat belt
• Seat bar
• Spark arrestor muffler
• CE certification
• Warranty: 24 months or 2000 hours (whichever occurs first)

Options

- Factory Options
  - Deluxe pressurized cab with heating
  - 23 x 8.50-12 6-ply, heavy duty tyres
  - Back-up alarm
- Dealer Installed Options
  - 7 and 14-pin electrical attachment control kit
  - Back up alarm kit
  - Cab enclosure kit
  - Fresh air heater kit
  - Catalytic purifier kit
  - Front door kit
  - Engine block heater kit
  - Externally removable rear window
  - Fire extinguisher kit
  - Hydraulic bucket positioning kit
  - Keyless kit
  - Fuel cap locking kit
  - Rear stabiliser kit
  - Rear window wiper kit
  - Replacement operator cab structure
  - Seat belt kit
  - Side windows kit
  - Single-point lift kit
  - Special applications front door kit
  - Tailgate lock kit
  - 4-way flasher / rotating beacon / strobe
  - Water level sensor kit

Attachments

- Angle Brooms
- Auger Accessories
- Augers
- Boring Units
- Breaker Accessories
- Breakers
- Dirt Buckets
- Dozer Blades
- Dumping Hoppers
- General Purpose (GP) Bucket
- Grapples, Industrial
- Landplanes
- Pallet Fork Accessories
- Pallet Forks, Standard
- Root Grapples
- Soil Conditioners
- Stump Grinders
- Sweepers
- Tillers
- Utility Forks

1. Roll Over Protective Structure (ROPS) – meets requirements of SAE-J1040 and ISO 3471

B4UC 11001 — B4UC 99999
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### Environmental

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator LpA(98/37 &amp; 474-1)</td>
<td>86 dB(A)</td>
</tr>
<tr>
<td>Operator LpA uncertainty</td>
<td>2.5</td>
</tr>
<tr>
<td>Noise level LWA(EU Directive 2000/14/EC)</td>
<td>97 dB(A)</td>
</tr>
<tr>
<td>Noise level LWA uncertainty</td>
<td></td>
</tr>
<tr>
<td>Whole body vibration (ISO 2631–1)</td>
<td>1.29 ms²</td>
</tr>
<tr>
<td>Whole body vibration uncertainty</td>
<td></td>
</tr>
<tr>
<td>Hand-arm vibration (ISO 5349–1)</td>
<td>1.54 ms²</td>
</tr>
<tr>
<td>Hard-arm vibration uncertainty</td>
<td></td>
</tr>
</tbody>
</table>