

Dimensions



Angle of departure.....	26°
Carry position.....	224 mm
Dump angle at maximum height.....	40°
Dump height with standard bucket.....	2148 mm
Dump reach at maximum height.....	485 mm
Ground clearance.....	180 mm
Height to bucket hinge pin.....	2771 mm
Height with operator cab.....	1956 mm
Length without attachment.....	2445 mm
Length with standard bucket.....	3059 mm
Operating height.....	3535 mm
Rollback at ground position.....	25°
Rollback fully raised at maximum height.....	96°
Wheelbase.....	900 mm
Turning radius with standard bucket.....	1761 mm
Width over tyres, 10-16.5.....	1524 mm
Width over tyres, 10-16.5 with offset rims.....	1372 mm
Width over tyres, 31.5 x 13-16.5.....	1524 mm
Track, 10-16.5 tyres.....	1278 mm
Track, 10-16.5 tyres with offset rims.....	1079 mm
Track, 31.5 x 13-16.5 tyres.....	1176 mm
Width over bucket, 54-inch.....	1398 mm
Width over bucket, 62-inch.....	1575 mm

Machine Rating

Lift breakout force (SAE).....	12232 N
Tilt breakout force (SAE).....	12454 N
Rated operating capacity (SAE J732).....	600 kg
Rated operating capacity with counterweight option.....	635 kg
Tipping load (SAE).....	1179 kg
Axle torque.....	6373 Nm

Function Time

Raise lift arms.....	2,9 s
Lower lift arms.....	2,3 s
Bucket rollback.....	2,0 s
Bucket dump.....	2,3 s

Weights

Operating weight (SAE).....	2263 kg
Shipping weight.....	2223 kg

Engine

Make / Model.....	Kubota / V2003-EB
Fuel.....	Diesel
Cooling.....	Liquid
Power (SAE J1349 Net).....	32 kW
Maximum governed RPM.....	2650
Torque at 1800 RPM (SAE Net).....	139 Nm
Number of cylinders.....	4
Displacement.....	2,2 l
Bore.....	87 mm
Stroke.....	92,4 mm
Fuel consumption.....	6,57 l/h (Estimated fuel consumption is based on testing by Bobcat Company in high duty-cycle digging applications.)
Lubrication.....	Pressure system with filter
Crankcase ventilation.....	Open
Air filter.....	Dry replaceable cartridge with safety element
Ignition.....	Diesel-compression
Starting aid.....	Glow plugs

Electrical

Alternator.....	Belt driven — 90 A — open
Battery.....	12V — 600 cold cranking A 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 at 2850 RPM – standard.....	60,2 l/min
System relief at Quick Couplers.....	172 to 179 Bar
Control valve.....	Three-spool, open-centre type with float detent on lift and electrically controlled auxiliary spool
Hydraulic filter.....	Full-flow replaceable — 3 µm synthetic media element
Fluid lines.....	SAE standard tubelines, hoses, and fittings

Hydraulic Cylinders

Lift cylinder (2).....	Double-acting
Lift cylinder bore.....	50,8 mm
Lift cylinder rod.....	31,8 mm
Lift cylinder stroke.....	674,9 mm
Tilt cylinder (1).....	Double-acting with cushioning feature on dump and rollback
Tilt cylinder bore.....	88,9 mm
Tilt cylinder rod.....	38,1 mm
Tilt cylinder stroke.....	368,3 mm

Drive System

Transmission.....	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors
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.
Main drive.....	Fully hydrostatic; four-wheel drive
Axle size.....	50,8 mm, heat treated
Wheel bolts.....	Eight 9/16–inch wheel bolts fixed to axle hubs

Traction

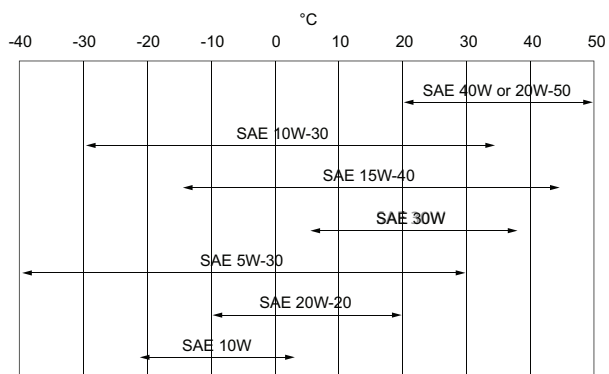
Standard tyres.....	10-16.5 — 4-ply
Travel speed.....	11,3 km/h

Fluid Capacities

Chaincase reservoir.....	30,0 l
Cooling system.....	9,2 l
Engine oil with filter.....	7,1 l
Fuel tank.....	53,0 l
Hydraulic reservoir.....	13,2 l
Hydraulic / Hydrostatic system.....	22,0 l

Fluid Specifications

Engine coolant.....	Bobcat PG Coolant 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.



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

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
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Controls

Engine.....	Hand lever throttle
Starting.....	Key-type starter switch and shutdown. Glow plugs automatically activated by Standard or Deluxe instrument panel.
Front auxiliary (standard).....	Electrical switch on right-hand steering lever
Rear auxiliary (optional).....	Electrical switch on left-hand steering lever
Loader hydraulics tilt and lift.....	Separate foot pedals or optional Advanced Control System (ACS)
Service brake.....	Two independent hydrostatic systems controlled by two hand-operated steering levers
Secondary brake.....	One of the hydrostatic transmissions
Parking brake.....	Mechanical disc, hand operated rocker-switch on dash panel
Vehicle steering.....	Direction and speed controlled by two hand levers
Auxiliary pressure release.....	Pressure is relieved through the coupler block. Push in and hold for 5 s.

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
 - Engine coolant temperature
 - Fuel
 - Hour-meter
- Indicators
 - Attachment control device
 - BICS functions
 - Glow plugs
- Warning lights
 - Advanced Control System (ACS)
 - Engine air filter
 - Engine coolant temperature
 - Engine oil pressure
 - General warning
 - Hydraulic filter
 - Hydraulic oil temperature
 - Hydrostatic charge pressure
 - Seat belt
 - System voltage

Deluxe Instrument Panel (Option)

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

- Bar-type gauges
 - Engine oil pressure
 - System voltage
 - Hydrostatic charge pressure
 - Hydraulic oil temperature
- Additional features
 - Keyless start with password capability
 - Digital clock
 - Job clock
 - Attachments information
 - Digital tachometer
 - High flow lockouts
 - Multi-language display
 - Help screens
 - Diagnostic capability
 - Engine/hydraulic systems shutdown function

Serviceability

Access is available to the following through the rear door/tailgate and rear screen:

- Air cleaner
- Alternator
- Battery
- Cooling system (engine oil and hydraulic oil coolers) for cleaning
- Engine oil and fuel filters
- Engine oil drain and dipstick
- Hydraulic oil fill (access at the side of the machine)
- Starter

Axle hubs provide protection for the axle seals

Bob-Tach™ pivots have replaceable wear bushings

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

Standard Features

- High-back cushion suspension seat
- Automatically activated glow-plugs
- Auxiliary hydraulics: variable flow/maximum flow
- Bob-Tach™ frame
- Bobcat Interlock Control System (BICS)
- Deluxe operator cab *
- Includes interior cab foam, top and rear windows, accessory wire harness, dome light, and electrical power port
- Rear half side and top windows
- Engine/hydraulics system shutdown
- Hydraulic bucket positioning (including ON/Off switch)
- Instrumentation
- Lift arm support
- Operating lights, front and rear
- Parking brake
- Seat belt
- Seat bar
- Spark arrestor muffler
- Tyres — 10-16.5 — 8-ply — Bobcat standard duty
- CE certification
- Warranty: 12 months or 2000 hours

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

Options

- Factory Options
 - Deluxe instrument panel
 - Cab enclosure with heat
 - Heavy-duty tyres — 10-16.5 — 10-ply
 - Heavy-duty tyres with offset rims — 10-16.5 — 10-ply
 - Severe duty foam-filled tyres — 10-16.5 — 10-ply
 - Super float tyres — 31-15.5 — 10-ply
 - Severe duty tyres — 10-16.5 — 10-ply
 - Segmented tyres, industrial type — 7.50-15
 - Segmented tyres — 10-16.5
 - Heavy duty, offset rim, tyre and wheel assembly — 10-16.5 — 10-ply
 - Heavy duty tyre and wheel assembly — 10-16.5 — 10-ply
 - Severe duty foam-filled tyre and wheel assembly — 10-16.5 — 10-ply
 - Super float wheel and tyre assembly — 31-15.5 — 8-ply
 - Severe duty tyre and wheel assembly — 10-16.5 — 10-ply
 - Segmented tyre, industrial type, left — 7.50-15
 - Segmented tyre, industrial type, right — 7.50-15
 - Segmented tyre, left — 10-16.5
 - Segmented tyre, right — 10-16.5
- Dealer Installed Accessories
 - Cab enclosure kit
 - Special applications kit
 - Counterweight kit
 - Advanced Control System conversion kit
 - 7-pin attachment control kit
 - Replacement Bob-Tach™
 - Catalytic purifier kit
 - Fuel cap locking kit
 - Deluxe instrument panel
 - Door sensor switch kit
 - Hydraulic bucket positioning kit
 - Four-point lift kit
 - Fresh air heater kit
 - Front door kit
 - Plumbing kit for fresh air heater
 - Back up alarm kit
 - FOPS kit **
 - Single-point lift kit
 - 7 and 14-pin electrical attachment control kit
 - Replacement operator cab structure
 - Operator cab, CE, enclosure kit
 - Rear auxiliary hydraulic kit

** Falling Objects Protective Structure (FOPS) – meets requirements of SAE-J1043 and ISO 3449, Level I

Attachments

For specific model availability, see Bobcat Product Price List.

- Angle blade
- Angle broom
- Auger
- Backhoe
- Brushcat rotary cutter
- Buckets
- Chipper
- Combination bucket
- Cutter crusher
- Digger
- Dozer blade
- Dumping hopper
- Ejector bucket
- Farm grapple
- Front scarifier
- Grader
- Hydraulic breaker
- Industrial grapple
- Landplane
- Landscape rake
- Mixing bucket
- Pallet fork – standard
- Pallet fork – hydraulic
- Planer
- Rear stabiliser
- Snow blower
- Sod layer
- Soil conditioner
- Spreader
- Super scraper
- Sweeper
- Three-point hitch
- Tiller
- Tilt-Tatch™
- Tracks, steel
- Trench compactor
- Trencher
- Vibratory roller

Environmental

Noise 1.....	Value
Noise 2.....	Value
Vibration.....	Value

Safety

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.
Seat belt, standard.....	Should always be worn when operating the loader. Three-point shoulder belt provides restraint for high range speeds.
Seat bar, standard.....	Secondary operator restraint, also serves as an arm rest.
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.
Lift arm support, standard.....	Use for servicing when lift arms are raised.
Parking brake, standard.....	Always set brake when leaving loader.
Grab handles, standard.....	Should always be used when entering/exiting loader.
Safety tread, standard.....	Slip resistant tread on lift arms and main frame to be used when entering/exiting loader.
Attachment steps, standard.....	Should always be used when entering/exiting loader.
Rear window, standard.....	For emergency exit.
Front and rear working lights, standard.....	Use for indoor and low light operation.
Backup alarm, optional.....	For use in areas with high traffic
Lift kits, optional.....	Lift kits are available so loader may be lifted into remote areas.
Special applications kit, optional.....	Restricts objects and material from entering cab openings.
Operator's handbook, standard.....	Weather-resistant operator handbook attached to the inside of the cab, providing operational instructions and warnings decals with pictorials and international symbols.

* Level I — Acceptance is intended for protection from falling bricks, small concrete blocks, and hand tools encountered in operations such as highway maintenance, landscaping, and other construction site services.

** Level II — Acceptance is intended for protection from falling trees or rocks for machines involved in site clearing, overhead demolition, or forestry.