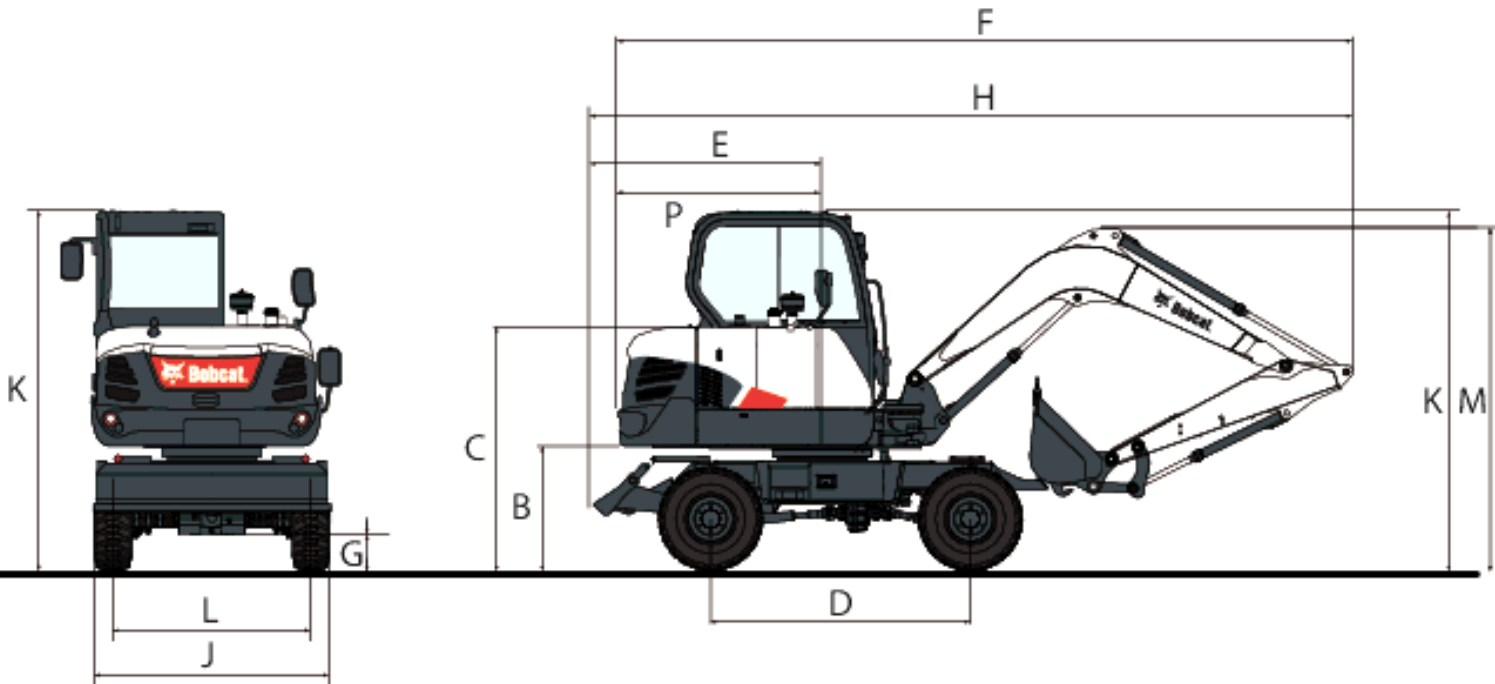
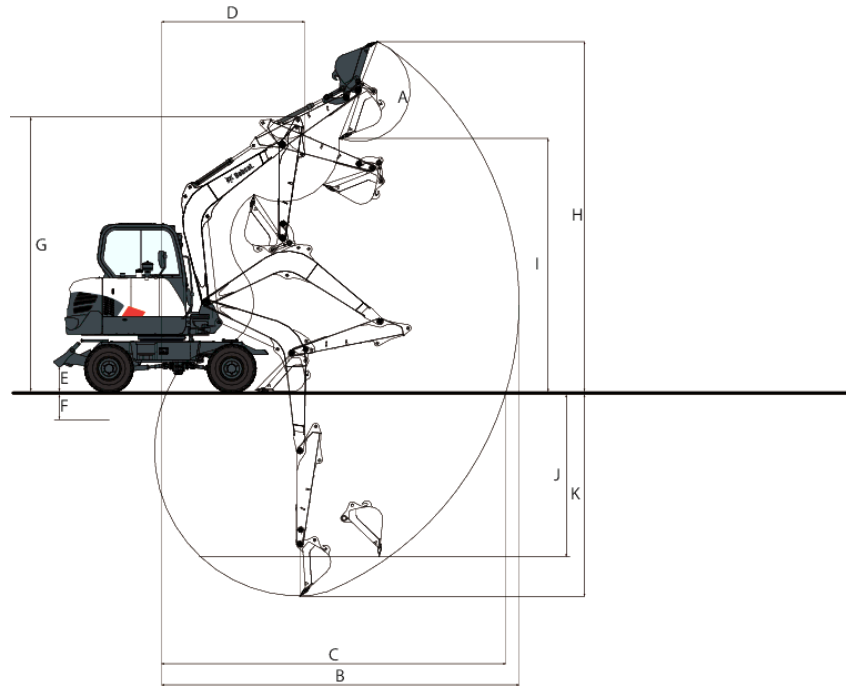


Dimensions

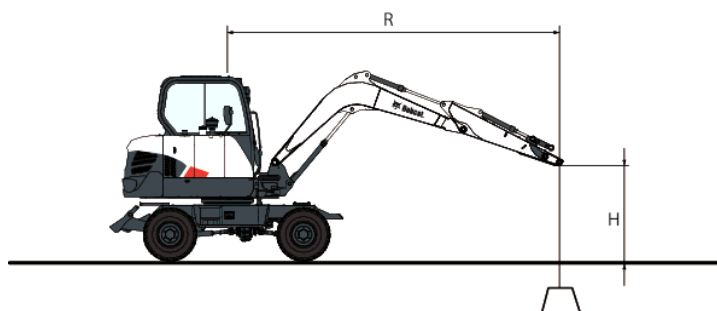


(A) Blade height	500.0 mm
(B) Clearance, upper structure to ground line	980.0 mm
(C) Ground line to top of engine cover	1941.0 mm
(D) Wheel base	2100.0 mm
(E) Machine centre line to blade	1678.0 mm
(F) Overall length in transport position	5971.0 mm
(H) Overall length in travel position over blade	6120.0 mm
(J) Machine width (blade), single tyres	1947.0 mm
(J*) Machine width, double tyres	2290.0 mm
(K) Height over cab	2861.0 mm
(L) Track width, single tyres	1600.0 mm
(L*) Track width double tyres	1780.0 mm
(M) Height in travel position, single tyres	3633.0 mm
(M*) Height in travel position, double tyres	3638.0 mm
(O) Minimum turning radius	1980.0 mm
(O) Minimum turning radius, long dipperstick	1990.0 mm
(P) Swing clearance, rear	1650.0 mm
(•) Boom length (boom pivot to arm pivot)	3000.0 mm
(•) Standard arm length (arm pivot to bucket pivot)	1600.0 mm
(•) Optional arm length (arm pivot to bucket pivot)	1900.0 mm

Working Range



(A) Bucket pivot angle	180.0°
(B) Maximum reach of working equipment	6108.0 mm
(B*) Maximum reach of working equipment, long dipperstick	6400.0 mm
(C) Maximum reach at ground level	5888.0 mm
(C*) Maximum reach at ground level, long dipperstick	6190.0 mm
(D) Maximum working equipment radius with boom at maximum height and dipperstick fully retracted	2448.0 mm
(D*) Maximum working equipment radius with boom at maximum height and dipperstick fully retracted, long dipperstick	2464.0 mm
(E) Maximum blade height	421.0 mm
(F) Maximum blade depth	202.0 mm
(G) Maximum height of working equipment with dipperstick extended	4686.0 mm
(G*) Maximum height of working equipment with dipperstick extended	4692.0 mm
(G) Maximum height of working equipment with dipperstick retracted, long dipperstick	4692.0 mm
(H) Maximum bucket tooth height	5976.0 mm
(H*) Maximum bucket tooth height, long dipperstick	6170.0 mm
(I) Maximum dump height	4324.0 mm
(I*) Maximum dump height, long dipperstick	4510.0 mm
(J) Maximum depth of vertical wall which can be excavated	2805.0 mm
(J*) Maximum depth of vertical wall which can be excavated, long dipperstick	3115.0 mm
(K) Maximum digging depth	3495.0 mm
(K*) Maximum digging depth, long dipperstick	3795.0 mm

Lift Capacity (Standard dipperstick - Object handling applications excluded)


Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 3000 mm radius	Lift at 4000 mm radius	Lift at 5000 mm radius
4000	3590	1200 *	-	-	-
3000	4490	1040 *	-	1210 *	-
2000	4980	1000 *	-	1360 *	-
1000	5200	1020	2240 *	1650 *	1270
Ground	5190	1110	2760 *	1750	1250
-1000	4940	1260 *	2710	1710	-

* Rated hydraulic lift capacity

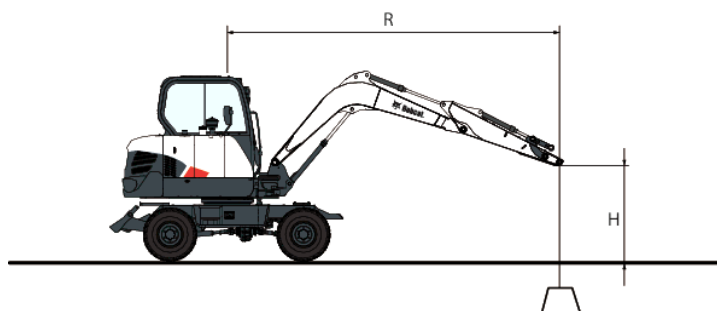
Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 3000 mm radius	Lift at 4000 mm radius	Lift at 5000 mm radius
4000	3590	1200 *	-	-	-
3000	4490	900 *	-	1090 *	-
2000	4980	750	-	1060	-
1000	5200	690	1540	1020	730
Ground	5190	670	1450	970	710
-1000	4940	710	1410	940	-

* Rated hydraulic lift capacity

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 3000 mm radius	Lift at 4000 mm radius	Lift at 5000 mm radius
4000	3590	1200 *	-	-	-
3000	4490	1010 *	-	1210 *	-
2000	4980	850 *	-	1210 *	-
1000	5200	780 *	1770 *	1160 *	830 *
Ground	5190	770 *	1670 *	1110 *	810 *
-1000	4940	810 *	1630 *	1080 *	-

* Rated hydraulic lift capacity

Lift Capacity (Long dipperstick - Object handling applications excluded)



Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 3000 mm radius	Lift at 4000 mm radius	Lift at 5000 mm radius
4000	4030	990 *	-	1040 *	-
3000	4830	870 *	-	1040 *	-
2000	5290	840 *	-	1200 *	1230 *
1000	5490	860 *	1980 *	1520 *	1350 *
Ground	5480	930 *	2710 *	1850	1320
-1000	4790	1060 *	2860	1810	1300

* Rated hydraulic lift capacity

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 3000 mm radius	Lift at 4000 mm radius	Lift at 5000 mm radius
4000	4030	990 *	-	1040 *	-
3000	4830	870 *	-	1040 *	-
2000	5290	840 *	-	1200 *	920
1000	5490	860 *	1980 *	1260 *	900
Ground	5480	930 *	2710 *	1200	870
-1000	4790	1060 *	2860	1170	860

* Rated hydraulic lift capacity

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 3000 mm radius	Lift at 4000 mm radius	Lift at 5000 mm radius
4000	4030	990 *	-	1040 *	-
3000	4830	870 *	-	1040 *	-
2000	5290	840 *	-	1200 *	1230 *
1000	5490	860 *	1980 *	1520 *	1350 *
Ground	5480	930 *	2710 *	1860 *	1510 *
-1000	4790	1060 *	3080 *	2080 *	1600 *

* Rated hydraulic lift capacity

Performance

Digging force, dipperstick (ISO 6015)	27459 N
Digging force, long dipperstick (ISO 6015)	24517 N
Digging force, bucket (ISO 6015)	41188 N
Drawbar pull	32362 N

Cycle Times

Boom raise time	2.3 s
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Boom lower time	2.1 s
Bucket curl time	3.3 s
Bucket dump time	2.2 s
Dipperstick retract time	2.5 s
Dipperstick extend time	2.1 s
Boom swing left time	7.2 s
Boom swing right time	6.0 s
Blade raise time	2.7 s
Blade lower time	2.9 s
Slew rate	8.9 RPM

Weights

Operating weight with ROPS cab, single tires, standard bucket (SAE J732), no operator	6312 kg
Additional weight for twin tires	360 kg
Additional weight for long dipperstick	23 kg

Engine

Make / model	Bobcat 2.4L, 97/68 EC Stage V, Turbocharged
Fuel	Diesel
Cooling	Water
Maximum NET power (ISO 9249)	42.5 kW
Maximum governed speed	2400.0 RPM
Maximum NET torque (ISO 9249)	202.0 Nm
Number of cylinders	4
Displacement	2392 cm ³
Bore	90.0 mm
Stroke	94.0 mm
Air filter	Dry, dual element replaceable paper cartridge (two stages)
Ignition	Diesel-compression
Starting aid	Glow plug (electrical heater in combustion chamber)
Crankcase ventilation	Closed breathing
Fuel filter	Two-stage
Glow plug resistance	
Lubrication	Pressure system with filter

Electrical

Alternator	12 V — 90 Ah
Battery	12 V — 100 Ah
Starter	12 V — 2.7 kW

Hydraulic System

Pump type	Split engine-driven axial piston pump and two engine-driven gear pumps
Pump capacity	180.30 L/min
Piston pump capacity	60.00 L/min
Piston pump capacity	60.00 L/min
Gear pump capacity	38.90 L/min
Gear pump capacity	21.40 L/min
System relief pressure for travel circuits	235.00 bar
System relief pressure for auxiliary circuits	235.00 bar

System relief pressure for auxiliary circuits	226.00 bar
Control valve	Open centre, 10 spools
Hydraulic filter	Synthetic media element
Fluid lines	SAE standard tubelines, hoses, and fittings
Auxiliary flow	52.50 L/min

Hydraulic Cylinders

Boom cylinder	Cushion up
Boom cylinder bore	110.0 mm
Boom cylinder rod	60.0 mm
Boom cylinder stroke	712.0 mm
Dipperstick cylinder	Cushion retract and extend
Dipperstick cylinder bore	85.0 mm
Dipperstick cylinder rod	55.0 mm
Dipperstick cylinder stroke	873.0 mm
Bucket cylinder	No cushion
Bucket cylinder bore	80.0 mm
Bucket cylinder rod	50.0 mm
Bucket cylinder stroke	600.0 mm
Boom swing cylinder	No cushion
Boom swing cylinder bore	95.0 mm
Boom swing cylinder rod	50.0 mm
Boom swing cylinder stroke	558.0 mm
Blade cylinder	No cushion
Blade cylinder bore	110.0 mm
Blade cylinder rod	60.0 mm
Blade cylinder stroke	160.0 mm
Leveling cylinder (2)	No cushion
Leveling cylinder bore	75.0 mm
Leveling cylinder rod	75.0 mm
Leveling cylinder stroke	100.0 mm

Buckets

Width (mm)	Weight (kg)	Struck capacity (m ³)	Rated capacity (m ³)
300	84	-	0.062
600	130	-	0.155
1000	191	-	0.276

Slew System

Boom swing, left	80.0°
Boom swing, right	50.0°
Slew circle	Single row shear-type ball bearings with internal gear
Slew drive	High-torque, axial piston motor with 2-stage planetary reduction gear

Drive System

Travel motor	Bent axis piston motor
Drive reduction	Two-speed

Traction

Tire size, single	12-16.5-12PR
Tire size, twin	8.25-15-14PR
Tread width	1600.0 mm
Track width	1780.0 mm
Travel speed, low range	10.0 km/h
Travel speed, high range	30.0 km/h
Undercarriage	Heavy-duty frame, all welded stress-relieved structure
Gradeability	35.0°

Brakes

Parking brake	Spring applied, hydraulically released, multi-disk brake
Slew brake	Spring applied, hydraulically released, multi-disk brake
Travel brake	Spring applied, hydraulically released, multi-disk brake

Fluid Capacities

Cooling system	10.80 L
Engine lubrication plus oil filter	9.20 L
Fuel reservoir	118.00 L
Hydraulic reservoir	95.00 L
Hydraulic system	148.00 L
Axle, front differential	5.10 L
Axle, front hub reduction gear	0.40 L
Axle, front hub reduction gear	0.40 L
Axle, rear differential	4.60 L
Axle, rear hub reduction gear	0.40 L
Axle, rear hub reduction gear	0.40 L
Final drive case (each)	1.50 L

Fluid Specifications

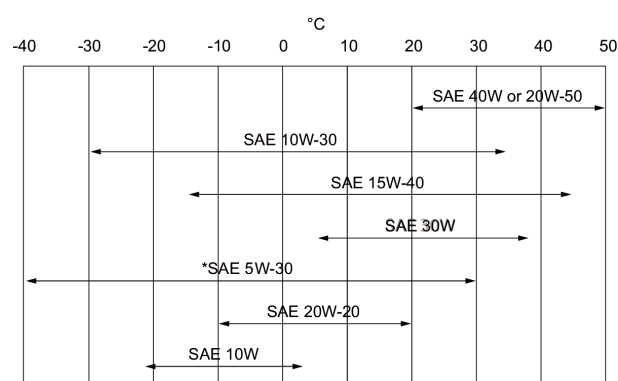
Engine coolant

Ethylene glycol/water mix (50% - 50%) with freeze protection to -37°C

5 L can - 6987803A, 25 L container - 6987803B, 209 L drum - 6987803D, 1000 L tank - 6987803D

Engine oil

Oil must meet API Service Classification of CJ-4 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 - 6987791A, 25 L container - 6987791B, 209 L drum - 6987791C, 1000 L tank - 6987791D

Controls

Engine

Hand dial on the right hand side and foot pedal on the right hand side. Electronically controlled Engine. Auto idle system to reduce fuel consumption.

Starting

Key type starter switch and shutdown.

Blade

Left hand lever.

Boom swing

Left hand joystick after pressing the boom swing selector button on the right hand side control panel.

Hydraulics

Two joysticks control boom, bucket, dipperstick, upper structure slew and boom swing.

Auxiliary hydraulics

Electronic proportional control on the right hand joystick.

Second auxiliary hydraulics

Electronic proportional control on the left hand joystick.

Upper structure slew lock for holding and service

Hydraulic lock on motor and pin lock.

Steering

Direction control by steering wheel and speed governed by foot pedal on the right hand side.

Travel brake

Foot pedal on the right hand side.

Instrumentation

- A/C control panel
- Air filter restriction indicator
- Boom swing switch activation indicator
- Brake oil pressure warning indicator

- Charging system indicator
- Engine check warning indicator
- Engine check warning light
- Engine coolant temperature gauge
- Engine coolant temperature warning indicator
- Engine preheat indicator
- Engine temperature gauge
- Engine oil pressure warning indicator
- Fuel gauge
- Fuel level warning indicator
- Hazard warning light
- High beam light indicator
- High and low travel speed indicators
- Hour meter
- Left and right turn signal indicator lights
- Overload warning indicator
- Parking brake indicator light
- Rpm dial/Auto idle
- Travel indicator light
- Water in fuel filter warning light
- Work light indicator

Serviceability

Fuel filler is external and has key lock for vandal proofing

Access is available to the following through the rear tailgate or side access hood:

- Air cleaner with indicator
- Battery
- Cooling system (engine oil and hydraulic oil coolers) for cleaning
- Control valve
- Engine oil and fuel filters
- Engine oil level
- External electric fuel fill pump
- Hydraulic valve bank
- Starter
- Sight gauges for hydraulic level

Central grease point for swing bearing, swing pinion, and offset cylinder

Tailgate and access cover have locks for vandal-proofing.

Easy access to all grease points.

Standard Features

- Auto-idle
- 2-speed travel system
- Automatic travel speed
- 3 power modes & 3 work modes
- Breaker piping 2-ways
- Boom and arm load holding valves
- Overload warning device (OWD)
- Dozer blade safety valve
- AUX1 & AUX2 arm lines
- Quick Coupler Piping (AUX5)
- Lockable fuel cap and covers
- ROPS (Roll Over Protective Structure) certified cab

- Heated, adjustable air suspension seat with adjustable headrest and armrest
- Forward/Backwards adjustable consoles
- Adjustable tiltable steering column
- Air conditioning with climate control
- Front window with sun roller blind and removable lower front window
- Sun visor on front window
- Sliding left & right window
- Intermittent front window wiper
- Rear window heated
- Joysticks and pedal with proportional control of auxiliary lines for attachments
- Jog shuttle switch
- 7" touch screen display
- Electric horn
- Cigarette lighter / USB port 5V/3A
- Ceiling light
- Cup holder
- Storage compartments in the cab (document holder under seat, lockable storage box,...)
- Storage area for tools
- Anti-theft protection
- 12 V spare power socket
- Rotating beacon
- Right and left rear-view mirrors
- Battery cut-off switch
- Work lights (2 front frame, 1 front cab-mounted, 1 rear cab-mounted, 2 boom-mounted)
- Alternator (12 V, 90 A) - Battery (12 V, 100 Ah)

Options

- Long dipperstick
- Twin tyres with 2290 mm dozer blade
- Third auxiliary hydraulic line (Clamshell Piping)

Attachments

- Accessories
- Auger Accessories
- Augers
- Breaker Accessories
- Breakers
- Clamshell Buckets, Klac
- Clamshell Buckets, Pin-on
- Clamshell Buckets, SW
- Clayspade Buckets, Klac
- Clayspade Buckets, Pin-on
- Clayspade Buckets, SW
- Demolition and Sorting Grabs
- Digging Buckets, German Profile
- Digging Buckets, Klac
- Digging Buckets, Pin-on
- Digging Buckets, SW
- Grading Buckets, German Type
- Grading Buckets, Klac
- Grading Buckets, Pin-on
- Hydraulic Clamps
- Klac
- Laser Equipment
- Multi-Purpose Grab
- Rotary Grinders
- Skeleton Bucket, Klac
- Skeleton Bucket, SW
- Tilt Buckets, Klac
- Tilt Buckets, Pin-on
- Tilt Buckets, SW

Environmental

Noise level LpA(EU Directive 2006/42/EC)	74 dB(A)
Noise level LWA(EU Directive 2000/14/EC)	98 dB(A)
Whole body vibration (ISO 2631–1)	0.56 ms ⁻²
Hand-arm vibration (ISO 5349–1)	0.54 ms ⁻²

Safety

Retractable seat belt, standard	Should always be worn when operating the excavator
Operator cab, standard	Four post cabin shall meet Rollover Protective Structure (ROPS) in accordance with ISO 3471 and Tip Over Protective Structure (TOPS) in accordance with ISO 12117.
Grab handles, standard	Should always be used when entering/exiting excavator.
Safety tread, standard	
Front working lights, standard	Use for indoor and low light operation.
Control lockout, standard	Operator console safety lever locks out work group and travel functions when in the lowered position.
Upper carriage slew lock, standard	An automatic disc brake locks the upper structure to the undercarriage for transport.
Pedal lock, standard	
Travel motion alarm, optional	
Special applications kit, optional	
Operator's handbook, standard	Weather-resistant operator handbook attached to the inside of the cabin, providing operational instructions and warning decals with pictorials and international symbols.