

E80 Bobcat Compact Excavator Specifications

Operational Specifications

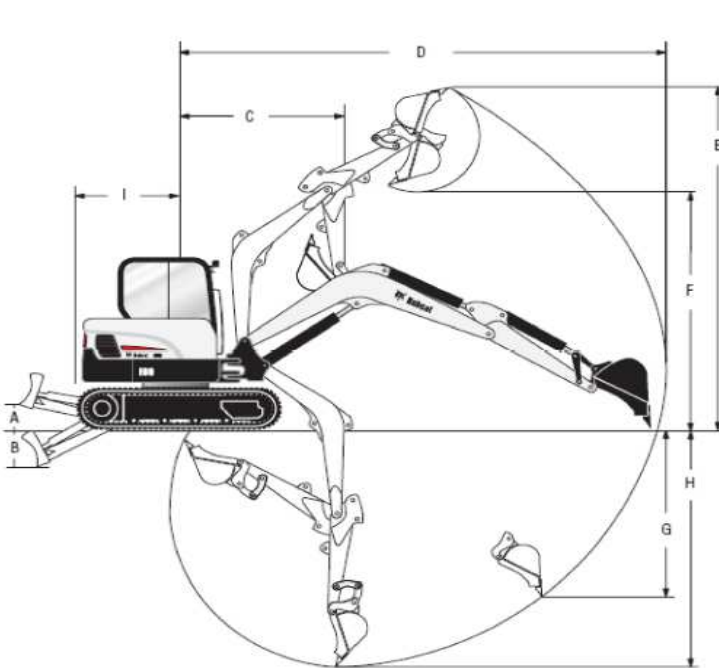
Operating Weight - Canopy, standard arm, rubber tracks, bucket
 - Add for steel tracks

18689 lb (8477 kg)
 + 110 lb (55 kg)

Ground Pressure - w/ standard 17.7" (450 mm) rubber tracks
 Ground Pressure - w/ optional 17.7" (450 mm) steel tracks

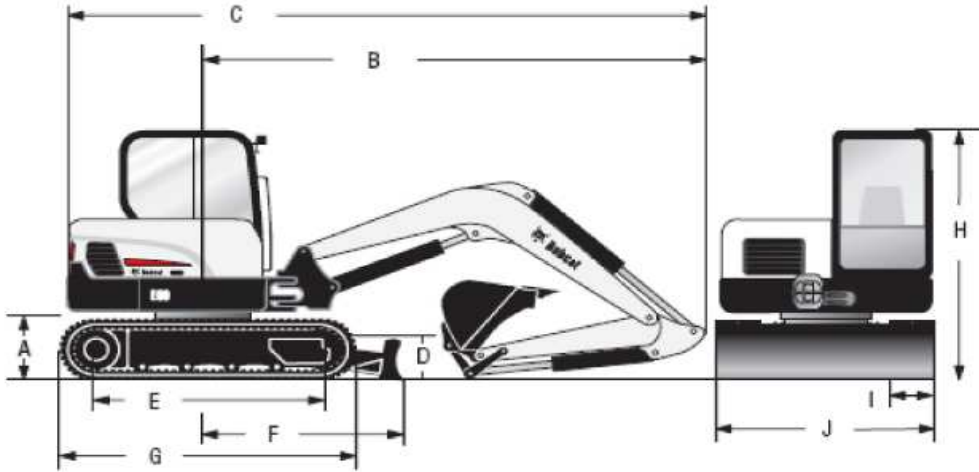
5.7 psi (39.0 kPa)
 5.7 psi (39.0 kPa)

Working Range



	<u>Standard Arm</u>
A. Maximum Blade Height -	17.6" (446 mm)
B. Maximum Blade Depth -	12.0" (304 mm)
C. Maximum Working Equipment Radius, arm retracted -	106.3" (2700 mm)
D. Maximum Radius of Work Equipment -	294.5" (7480 mm)
E. Maximum Bucket Tooth Height -	278.3" (7070 mm)
F. Maximum Dump Height -	200.2" (5085 mm)
G. Maximum Depth of Vertical Wall Dig Depth -	146.9" (3730 mm)
H. Maximum Dig Depth -	184.0" (4675 mm)
I. Swing Clearance, Rear of Upperstructure -	51.1" (1298 mm)
Tail Swing Overhang -	5.8" (148 mm)

Dimensions



A. Clearance, Upperstructure to Groundline -	29.0" (737 mm)
B. Minimum Radius in Transport Position -	188.8" (4797 mm)
C. Overall Length in Transport Position -	242.8" (6167 mm)
D. Blade Height -	17.6" (446 mm)
E. Length of Track on Ground -	86.6" (2200 mm)
F. Machine Centerline to Blade -	75.3" (1912 mm)
G. Overall Length of Track Assembly -	111.1" (2823 mm)
H. Canopy / Cab Height -	106.3" (2700 mm)
I. Track Width (rubber) -	17.7" (450 mm)
J. Blade Width, Standard Blade -	90.6" (2300 mm)

Performance

Arm Breakout Force - Std	7659 lb-f (34068 N)
Bucket Breakout Force -	12280 lb-f (54623 N)
Travel Speed - Low Range -	1.8 mph (2.9 km/hr)
Travel Speed - High Range -	2.9 mph (4.6 km/hr)
Boom Swing - L / R -	70° L / 55° R
Slew Speed -	9.8 rpm

Capacities

Fuel Tank -	29.1 gal (110.0 l)
Cooling System -	2.6 gal (10.0 L)
Engine Oil & Filter -	12.3 qts. (11.6 L)
Hydraulic Tank -	23.0 gal (87.0 L)

Hydraulic System

Pump Type / Number -	Piston-Variable Displacement, Load Sensing
Pump Capacity -	43.8 gpm (166 L/min)
System Relief Setting -	4279 psi (295 Bar)
Auxiliary Relief -	3046 psi (210 Bar)
Auxiliary Flow, Primary -	31.7 gpm (120.0 L/min)
Slew Motor -	Axial Piston Motor with Planetary Gear Reduction
Drive Motors -	Axial Piston Motor with Two Stage Planetary Gear Reduction

Engine & Electrical

Engine Make / Model -	Yanmar/4TNV98-ZWDB8
Fuel / Cooling -	Diesel / Liquid (Propylene Glycol & water mixture)
Horsepower @ rated RPM-	57.0 HP (42.5 kW) @ 2200 rpm
Horsepower (Net) -	53.5 HP (39.9 kW) @ 2200 rpm
Torque, @ Rated RPM -	164.5 ft-lb (223 Nm) @ 1200 rpm
Number of Cylinders -	4
Displacement -	202.5 cu. In. (3.32 L)
Crankcase Ventilation -	Closed Breather
Lubrication -	Pressure System w/ Filter
Oil Filter -	Cartridge Type - Full Flow
Air Filter -	Dual Element, Dry Replaceable Paper Cartridge
Alternator -	12V - 60A
Battery -	12V - 750 CCA @ 0°F (-18 C)
Starter -	12V - 4.0 HP (3.0 kW) w/ Gear Reduction

Serviceability

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

- Air cleaner
- Battery
- Cooling system (engine oil and hydraulic oil coolers) for cleaning
 - cores separable for cleaning purposes
- Engine oil check, oil fill, and oil filter
- Radiator, oil cooler and, if equipped, AC coil
- Sight gauge for hydraulic oil level
- Starter

Rear hood and side hood shall have provision for locking

Central Grease point for slew bearing, slew pinion, offset cylinder

Standard Features

Auto-Idle
Auxiliary Hydraulics - w/ Quick Couplers
Boom Load Holding Valve
Boom Swing
Control Console Locks
Control Pattern Selector Valve (ISO/STD)
Dozer Blade
Enclosed Cab with Heater and Air Conditioning

- Includes: Retractable Seat Belt
- Cloth Suspension Seat wqith High Back
- Mirror

Horn
Hydraulic Joystick Controls
Rubber Tracks
Spark Arrestor Muffler
Two Speed Travel
Warranty - 12 Months
Work Lights

Options/Accessories

AM/FM Radio
Beacon Light
Hydraulic Clamp
Keyless Start
Secondary Auxiliary Hydraulics
Special Applications Kit/FOGS Level II

- Top and Front Guard

Steel Tracks
Strobe Light
Travel Motion Alarm

Controls

Engine starting: Key type ignition switch with key shut down
Engine Speed control: Rotary Dial with auto-idle feature
Vehicle Steering: Direction and speed controlled by two hand levers or foot pedals
Excavator Functions: Two hydraulic joysticks control boom, arm, bucket & slew functions.
Foot pedals control auxiliaries & boom swing.
Blade is controlled by separate lever
Service Brake (travel): Hydraulic lock on motor
Parking Brake (travel): Hydraulic Lock on motor
Service Brake (slew): Hydraulic lock on motor
Holding Brake (slew): Automatically applied slew brake integrated in motor

Instrumentation

Air Filter Indicator
Auto-Idle Indicator
Engine Check Warning Light
Engine Oil Pressure Light w/ Audible Alarm
Engine Temperature Gauge w/ Audible Alarm
Fuel Gauge with low fuel indicator
Hour Meter
Pre-Heat (start assist) Indicator

Warranty

One year unlimited hours -	Standard
24 month, 2000 hour limit -	Optional
36 month, 3000 hour limit -	Optional
60 month, 5000 hour limit, (Municipalities only) -	Optional

Safety

Retractable Seat Belt (std):	Should always be worn when operating the excavator
Grab Handles (std):	Should always be used when entering/exiting the excavator
Front Working Lights (std):	Use for indoor and low light operation
Control Lockout (std):	Operator consoles shall lock out all functions when in the upright position.
Slew Brake (std):	Automatic activating slew brake shall lock upper structure to undercarriage for transport
Operators Handbook (std):	Weather resistant operator handbook written in English will be attached to inside of cab, providing operational instructions and warnings by decals with pictorials and international symbols plus some messages in four basic languages: English, French, German and Spanish
Travel Motion Alarm:	<u>Optional</u> - For use when required
Special Applications Kit:	<u>Optional</u> - Restricts objects and material from entering front and top of operator station.

Training Resources

Bobcat Excavator Operator Training Course -

- Four hour course provides video, classroom & hands-on training

Bobcat Excavator Service Safety Training Course -

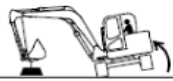
- Two hour course provides video, classroom and hands-on training

Lift Chart

WARNING

OVERLOAD CAN TIP THE EXCAVATOR AND CAUSE INJURY OR DEATH

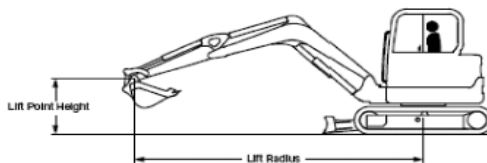
- Do not lift or hold any load that exceeds these ratings at their specified load radii and height.
- Total rated load is shown. The weight of all lifting devices must be deducted to determine the net load that can be lifted.



Where applicable, specifications conform to ISO Standards. Specifications are subject to change without notice. Lift Point is bucket hinge point with standard bucket attached and bucket cylinder fully extended.

EXCAVATOR MODEL E80

CIRCUIT PRESSURES		BOOM LENGTH	3380 mm	(133.1 in)
WORKING	295 bar (4279 psi)	ARM LENGTH	2250 mm	(88.6 in)
HOLDING	310 bar (4496 psi)	STANDARD BUCKET	610 mm	(24.0 in)
			191 kg	(420 lb)



LIFT POINT HEIGHT mm (in.)	RATED LIFT CAPACITY OVER BLADE, BLADE DOWN - kg (lb)					RATED LIFT CAPACITY OVER BLADE, BLADE UP - kg (lb)					RATED LIFT CAPACITY OVER SIDE, BLADE UP - kg (lb)				
	LIFT RADIUS - mm (in)				LIFT @ MAXIMUM RADIUS, kg (lb) @ mm (in)	LIFT RADIUS - mm (in)				LIFT @ MAXIMUM RADIUS, kg (lb) @ mm (in)	LIFT RADIUS - mm (in)				LIFT @ MAXIMUM RADIUS, kg (lb) @ mm (in)
	3000 (118.1)	4000 (157.5)	5000 (196.9)	6000 (236.2)		3000 (118.1)	4000 (157.5)	5000 (196.9)	6000 (236.2)		3000 (118.1)	4000 (157.5)	5000 (196.9)	6000 (236.2)	
5000 (196.9)			*1200 (2646)		*1170 (2579) @ 5020 (198)			*1200 (2646)		*1170 (2579) @ 5020 (198)			1090 (2403)		1080 (2381) @ 5020 (198)
4000 (157.5)			*1270 (2800)		*1120 (2469) @ 5730 (226)			1270 (2800)		940 (2072) @ 5730 (226)			1110 (2447)		820 (1808) @ 5730 (226)
3000 (118.1)		*1500 (3307)	*1390 (3064)	*1340 (2954)	*1110 (2447) @ 6170 (243)		*1500 (3307)	1240 (2734)	850 (1874)	800 (1764) @ 6170 (243)		*1500 (3307)	1090 (2403)	740 (1631)	690 (1521) @ 6170 (243)
2000 (78.7)	*2780 (6129)	*1960 (4321)	*1600 (3527)	*1410 (3108)	*1120 (2469) @ 6380 (251)	*2780 (6129)	1770 (3902)	1190 (2623)	830 (1830)	730 (1609) @ 6380 (251)	2520 (5556)	1540 (3395)	1040 (2293)	720 (1587)	630 (1389) @ 6380 (251)
1000 (39.4)	*3850 (8488)	*2420 (5335)	*1810 (3990)	*1490 (3285)	*1200 (2646) @ 6410 (252)	2660 (5864)	1650 (3638)	1130 (2491)	810 (1786)	700 (1543) @ 6410 (252)	2250 (4960)	1430 (3153)	980 (2161)	700 (1543)	610 (1345) @ 6410 (252)
Ground	*4230 (9325)	*2700 (5952)	*1970 (4343)	*1530 (3373)	*1350 (2976) @ 6260 (247)	2520 (5556)	1560 (3439)	1080 (2381)	780 (1720)	730 (1609) @ 6260 (247)	2120 (4674)	1340 (2954)	930 (2050)	670 (1477)	620 (1367) @ 6260 (247)
-1000 (-39.4)	*4100 (9039)	*2720 (5997)	*1970 (4343)		*1530 (3373) @ 5900 (232)	2480 (5467)	1520 (3351)	1050 (2315)		800 (1764) @ 5900 (232)	2090 (4608)	1300 (2866)	910 (2006)		690 (1521) @ 5900 (232)

* Rated Hydraulic Lift Capacity

74485 SW

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