

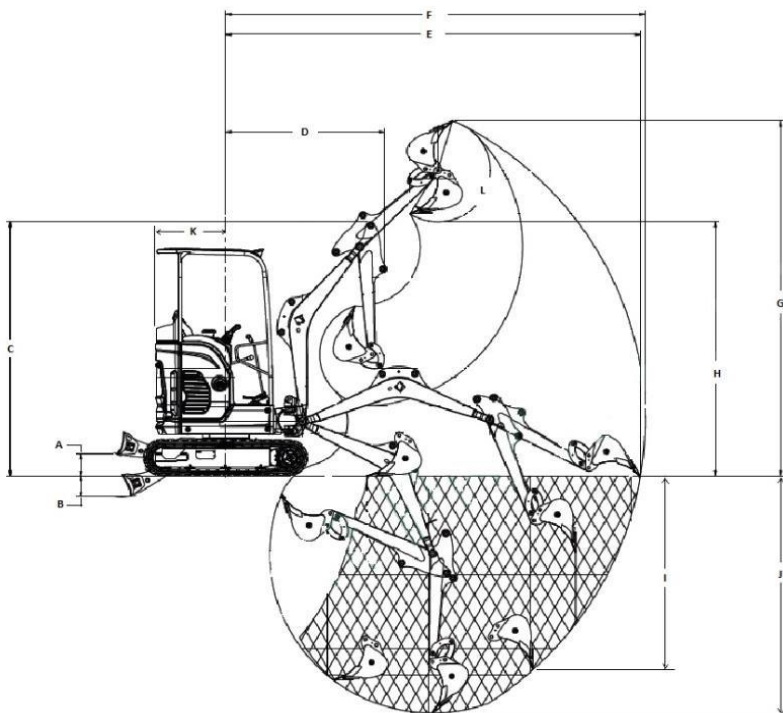
E20 Compact Excavator Specifications

Operating Weights & Ground Pressure

Operating Weight - Canopy, rubber tracks, bucket	4306 lb (1953 kg)
- Add for Cab & Heater	+178 lb (81 kg)
Ground Pressure - 9" (230 mm) Rubber Tracks	4.36 psi (30.1 kPa)

Working Range

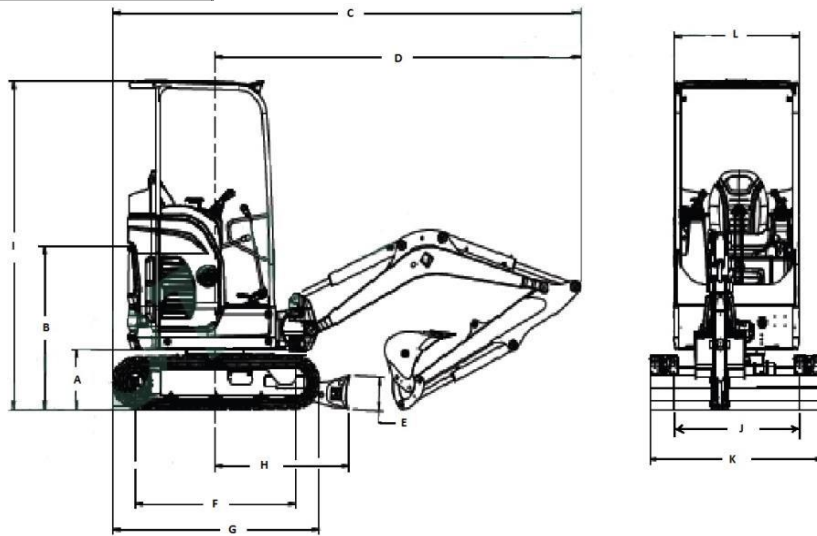
Arm Length: 50" (1270 mm)



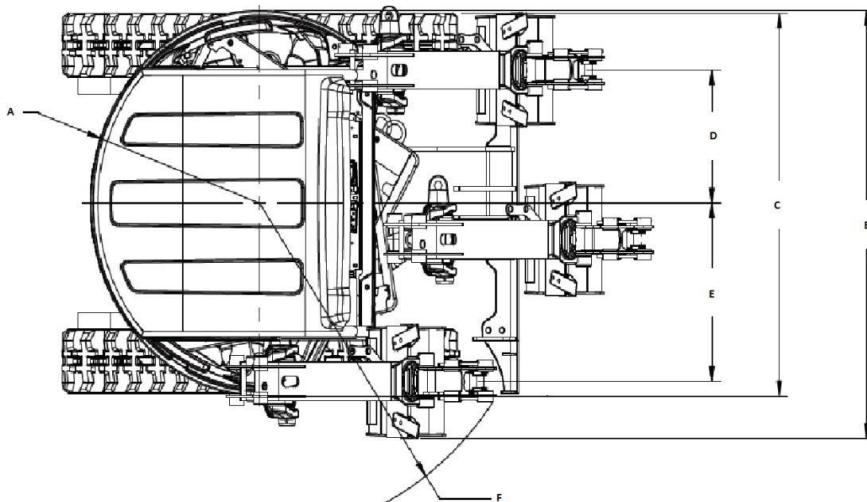
A. Maximum Blade Height -	11.8" (300 mm)
B. Maximum Blade Depth -	10" (254 mm)
C. Maximum Height of Working Equipment, arm retracted -	100.9" (2564 mm)
D. Maximum Working Equipment Radius, arm retracted -	63.4" (1611 mm)
E. Maximum Reach at Ground Level -	167.9" (4264 mm)
F. Maximum Reach -	169.6" (4307 mm)
G. Maximum Bucket Tooth Height -	145.7" (3701 mm)
H. Maximum Dump Height Clearance -	106.0" (2693 mm)
I. Maximum Depth of Vertical Wall Dig Depth -	83.3" (2115 mm)
J. Maximum Dig Depth -	102.4" (2602 mm)
K. Swing Clearance, Rear of Upperstructure -	27.1" (690 mm)
L. Bucket Pivot Angle -	196°

**Specification(s) are based on engineering calculations and are not actual measurements. Specification(s) are provided for comparison purposes only and are subject to change without notice. Specification(s) for your individual Bobcat equipment will vary based on normal variations in design, manufacturing, operating conditions, and other factors.*

Dimensions



A. Clearance, Upperstructure to Groundline -	16.5" (419 mm)
B. Groundline to top of Engine Cover -	44.8" (1138 mm)
C. Overall Length in Transport Position -	145.2" (3688 mm)
D. Minimum Radius in Transport Position -	113.5" (2882 mm)
E. Blade Height -	9.3" (235 mm)
F. Length of Track on Ground -	49.5" (1258 mm)
G. Overall Length of Track Assembly -	63.8" (1620 mm)
H. Machine Centerline to Blade -	49.3" (1252 mm)
I. Canopy / Cab Height -	90.4" (2297 mm)
J. Width - Undercarriage Retracted -	38.6" (980 mm)
K. Width - Undercarriage Expanded -	53.5" (1360 mm)



A. Swing Clearance, Rear of Upperstructure -	27.1" (690 mm)
B. Working Width, Maximum Left Boom Swing -	60.3" (1532 mm)
C. Working Width, Maximum Right Boom Swing -	53.9" (1370 mm)
D. Machine Center Line to Work Equipment Center Line, Right -	18.7" (476 mm)
E. Machine Center Line to Work Equipment Center Line, Left -	25.1" (638 mm)
F. Minimum Turning Radius -	46.8" (1190 mm)

Standard Features

Auxiliary Hydraulics with Quick Couplers

Canopy:

- Cup Holder, Retractable Seat belt
- Roll Over Protective Structure (ROPS)
- Tip Over Protective Structure (TOPS)
- Falling Object Guard Structure (FOGS)

Control Console Locks

Control Pattern Selector Valve (ISO/STD)

Dozer Blade with Extensions

Engine /Hydraulic Monitor w/ Shutdown

Horn

Hydraulic Joystick Controls

Hydraulically Retractable Undercarriage

Rubber Tracks - 9" (230 mm)

Spark Arrestor Muffler

Two Speed Travel

Warranty - 12 Months

Work Light

Options/Accessories

Auto-Shift Travel

AM/FM Radio

Cab Enclosure w/ Heater

Beacon Light

Falling Object Guard System

Fingertip Auxiliary & Boom Swing Control
with Selectable Auxiliary Flow

Keyless Start

Special Applications Kit

Steel Tracks

Travel Motion Alarm

Instrumentation

Charging System Indicator

Console Position Indicator

Engine Oil Pressure Light w/ Audible Alarm

Engine Temperature Light w/ Audible Alarm

Hydraulic System Warning Light w/ Audible Alarm

Fuel Level & Engine Coolant Temperature Gauges

Hour Meter/Job Clock/Engine RPM display

Two Speed (travel) 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

Engine & Electrical

Engine Make / Model -	Kubota D722-E4B-BCZ-7	Tier 4
Fuel / Cooling -	Diesel / Liquid	
Horsepower -	13.9 HP (10.4 kW) @ 2500 RPM	
Horsepower _(net) -	13.3 HP (9.9 kW) @ 2500 RPM	
Torque, @ Rated RPM _(Net) -	31.1 ft-lb (42.2 Nm) @ 2000 RPM	
Number of Cylinders -	3	
Displacement -	43.9 cu in (.7 L)	
Bore x Stroke -	2.64" x 2.68" (67 x 68 mm)	
Oil Filter -	Cartridge Type - Full Flow	
Air Filter -	Dual Element, Dry Replaceable Paper Cartridge	
Alternator -	12V - 40A	
Battery -	12V - 530 CCA @ 0 (-18 C): 75 Minute Reserve Capacity	
Starter -	12V - 1.9 HP (1.4 kW) w/ Gear Reduction	

Hydraulic System

Pump Type / Number -	Dual Piston w/ Gear
Pump Capacity -	(2) @ 4.0 gpm (15 L/min); (1) @ 3.0 gpm (11.3 L/min)
Control Valve -	9 Spool, parallel series type, open center
System Relief Setting -	3350 psi (230 Bar)
Auxiliary Relief Setting -	2610 psi (180 bar)
Auxiliary Flow -	7.9 gpm (30 L/min)
Slew Motor -	Orbital Motor with automatic slew brake
Drive Motor -	Axial Piston Motor with Two Stage Planetary Gear Reduction

Performance

Arm Breakout Force -	2086 ft-lb (9279 N)
Bucket Breakout Force -	4684 ft-lb (20835 N)
Travel Speed - Low Range -	1.5 mph (2.5 km/h)
Travel Speed - High Range -	2.5 mph (4.0 km/h)
Drawbar Pull (90% eff) -	4404 lb-f (19590 N)
Boom Swing - L / R -	80° / 60°
Slew Speed -	8.4 RPM

Capacities

Fuel Tank -	5 gal (19 L)
Cooling System -	3.5 qts (3.3 L)
Engine Oil & Filter -	3.5 qt (3.3 L)
Hydraulic System -	5.02 gal (19 L)

Controls

Engine starting:	Key type ignition switch with key shut down
Engine Speed control:	Hand lever
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 auxiliary hydraulics and 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 into motor

Serviceability

Access is available to the following through the rear door, side door, or under the operator seat:

- Air cleaner
- Battery
- Cooling system (engine coolant and hydraulic oil coolers) for cleaning
- Engine oil check, oil fill, and oil filter
- Sight gauge for hydraulic oil level
- Starter

Fuel fill shall have locking provisions

Tailgate shall have provision for locking

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

Safety

ROPS/TOPS (std):	Canopy, and optional enclosed cab, shall be ROPS/TOPS certified
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 Light (std):	Use for indoor and low light operation
Control Lockout (std):	Operator consoles shall lock out all excavator functions
House Slew Lock (std):	Automatic activating slew brake shall lock upper structure to undercarriage for transport
Travel Motion Alarm:	<u>Optional</u> - For use when required
Special Applications Kit:	<u>Optional</u> - Restricts objects and material from entering front of operator station.

Training Resources

Bobcat Excavator Operator Training Course -

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

Bobcat Excavator Service Safety Training Course -

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