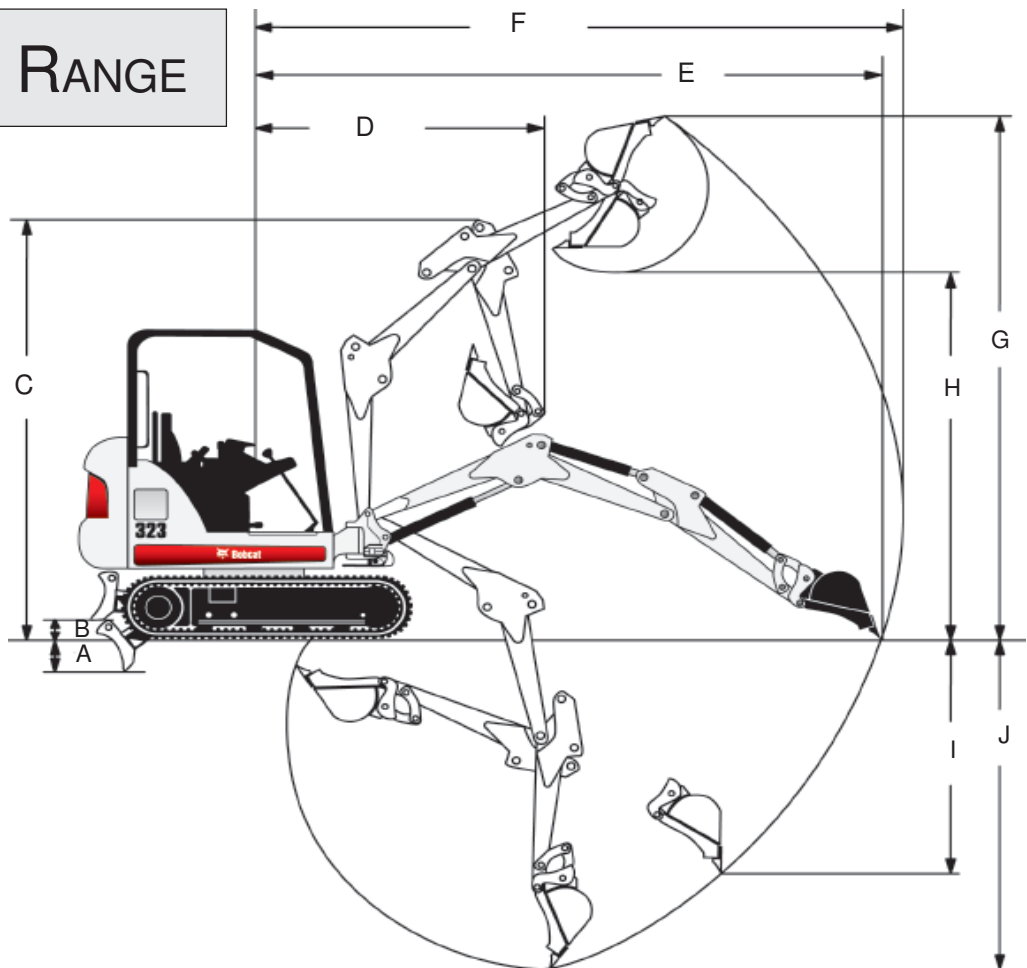


323 COMPACT EXCAVATOR SPECIFICATIONS

WORKING RANGE



A.	Maximum Blade Height	7.0" (179 mm)
B.	Maximum Blade Depth	10.5" (266 mm)
C.	Maximum Height of Working Equipment with Arm Retracted	110.3" (2802 mm)
D.	Maximum Working Equipment Radius with Boom @ Maximum Height	69.7" (1770 mm)
E.	Maximum Reach at Ground Level	154.0" (3912 mm)
F.	Maximum Radius of Working Equipment	158.0" (4014 mm)
G.	Maximum Bucket Tooth Height	138.8" (3527 mm)
H.	Maximum Dump Height	100.3" (2547 mm)
I.	Maximum Depth of Vertical Wall which can be Excavated	69.5" (1766 mm)
J.	Maximum Dig Depth	90.4" (2297 mm)
	Bucket Pivot Angle	194°

MACHINE PERFORMANCE

Operating Weight (includes standard equipment and 20" Bucket)

With ROPS Canopy 3668 lbs. (1664 kg.)

With ROPS Cab 3878 lbs. (1759 kg.)

Travel Speed

Low Range 1.4 mph (2,3 km/hr)

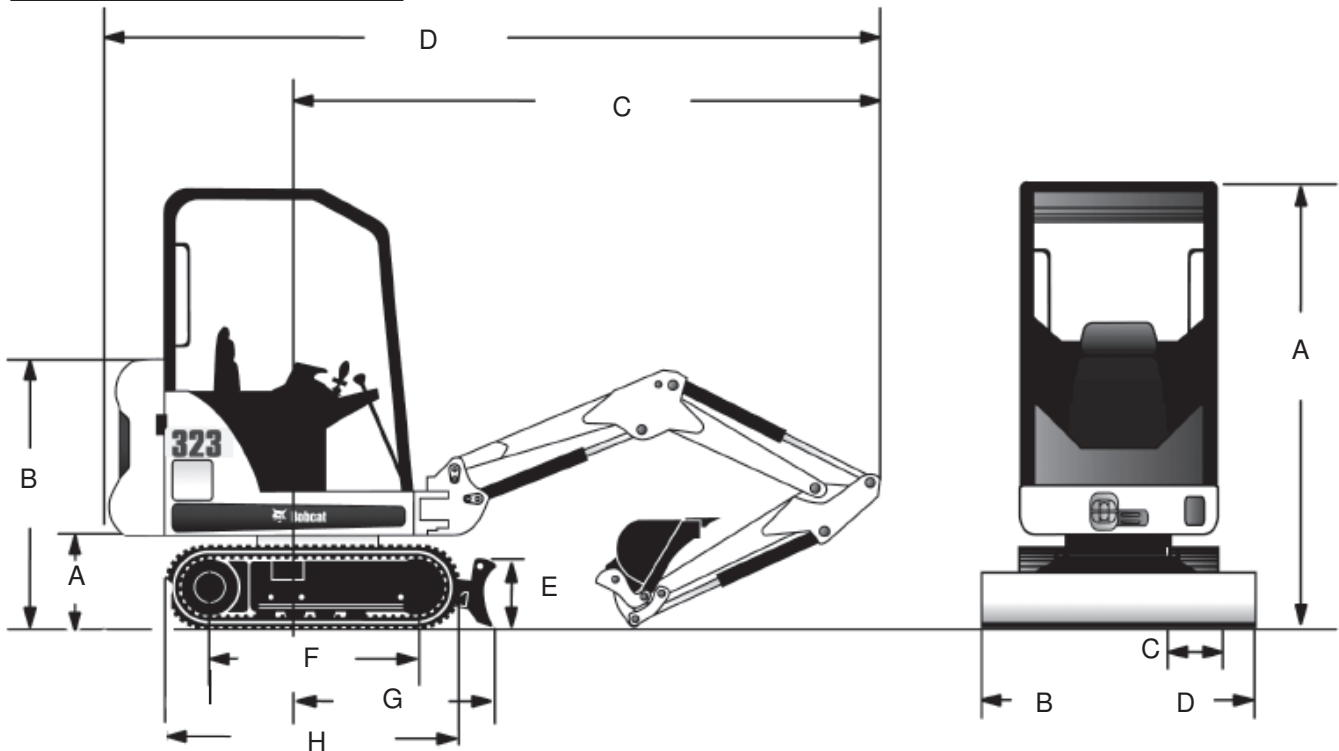
High Range 2.4 mph (3,8 km/hr)

Digging Force

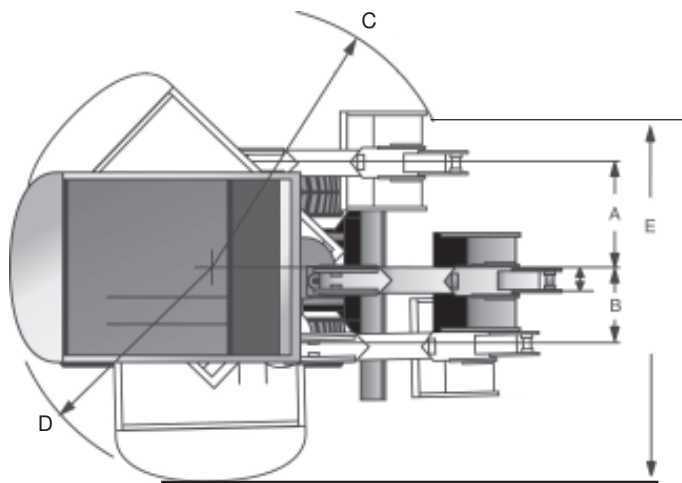
Arm 1996 lbf. (8879 N)

Bucket 3751 lbf. (16685 N)

DIMENSIONS



- | | | | |
|--|------------------|---------------------------------|-----------------|
| A. Clearance, upperstructure to groundline | 17.6" (448 mm) | A. Height | 86.7" (2202 mm) |
| B. Groundline to top of engine cover | 52.3" (1327 mm) | B. Blade width | 38.6" (980 mm) |
| C. Minimum radius in travel position | 110.9" (2816 mm) | C. Track width | 9.06" (230 mm) |
| D. Overall length in travel position | 153.0" (3886 mm) | D. Blade width with extension . | 53.5" (1360 mm) |
| E. Blade height..... | 10.3" (261 mm) | Track Lug Height | 0.98" (25 mm) |
| F. Length of track on ground | 43.9" (1114 mm) | | |
| G. Machine centerline to blade..... | 33.8" (858 mm) | | |
| H. Overall length of track assembly | 58.0" (1473 mm) | | |



- | | |
|--|-----------------|
| A. Machine centerline to working equipment centerline, left hand rotation | 23.6" (600 mm) |
| B. Machine centerline to working equipment centerline, right hand rotation | 18.9" (481 mm) |
| C. Minimum turning radius | 55.0" (1398 mm) |
| D. Swing clearance, rear of upperstructure | 42.1" (1068 mm) |
| E. Working width maximum left hand rotation | 73.8" (1875 mm) |
| F. Tail Swing Overhang (retracted) | 22.8" (579 mm) |
| G. Tail Swing Overhang (tracks extended) | 15.4" (391 MM) |

STANDARD FEATURES

3'2" Dozer Blade with (2) 7" Blade Extensions
 9.06" Rubber Track
 Auxiliary Hydraulics with quick couplers
 Control Console Locks
 Control Pattern Selector Valve (ISO/STD)
 Horn
 Hydraulically Retractable Undercarriage: 38.6" - 53.5"
 Hydraulic Joystick Controls
 Retractable Seat Belt
 Spark Arrestor Muffler
 Suspension Seat
 *TOPS/ROPS Canopy
 Two-Speed Travel
 Vandalism Protection
 Working Lights
 Warranty: 12 Months, Unlimited Hours

*Roll Over Protective Structure (ROPS) - Meets Requirements of SAE-J1040C
 *Tip Over Protective Structure (TOPS) - Meets Requirements of ISO/DIS 12117

OPTIONS/ ACCESSORIES

AM/FM Stereo Radio
 Beacon Light
 Cab/Canopy Light Kit
 Catalytic Exhaust Purifier Kit
 Engine Block Heater
 Falling Object Guard System (FOGS)
 Rental Investment Protection System (RIPS)
 Special Applications Kit
 Steel Tracks
 Strobe Light
 TOPS/ROPS Cab with Heater
 Travel Motion Alarm

INSTRUMENTATION

Right of Operator Seat

Charging System Light with Audible Alarm
 Console Indicator
 Engine Oil Pressure Light with Audible Alarm
 Engine Temp Light with Audible Alarm
 Fuel Gauge - on Left Side with Console Indicator
 Hourmeter
 Pre-Heat Indicator
 Two Speed Indicator

UNDERCARRIAGE

Undercarriage Crawler-Type Tractor Design
 Track Rollers Sealed with Reinforced Box-Section Track Roller Frame
 Track Adjusters Grease-Type with Shock Absorbing Recoil Springs
 Track Type (Standard) Half Pitch Rubber
 Track Type (Optional) Steel Shoe
 Track Width 9.06" (230 mm)
 Number of Track Rollers 3 each side
 Ground Pressure with Rubber Tracks .. 4.13 psi (28,4 kPa)
 Ground Pressure with Steel Tracks 4.26 psi (29,4 kPa)

ENGINE/ELECTRICAL

Make/Model Kubota/D722
 Fuel/Cooling Diesel/Liquid
 Horsepower (SAE Gross) 13.9 HP (10,4 kW)
 Horsepower (SAE Net) 13.3 HP (9,9 kW)
 Rated Governed RPM 2500 RPM
 Torque @ 2000 RPM (SAE Gross) 31.1 ft. -lbs. (42,2 Nm)
 Number of Cylinders 3
 Displacement 43.9 cu. in. (0,72 L)
 Bore x Stroke 2.64 x 2.68 in. (67 x 68 mm)
 Lubrication Pressure System with Filter
 Filter Cartridge Type - Full Flow
 Air Cleaner Dry replaceable paper cartridge
 Alternator 12 volt; 40 amps, open frame with internal regulator
 Battery 12 volt; 530 cold cranking amps @ 0°F (-18°C);
 75 minute reserve capacity
 Starter 12 volt; 1.9 HP (1.4 kW) Gear Reduction Type

HYDRAULIC SYSTEM

Pump Type	Dual piston pump with gear pump
Pump Capacity	1 x 3.4 GPM (13,0 L/min)
	2 x 4 GPM (15,0 L/min)
System Relief Pressure	2700 PSI (18616 kPa)
Auxiliary Relief	2700 PSI (18616 kPa)
Auxiliary Flow	7.9 GPM (30,0 L/min)
Control Valves	9 Spool, Open Center
Drive Motors	Two Axial Piston Motors
Swing Motor	Orbit Motor
Oil Cooler	Standard Equipment
Swing Speed	10.2 RPM
Boom Swing (Left)	50°
Boom Swing (Right)	90°

Hydraulic Function Times

Bucket	Curl	1.9 Seconds	Dump	1.2 Seconds
Arm	Retract	2.5 Seconds	Extend	1.6 Seconds
Boom	Raise	3.9 Seconds	Lower	2.8 Seconds
Boom Swing	Left	3.9 Seconds	Right	3.5 Seconds
Blade	Raise	2.6 Seconds	Lower	2.6 Seconds
Undercarriage	Expand	4.6 Seconds	Retract	3.6 Seconds

DRIVE SYSTEM

Final Drive	Each track is driven by a hydrostatic axial piston motor
Type of Reduction	Two stage planetary gear reduction
Max. Drawbar Pull	3660 lb. (1660 kg)
Gradability Traveling	
Down or Backing Up Slopes	30°
Gradability Traveling On Side Slopes	15°
Gradability Traveling Up Side Slopes	15°

CAPACITIES

Fuel Tank	7.3 gal. (27,5 L)
Cooling System	1.5 gal. (5,7 L)
Engine Oil and Filter	3.75 qts. (3,5 L)
Hydraulic Reservoir	1.7 gal. (6,5 L)

CONTROLS

Vehicle Steering	Direction and speed controlled by two hand levers or foot pedals
Excavator Functions	Two hydraulic joysticks control boom, arm, bucket and cab swing. Two foot pedals control boom swing and auxiliary hydraulics. The blade is controlled by a separate lever.
Service Brake (Travel) ...	Hydraulic lock on motor
Parking Brake (Travel) ...	Hydraulic lock on motor
Service Brake (Swing) ...	Hydraulic lock on motor
Holding Brake (Swing) ...	Pin lock

HYDRAULIC CYLINDERS

	<i>Bore Diameter</i>	<i>Rod Diameter</i>	<i>Stroke Diameter</i>
Boom (cushion up)	2.38 in. (60,4 mm)	1.38 in. (34,9 mm)	13.59 in. (345,2 mm)
Arm	2.38 in. (60,4 mm)	1.50 in. (38,1 mm)	16.57 in. (420,9 mm)
Bucket	2.25 in. (57,6 mm)	1.50 in. (38,1 mm)	15.16 in. (385,1 mm)
Boom Swing (cushion left and right) ...	3.25 in. (82,6 mm)	1.25 in. (31,8 mm)	14.71 in. (373,6 mm)
Blade	2.38 in. (60,4 mm)	1.38 in. (34,9 mm)	5.20 in. (132,1 mm)
Undercarriage	2.00 in. (50,8 mm)	1.00 in. (25,4 mm)	14.96 in. (380 mm)

ATTACHMENTS

- Auger
- Grading Bucket
- Hydraulic Breaker
- Hydraulic Clamp
- Trenching Buckets

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

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.

CIRCUIT PRESSURES
 WORKING 166 bar (2700 psi)
 HOLDING 230 bar (3325 psi)

BOOM LENGTH 1648 mm (64.9 in.)
ARM LENGTH 1123 mm (44.2 in.)
STANDARD BUCKET 418 mm (16.5 in.)
 34 kg (75.3 lbs)

EXCAVATOR MODEL 323

LIFT POINT HEIGHT	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)			RATED LIFT CAPACITY OVER SIDE, BLADE UP/TRACKS EXTENDED - kg (lb)		
	LIFT RADIUS - mm (in)			LIFT RADIUS - mm (in)			LIFT RADIUS - mm (in)			LIFT RADIUS - mm (in)		
	2000 (76.7)	3000 (118.1)	Max.	2000 (76.7)	3000 (118.1)	Max.	2000 (76.7)	3000 (118.1)	Max.	2000 (76.7)	3000 (118.1)	Max.
3080 (118.1)			1124 (399)			1173 (399)			1178 (399)			1188 (414)
2080 (78.7)		1208 (495)	1285 (452)		1167 (435)	120 (425)		152 (334)	125 (275)		1204 (459)	1261 (443)
1080 (38.6)	1484 (592)	1349 (542)	122 (49)	1384 (547)	161 (423)	127 (324)	357 (998)	136 (297)	104 (232)	118 (914)	256 (999)	223 (992)
Ground	132 (1172)	180 (542)	244 (538)	213 (556)	177 (324)	158 (321)	220 (482)	122 (258)	111 (242)	481 (222)	235 (518)	185 (467)
-1080 (-38.6)	1426 (862)		1270 (286)	325 (872)		181 (424)	303 (668)		142 (314)	108 (242)		121 (346)

* Rated Hydraulic Lift Capacity

SERVICEABILITY

Access is available to the following through the rear tailgate:

- Air cleaner with indicator
- Engine oil and fuel filters
- Engine oil level
- Fuel Fill
- Hydraulic Filter and fill
- Starter
- Cooling system (engine oil and hydraulic oil coolers) for cleaning
- Sight gauges for hydraulic level

Tailgate has a lock for vandal proofing.

Easy access to all grease points.

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

SAFETY

- Retractable Seat Belt (Std.) Should always be worn when operating the excavator
- Operator Cab A four post canopy or optional enclosed cab provided. Four post canopy and cab shall meet Roll Over Protective Structure (ROPS) in accordance with SAE J1040 and Tip Over Protective Structure (TOPS) in accordance with ISO 12117. An optional Falling Object Guard Structure (FOGS) shall be in accordance with ISO 10262 Level 1 for top guard.

Level 1 – 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.

- Grab Handles (Std.) Should always be used when entering/exiting excavator.
- Safety Tread Slip resistant tread on canopy threshold to be used when entering/exiting excavator.
- Front Working Lights (Std.) Use for indoor and low light operation.
- Control Lockout (Std.) Operator console shall lock out work group functions when in the upright position.
- House Swing Lock (Std.) A lock pin shall be provided to lock the upper carriage to the undercarriage for transporting.
- Pedal Lock (Std.) Pedal lock shall prevent activation of boom swing and auxiliary functions.
- Travel Motion Alarm (Opt.) For use when required.
- Special Applications Kit (Opt.) Restricts objects and material from entering cab openings.
- Operator's Handbook 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.

TRAINING RESOURCES

Bobcat Excavator Operator Training Course

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

Bobcat Excavator Service Safety Training Course

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