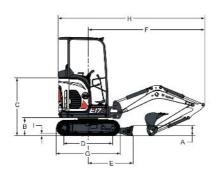
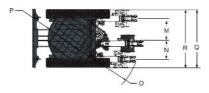


Dimensions



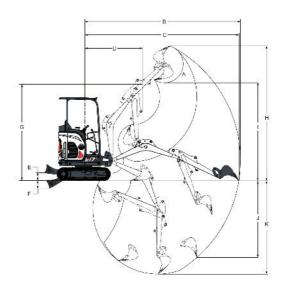




(A) E	Blade height	235.0 mm
(B) (Clearance, upper structure to ground line	419.0 mm
(C) (Ground line to top of engine cover	1138.0 mm
(D) L	Length of track on ground	1114.0 mm
(E) N	Machine centre line to blade	1045.0 mm
` '	Minimum radius in travel position	2715.0 mm
(G) (Overall length of track assembly	1476.0 mm
(H) (Overall length in travel position	3450.0 mm
(l) T	Track lug height	25.0 mm
(J) E	Blade width	980.0 mm
(J*) E	Blade width (extensions extended)	1360.0 mm
(K) H	Height	2297.0 mm
(L) 7	Track width	230.0 mm
(M) N	Machine centre line to working equipment centre line, left-hand rotation	450.0 mm
(N) N	Machine centre line to working equipment centre line, right-hand rotation	638.0 mm
(O) N	Minimum turning radius	1190.0 mm
(P) S	Swing clearance, rear	690.0 mm
(Q) \	Working width at maximum right-hand rotation	1532.0 mm
(R) \	Working width at maximum left-hand rotation	1370.0 mm



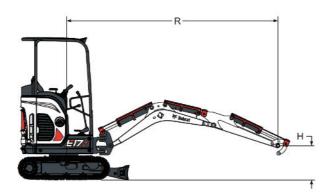
Working Range



 (A) Bucket pivot angle (B) Maximum reach of working equipment (C) Maximum reach at ground level (D) Maximum working equipment radius with boom at maximum height and dipperstick fully retracted 	196.0° 3971.0 mm 3923.0 mm 1560.0 mm
 (E) Maximum blade height (E*) Maximum blade height with long blade (F) Maximum blade depth (F*) Maximum blade depth with long blade (G) Maximum height of working equipment with dipperstick retracted (H) Maximum bucket tooth height 	220.0 mm 300.0 mm 204.0 mm 254.0 mm 2406.0 mm 3378.0 mm
(I) Maximum dump height(J) Maximum depth of vertical wall which can be excavated(K) Maximum digging depth	2369.0 mm 1810.0 mm 2249.0 mm



Lift Capacity - Standard blade



Lift point height [H]	Maximum radius [R]	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius
(mm)	(mm)			
2000	3000	344*	-	-
1000	3338	337*	438*	369*
Ground	3350	320*	742*	398*
-1000	2940	306*	609*	-
* Rated hydraulic lift capacity				
Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius
2000	3000	233*	-	-
1000	3338	190*	425	229
Ground	3350	182*	380	214
-1000	2940	215*	363	-
* Rated hydraulic lift capacity		'		
Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius
2000	3000	263	-	-
1000	3338	218	438*	264
Ground	3350	210	431	251
-1000	2940	249	425	-
* Rated hydraulic lift capacity		,		



Performance	
Digging force, dipperstick (ISO 6015) Digging force, bucket (ISO 6015) Drawbar pull Ground pressure with rubber tracks	9108 N 16177 N 19302 N 30.06 kPa
Cycle Times	
Boom raise time Boom lower time Bucket curl time Bucket dump time Dipperstick retract time Dipperstick extend time Boom swing left time Boom swing right time Blade raise time Blade lower time Slew rate Undercarriage expand time Undercarriage retract time	2.2 s 1.5 s 1.7 s 1.1 s 2.2 s 1.6 s 3.7 s 3.0 s 2.6 s 2.6 s 10.1 RPM 4.1 s 3.5 s
Weights	
Operating weight with cab and bucket (ISO 6016) Transport mass (no attachment) Additional weight for long dozer blade	1749 kg 1632 kg 9 kg
Engine	
Make / model Fuel Cooling Maximum power @ 2500 rpm (ISO 14396) Maximum torque (SAE) Number of cylinders Displacement Bore Stroke Air filter Ignition Fuel filter Glow plug resistance	Kubota / D722-E4B (Stage V) Diesel Liquid, forced circulation 10.2 kW 43.5 Nm 3 719 cm³ 67.0 mm 68.0 mm Dual dry replaceable paper cartridge Diesel compression
Electrical	
Alternator Battery Starter	12 V — 40 A — open frame with internal regulator 12 V — 500 A cold cranking current — 90 min reserve 12 V - 1.4 kW - positive shift drive
Hydraulic System	
Pump type Total hydraulic capacity	Dual piston pump with gear pump 41.30 L/min



Piston pump capacity

Gear pump capacity

11.30 L/min
Swing lock release presssure

System relief pressure for slew circuits

Auxiliary relief

Port relief pressure for boom, bucket and dipperstick

30.00 L/min
137.00 bar
137.00 bar
180.00 bar
250.00 bar

circuits

Dipperstick port relief base and rod end 250.00 bar Main hydraulic filter bypass 3.40 bar

Control valve 9-spool parallel type, open centre

Auxiliary flow 30.00 L/min

Hydraulic Cylinders

Boom cylinderCushion upBoom cylinder bore63.5 mmBoom cylinder rod38.1 mmBoom cylinder stroke438.9 mm

Dipperstick cylinder Cushion up and down

Dipperstick cylinder bore 57.2 mm Dipperstick cylinder rod 38.1 mm Dipperstick cylinder stroke 419.9 mm Bucket cylinder No cushion Bucket cylinder bore 50.8 mm Bucket cylinder rod 31.8 mm Bucket cylinder stroke 385.1 mm Boom swing cylinder No Cushion Boom swing cylinder bore 60.3 mm Boom swing cylinder rod 31.8 mm Boom swing cylinder stroke 411.2 mm Blade cylinder No cushion Blade cylinder bore 57.3 mm Blade cylinder rod 31.8 mm Blade cylinder stroke 107.9 mm Undercarriage cylinder No cushion Undercarriage cylinder bore 44.5 mm Undercarriage cylinder rod 25.4 mm Undercarriage cylinder stroke 385.0 mm

Buckets

Width (mm)	Weight (kg)	Struck capacity (m³)	Rated capacity (m³)
150	26.3	-	0.011
230	30.4	-	0.017
300	34.5	-	0.025
400	41.7	-	0.036
450	44.8	-	0.041
500	47.7	-	0.047
600	55.2	-	0.058
800	62	-	0.051
1000	74	-	0.065



Boom swing, left Boom swing, right Slew circle Slew drive	80.0° 60.0° Single row shear-type ball bearings with internal gear Orbit motor
Drive System	
Travel motor Drive reduction	Each track is driven by a hydraulic axial piston motor Two-stage planetary gear reduction 30.36:1
Traction	
Track width Track adjusters Track type, standard Travel speed, low range Travel speed, high range Undercarriage Number of track rollers per side Gradeability Brakes	230.0 mm Grease type adjusters, rubber Half-pitch, rubber 2.7 km/h 4.2 km/h Sealed track rollers with box section track roller frame 3 30.0°
Parking brake Slew brake Travel brake Fluid Capacities	Hydraulic lock on motor Spring applied, pressure released Hydraulic lock on motor
Fuel reservoir Hydraulic reservoir Final drive case (each)	19.00 L 14.30 L 0.40 L



Fluid Specifications

Engine coolant

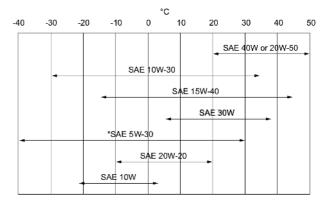
Engine oil

Hydraulic fluid

Propylene glycol/water mix (53% - 47%) with freeze protection to -37°C 5 L cap = 6904844A 25 L container = 6904844B 209

5 L can - 6904844A, 25 L container - 6904844B, 209 L drum - 6904844C, 1000 L tank - 6904844D

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.

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

Motor oil is not an acceptable alternative fluid.

Controls

Engine
Starting
Blade
Boom swing
Hydraulics

Auxiliary hydraulics Upper structure slew lock for holding and service Holding brake for upper structure slew Steering Hand lever on right hand side

Key-type starter switch and shutdown

Right hand lever

Right foot pedal

Two joysticks control boom, bucket, dipperstick and upper

structure slew

Left-hand foot pedal

Hydraulic lock on motor

Spring applied, pressure released

Direction and speed controlled by two hand levers or foot

pedals



Instrumentation

- · LCD display
 - Hour meter
 - Job clock
 - Engine RPM
 - Battery voltage
 - Service reminder
 - Service codes
 - Engine pre-heat and countdown for glow plugs (time depends on engine coolant temperature)
- Gauges
 - Fuel level
 - Engine coolant temperature
- · Indicators
 - High travel speed indicator
 - Seat belt
 - · Left console lockout
- · Warning lights
 - General warning
 - Engine malfunction
 - Hydraulic system malfunction
- Buttons
 - Lights
 - Auxiliary (1 LED Aux active, both LED's detent active)
 - Information
- · Left hand console
 - Windshield wiper/washer switch (optional)
 - Retractable undercarriage switch
 - Beacon / strobe switch (optional)
 - Overload warning device switch (optional)

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
- Engine oil and fuel filters
- · Engine oil level
- Fuel filler
- Starter
- · Sight gauges for hydraulic level
- · Sight gauge for fuel 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

- · 230 mm rubber track
- · 980 mm dozer blade with two 190 mm blade extensions
- · Battery disconnect switch
- · Control console locks



- · Counterweight
- · Cupholders
- · Double acting auxiliary hydraulics
- · Engine monitor with auto shutdown
- · Foldable and ergonomic travel pedals
- · Full fuel warning alarm
- · Grease gun holder
- Horn
- · Hydraulic and travel control lockout
- · Hydraulic joystick controls
- Hydraulically retractable undercarriage from 1360 mm to 980 mm
- · Retractable seat belt
- TOPS/ROPS/FOPS canopy ¹
- · Two speed travel
- · Upper structure four point tie down
- · Water separator
- · Work light (boom)
- · Warranty: 24 months, 2000 hours (whichever occurs first)

Options

- Demolition package (boom, arm, bucket cylinder covers & HD travel hoses guard)
- Object handling package (Valves, OWD, Lifteye)
- · Long dozer blade
- · AUX1 direct return to tank
- AUX1 on arm
- Keyless ignition
- Travel motion alarm
- · Additional halogen lights
- Beacon
- · Special Application kit
- · L/R mirrors
- · Fire extinguisher
- · Klac C and MS01 couplers

Attachments

- Auger Accessories
- Augers
- · Breakers
- · Clayspade Buckets, Klac
- · Clayspade Buckets, Pin-on
- · Clayspade Buckets, SW
- · Digging Buckets, German Profile
- Digging Buckets, Klac
- · Digging Buckets, Pin-on

- · Grading Buckets, German Type
- · Grading Buckets, Klac
- · Grading Buckets, Pin-on
- Klac
- Laser Equipment
- · Skeleton Bucket, Klac
- Skeleton Bucket, Pin-On
- · Skeleton Bucket, SW
- · Tilt Buckets, Pin-on

^{1.} Roll Over Protective Structure (ROPS) – Meets requirements of ISO 3471. Tip Over Protective Structure (TOPS) – Meets requirements of ISO 12117. Falling Object Protective Structure (FOPS) - Meets requirements of ISO 3449.



Environmental

Noise level LpA(EU Directive 2006/42/EC) 81 dB(A)
Noise level LWA(EU Directive 2000/14/EC) 93 dB(A)
Whole body vibration (ISO 2631–1) 0.14 ms⁻²
Hand-arm vibration (ISO 5349–1) 0.49 ms⁻²

Safety

Retractable seat belt, standard Operator cab, standard

Grab handles, standard Safety tread, standard

Front working lights, standard Control lockout, standard

Upper carriage slew lock, standard

Pedal lock, standard Travel motion alarm, optional Special applications kit, optional Operator's handbook, standard Should always be worn when operating the excavator A four-post canopy or optional closed cab. Roll Over Protective Structure (ROPS) – Meets requirements of ISO 3471. Tip Over Protective Structure (TOPS) – Meets requirements of ISO 12117. Falling Object Protective Structure (FOPS) - Meets requirements of ISO 3449. Should always be used when entering/exiting excavator. Slip resistant tread on canopy threshold to be used when entering/exiting excavator.

Use for indoor and low light operation.

Operator console locks out work group and travel functions when in the upright position

when in the upright position.

An automatic disc brake locks the upper structure to the

undercarriage for transport.

Prevents activation of the boom swing function.

For use when required

Restricts objects and material from entering cab openings.