

Slew System

Boom swing, left	80.00
Slew circle	Single row shear-type ball bearings with internal gear
Boom swing, right	60.00
Slew rate	9.70RPM
Slew drive	Orbit motor, direct drive

Hydraulic Cylinders

Undercarriage cylinder stroke	390.00 mmMM
Dipperstick cylinder rod	38.00 mmMM
Boom swing cylinder stroke	411.00 mmMM
Blade cylinder	No cushion
Dipperstick cylinder bore	60.00 mmMM
Undercarriage cylinder bore	45.00 mmMM
Undercarriage cylinder rod	25.00 mmMM
Bucket cylinder	No cushion
Dipperstick cylinder stroke	425.00 mmMM
Boom cylinder rod	40.00 mmMM
Boom swing cylinder bore	60.00 mmMM
Boom swing cylinder rod	32.00 mmMM
Blade cylinder stroke	108.00 mmMM
Dipperstick cylinder	Cushion
Blade cylinder bore	70.00 mmMM
Bucket cylinder bore	60.00 mmMM
Blade cylinder rod	40.00 mmMM
Boom cylinder	Cushion up
Boom cylinder stroke	445.00MM
Boom cylinder bore	75.00 mmMM
Bucket cylinder rod	40.00 mmMM
Bucket cylinder stroke	316.00 mmMM
Boom swing cylinder	Cushion
Undercarriage cylinder	No cushion

Performance

Ground pressure with rubber tracks	29.40KPA
Drawbar pull	23778.00
Digging force, dipperstick (ISO 6015)	12630.00
Digging force, bucket (ISO 6015)	18330.00
Digging force, long dipperstick (ISO 6015)	11510.00

Cycle Times

Dipperstick extend time	2.50
Boom swing right time	6.50
Boom raise time	4.60
Blade raise time	2.10
Bucket curl time	2.00
Undercarriage retract time	3.10
Bucket dump time	1.40
Dipperstick retract time	2.70
Undercarriage expand time	2.80
Boom lower time	4.50
Boom swing left time	5.20
Blade lower time	1.90

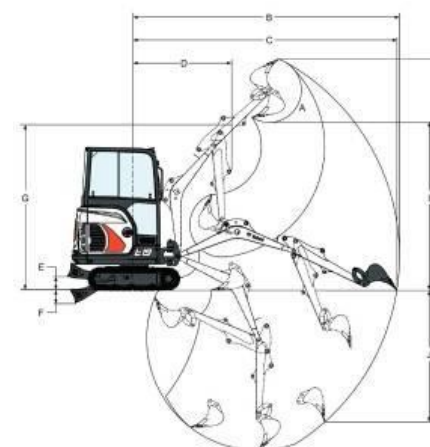
Hydraulic System

Pump type	Single outlet variable displacement, load sensing torque pump
Control valve	9 spool, parallel series type, close center ; 10 spool, parallel series type, close center
Pump capacity	44 l/minLPM
Auxiliary relief	180
Auxiliary (AUX2) flow	12
System Relief	230
Main hydraulic filter bypass	3.4
Auxiliary (AUX1) flow	30

Drive System

Drive reduction	31.65 : 1 - two stage planetary
Travel motor	Each track is driven by a hydraulic axial piston

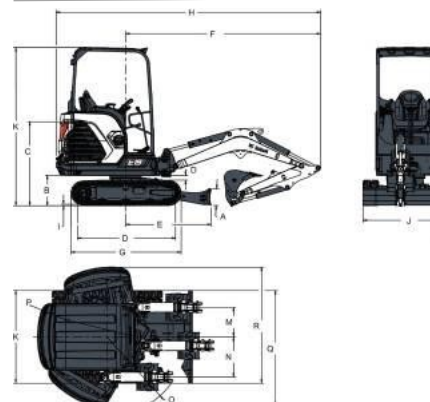
Working range



Maximum blade height with long blade

(*) 1850.00 MM	(E) 220.00 mm MM
(*) 1090.00 MM	(F) 204.00 mm MM
(*) 1270.00 MM	(G) 2590.00 mm MM
(A) 210.00	(H) 3602.00 mm MM
(B) 4111.00 MM	(H*) 3730.00 mm MM
(B*) 4283.00 MM	(I*) 2716.00 MM
(C) 4062.00 MM	(J) 1897.00 mm MM
(C*) 4237.00 MM	(J*) 2076.00 mm MM
(D) 1538.00 MM	(K) 2364.00 MM
(D*) 1558.00 MM	(K*) 2544.00 MM

Dimensions



Maximum blade height with long blade

(A) 235.00 mm MM	(J*) 1360.00 MM
(B) 443.00 mm MM	(K) 2321.00 MM
(C) 1364.00 mm MM	(L) 230.00 MM
(D) 1258.00 MM	(M) 433.00 MM
(E) 1252 mm MM	(N) 589.00 MM
(F) 2857.00 MM	(O) 1164.00 mm MM
(F*) 2847.00 mm MM	(P) 1034.00 mm MM
(G) 1620.00 mm MM	(Q) 1816 mm MM
(H) 3876.00 mm MM	(R) 1661 mm MM
(I) 22.00 MM	(I) 2589.00 mm MM
(J) 980.00 MM	

Gradeability	motor 30.00
Traction	
Undercarriage	Sealed track rollers with box section track roller frame
Track type, standard	Half-pitch, rubber
Travel speed, high range	4.00
Number of track rollers per side	3
Travel speed, low range	2.00
Track adjusters	Grease type with shock absorbing recoil springs
Brakes	
Parking brake	Hydraulic lock on motor
Slew brake	Spring applied, pressure released
Travel brake	Hydraulic lock on motor
Fluid Capacities	
Final drive case (each)	0.40L
Engine oil with filter	2.5 IL
Cooling system with heater	4.15 IL
Fuel tank	21.2 IL
System capacity	19 IL
Cooling system without heater	3.5 IL
Hydraulic / Hydrostatic reservoir	14.30L
Fluid Specifications	
Engine coolant	Propylene glycol/water mix (53% - 47%) with freeze protection to -37°C
5 L can - 6904844A, 2	5 L container - 6904844B, 209 L drum - 6904844C, 1000 L tank - 6904844D
Hydraulic fluid	Motor oil is not an acceptable alternative fluid
Bobcat Superior SH, 5 L can - 6904842A, 25 L	·
Bobcat Bio Hydraulic, 5 L can	container - 6904842B, 209 L drum - 6904842C, 1000 L tank - 6904842D
Engine oil	- 6904843A, 25 L container - 6904843B, 209 L drum - 6904843C, 1000 L tank - 6904843D
* Ca	Oil must meet API Service Classification of CD, CF, CF4, CI4, or better. Recommended SAE viscosity number for anticipated temperature range.
	· n be used only when available with appropriate diesel rating. For synthetic oil use the recommendation from the oil manufacturer.
Controls	
Engine	Hand lever on right hand side
Boom swing	Right hand foot pedal or electric switch in left joystick (optional)
Holding brake for upper structure slew	Spring applied, pressure released
Hydraulics	Two joysticks control boom, bucket, dipperstick and upper structure slew
Auxiliary hydraulics	Left hand foot pedal or electric switch in right joystick with 3 aux flow modes (optional)
Blade	Right hand lever
Starting	Key-type starter switch and shutdown
Upper structure slew lock for holding and service	Hydraulic lock on motor
Steering	Direction and speed controlled by two hand levers or foot pedals
Environmental	
Noise level LWA(EU Directive 2000/14/EC)	93.00
Noise level LpA(EU Directive 2006/42/EC)	77.00
Hand-arm vibration (ISO 5349-1)	0.52
Whole body vibration (ISO 2631-1)	0.24
Safety	
Upper carriage slew lock, standard locks the upper	An automatic disk brake
An	structure to the undercarriage for transport.
locks the upper structure to	automatic disk brake
	the undercarriage for transport.
Electrical	
Battery	12 V negative ground - 500 A cold cranking at -18 °C - 90 min reserve capacity

Alternator	12 V - 40 A open frame with internal regulator
Starter	12 V positive shift drive 1.4 kW (1.88 hp)
Engine	
Cooling	Liquid, forced circulation
Number of Cylinders	3
Fuel	Ultra low sulfur diesel
Maximum torque @ 1600 rpm (SAE J1995)	49.80
Stroke	74.00 mmMM
Lubrication	Forced lubrication/cartridge type
Displacement	0.854
Bore	70.00 mmMM
Ignition	Diesel compression
Crankcase ventilation	Closed breathing
Air filter	Dual dry replaceable paper cartridge
Compliance	Stage V (V)
Maximum power @ 2200 rpm (ISO 14396)	10.10KW
Make / Model	YANMAR / 3TNV70-SBC1

Weights

Additional weight for suspension seat	14 kgKG
Operating Weight	1905 kgKG
Shipping Weight	1788 kgKG
Additional weight for heavy counterweight	84
Weight reduction with canopy	-99.00KG
Additional weight for long dipperstick	4.00KG
Weight reduction with standard seat	-8 kgKG

Options

• Auto idle • AUX1 direct return to tank • AUX2 hydraulics • Bucket valves (AUX3) kit	• Additional LED work lights • AUX1/AUX2 on arm • Beacon • Demolition package (boom, arm, bucket cylinder covers & HD travel hoses guard)
• Grease gun w/ holder • Hydr. coupler lines (AUX5) • L/R mirrors • Object handling package (Valves, OWD, Lifteye) • Suspension seat • Travel motion alarm	• Heavy counterweight • Keyless ignition • Long dipperstick w/ clamp eyes • Special application kit • TOPS/ROPS cab w/ heater

Instrumentation

LCD display • Job clock • Battery voltage • Service codes	• Hour meter • Engine RPM • Service reminder • Engine pre-heat and countdown for glow plugs (time depends on engine coolant temperature)
• Auxiliary mode indicator (H, 3, 2, 1, Off) (optional) • Fuel level Indicators • Seat belt Warning lights • Engine malfunction Buttons • Auxiliary (1 LED - Aux active, both LED's - detent active) Left hand console • Retractable undercarriage switch • Overload warning device switch (optional)	Gauges • Engine coolant temperature • High travel speed indicator • Left console lockout • General warning • Hydraulic system malfunction Lights • Information • Windshield wiper/washer switch (optional) • Beacon / strobe 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: • Battery
• Air cleaner with indicator • Cooling system (hydraulic oil coolers) for cleaning • Engine oil level • Starter • Sight gauge for fuel level	• Engine oil and fuel filters • Fuel filler • 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.

Attachments

• Auger Accessories • Breakers	• Augers • Clayspade Buckets, Klac
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- Clayspade Buckets, Pin-on
 - Digging Buckets, Klac
 - Grading Buckets, German Type
 - Hydraulic Clamps
 - Laser Equipment
 - Skeleton Bucket, Pin-On
 - Tilt Buckets, Klac
 - Tilt Buckets, SW
- Digging Buckets, German Profile
 - Digging Buckets, Pin-on
 - Grading Buckets, Klac
 - Klac
 - Skeleton Bucket, Klac
 - Skeleton Bucket, SW
 - Tilt Buckets, Pin-on

Standard Features

- 230 mm rubber track
 - Adjustable double acting auxiliary hydraulic (AUX1) with Quick Couplers
 - Blade float feature
 - Control console locks
 - Dual Direction Detent
 - Exposed counterweight with 4 mm steel tailgate
 - Full fuel warning alarm
 - Hydraulic and travel control lockout
 - Hydraulically retractable undercarriage from 1360 mm to 980 mm
 - Long dozer blade
 - Proportional fingertip auxiliary and boom swing offset hydraulic control
 - Storage compartment
 - 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.
 - Upper structure four point tie down
 - Warranty: 24 months, 2000 hours (whichever occurs first)
- 980 mm dozer blade with two 190 mm blade extensions
 - Battery disconnect switch
 - Clamp ready
 - Cupholders
 - Engine monitor with auto shutdown
 - Foldable and ergonomic travel pedals
 - Horn
 - Hydraulic joystick controls
 - LED Work light
 - Machine IQ (telematic)
 - Retractable seat belt
 - TOPS/ROPS/FOPS canopy
 - Two-speed travel with Auto shift
 - Water separator