

### Slew System

Boom swing, right	55.00
Slew circle	Single row shear type ball bearings with internal gear
Boom swing, left	70.00
Slew drive	Gear pump connected to a planetary drive
Slew rate	9.30RPM

### Hydraulic Cylinders

Bucket cylinder stroke	445.00MM
Dipperstick cylinder bore	76.20MM
Dipperstick cylinder stroke	492.00MM
Boom cylinder	Cushion up
Bucket cylinder	No cushion
Boom cylinder bore	76.20MM
Boom swing cylinder rod	38.10MM
Boom swing cylinder	Cushion left and right
Blade cylinder stroke	170.00MM
Boom cylinder rod	44.50MM
Boom swing cylinder bore	69.80MM
Blade cylinder rod	44.50MM
Dipperstick cylinder rod	44.50MM
Blade cylinder	No cushion
Blade cylinder bore	82.60MM
Boom cylinder stroke	546.00MM
Bucket cylinder rod	38.10MM
Dipperstick cylinder	Cushion up & cushion retract
Bucket cylinder bore	60.50MM
Boom swing cylinder stroke	429.00MM

### Performance

Digging force, bucket (ISO 6015)	26520.00
Ground pressure with steel tracks	27.1 kPaKPA
Ground pressure with rubber tracks	25.9 kPaKPA
Digging force, dipperstick (ISO 6015)	16030.00
Rated capacity	63 kgKG
Drawbar pull	28949.00

### Cycle Times

Boom raise time	4.10
Bucket dump time	1.60
Blade raise time	2.40
Boom swing right time	5.60
Boom swing left time	4.10
Dipperstick retract time	2.70
Blade lower time	3.10
Boom lower time	5.10
Bucket curl time	2.40
Dipperstick extend time	2.20

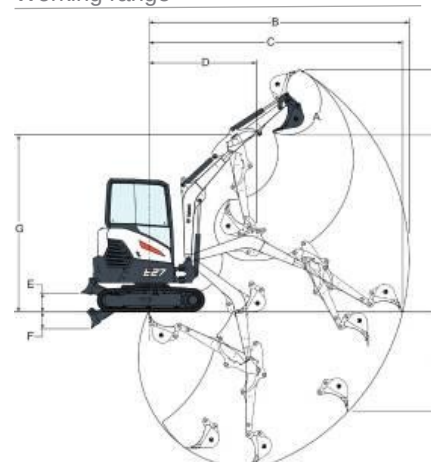
### Hydraulic System

Auxiliary (AUX2) relief	179.00BAR
Auxiliary (AUX4) relief	180
Control valve	10-spool, (OPTIONALLY 11) parallel series type, open center
Main hydraulic filter bypass	3.4 barBAR
Hydraulic filter	Full-flow replaceable — 3 µm synthetic media element
Auxiliary (AUX1) relief	180.00BAR
Pump type	Dual outlet variable displacement piston pump with gear pumps
Auxiliary flow	53.75
Auxiliary (AUX3) relief	240
Pump capacity	67.5 l/minLPM
Fluid lines	SAE standard tubelines, hoses, and fittings

### Drive System

Drive reduction	41.9 : 1 - two stage planetary
Gradeability	30.00
Travel motor	Each track is driven by a hydraulic axial piston

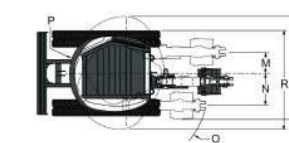
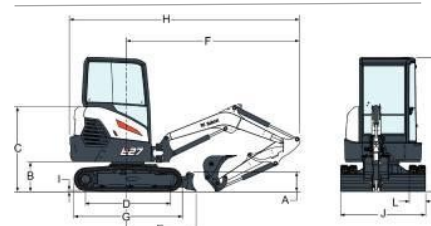
### Working range



#### Maximum Dump Height

(*) 2100.00 MM	(E*) 385.00 MM
(*) 1400.00 MM	(F) 302.00 MM
(A) 185.00	(F*) 420.00 MM
(B) 4721.00 MM	(G) 3240.00 MM
(C) 4604.00 MM	(H) 4429.00 MM
(D) 1924.00 MM	(J) 1825.00 MM
(E) 346.00 MM	(K) 2847.00 MM

### Dimensions



#### Maximum Dump Height

(Q) 1868 mm MM	(R) 1791 mm MM
(D) 1543.00 MM	(B) 539.00 MM
(H) 4190 mm MM	(I) 21.00 MM
(E) 1245.00 MM	(F) 3135.00 MM
(C) 1540.00 MM	(G) 1965.00 MM
(O) 1575.00 MM	(L) 300.00 MM
(P) 1055 mm MM	(K) 2438.00 MM
(J) 1550.00 MM	(N) 576.00 MM
(A) 319.00 MM	(I) 3243.00 MM
(M) 393.00 MM	

## Traction

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Track type, optional	Steel, triple grouser shoe
Undercarriage	Crawler X-frame design with reinforced box section track roller frame and sealed track rollers
Travel speed, low range	3.00
Number of track rollers per side	3
Track adjusters	Grease type track adjusters with shock absorbing recoil springs
Travel speed, high range	5.10
Track type, standard	Half-pitch, rubber (directional type)

## Brakes

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Parking brake	Hydraulic lock on motor
Slew brake	Spring applied - pressure released
Travel brake	Hydraulic lock on motor

## Fluid Capacities

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Final drive case (each)	0.60L
Hydraulic / Hydrostatic reservoir	10.20L
Cooling system with heater	4.5 IL
Cooling system without heater	4.1 IL
Engine oil with filter	4.0 IL
Fuel tank	34.4 IL
System capacity	24 IL

## Fluid Specifications

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Hydraulic fluid	Bobcat Bio Hydraulic, 5 L can - 6904843A, 25 L container - 6904843B, 209 L drum - 6904843C, 1000 L tank - 6904843D
Bobcat Superior SH, 5 L can -	6904842A, 25 L container - 6904842B, 209 L drum - 6904842C, 1000 L tank - 6904842D
Motor oil is no	t an acceptable alternative fluid.
Engine coolant	5 L can - 6904844A, 25 L container - 6904844B, 209 L drum - 6904844C, 1000 L tank - 6904844D  Propylene glycol/water mix (53% - 47%) with freeze protection to -37°C
Engine oil	Oil must meet API Service Classification of CD, CE, CF4, CG4, or better. Recommended SAE viscosity number for anticipated temperature range.
* Ca	n be used only when available with appropriate diesel rating. For synthetic oil use the recommendation from the oil manufacturer.

## Controls

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Steering	Direction and speed controlled by two pilot-operated hand levers or two foot pedals
Hydraulics	Two joysticks control boom, bucket, dipperstick and upper structure slew
Blade	Right hand lever
Upper structure slew lock for holding and service	Hydraulic lock on motor
Boom swing	Electric switch in left joystick
Starting	Key type starter and shutdown switch
Auxiliary hydraulics	Electric switch in right joystick (left joystick for second auxiliary)
Engine	Hand lever on right hand side

## Environmental

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Hand-arm vibration (ISO 5349-1)	0.44
Whole body vibration (ISO 2631-1)	0.13
Noise level LwA (EU Directive 2000/14/EC)	93.00
Noise level LpA (EU Directive 2006/42/EC)	78.00

## Safety

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Grab handles, standard	Should always be used when entering/exiting excavator.
Pedal lock, standard	Prevents activation of the boom swing function.
Operator cab, standard	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.
Control lockout, standard	Operator console locks out work group and travel functions when in the upright position.

Upper carriage slew lock, standard	An automatic disk brake locks the upper structure to the undercarriage for transport.
Retractable seat belt, standard	Should always be worn when operating the excavator
Special applications kit, optional	Restricts objects and material from entering cab openings.
Operator's handbook, standard	Weather-resistant operator handbook attached to the inside of the cab, providing operational instructions and warnings decals with pictorials and international symbols.
Travel motion alarm, optional	For use when required
Safety tread, standard	Slip resistant tread on canopy threshold to be used when entering/exiting excavator.
Front working lights, standard	Use for indoor and low light operation.

## Electrical

Alternator	12 V - 65 A open frame with internal regulator
Starter	12 V positive shift drive 2 kW (2.68 hp)
Battery	12 V negative ground - 500 A cold cranking at -18 °C - 90 min reserve capacity

## Engine

Number of cylinders	3
Bore	78.00MM
Compliance	Stage V (V)
Air filter	DUAL VRY REPLACEMENT PAPER ELEMENTS
Displacement	1261.00
Rated torque speed	1600
Cooling	Liquid, forced circulation
Maximum power at rated speed (ISO 14396)	18.2 kWkW
Maximum torque at rated speed (SAE J1995)	81.3 nmNEWTON-M
Fuel	Diesel fuel no. 2-D
Make / Model	KUBOTA / D1305-E4B-BCZ-1A
Stroke	88.00MM
Rated power speed	2400
Ignition	Diesel-compression

## Weights

Operating weight with cab and bucket (ISO 6016)	2683.00KG
Additional weight for cab with suspension seat vinyl	8 kgKG
Additional weight for heavy counterweight	147.00KG
Additional weight for steel tracks	130.00KG
Weight reduction with canopy	-118.00KG
Transport mass (no attachment)	2549.00KG
Additional weight for cab with suspension seat cloth	8 kgKG

## Options

• Comfort package cab (Cloth susp. seat & Dlx displ.)	• A-SAC package (Tilt coupler lines, Dlx displ.)
• Object handling package (Valves, OWD, Lifteye)	• TOPS/ROPS/FOPS cab
• Heavy counterweight	• Steel tracks
• AUX1 direct return to tank	• AUX2 hydraulics
• AUX1/AUX2/Drain on arm	• Bucket valves (AUX3) kit
• Hydr. coupler lines (AUX5)	• Case drain line
• Auto idle	• Keyless ignition
• Travel motion alarm	• AM/FM MP3 radio
• Additional halogen lights	• LED lights set
• Beacon	• Special application kit
• L/R mirrors	• Clamp w/ AUX1 valve
• Klac D and MS03 coupler	• Bobcat hydr. pin grabber
• Grease gun w/ holder	

## Instrumentation

• Charging system indicator	• Engine oil pressure indicator
• Engine temperature gauge	• Fuel gauge
• Hour meter	• Hour meter, resettable
• Hydraulic system indicator	• Tachometer
• Engine throttle	• Auto idle switch
• Windshield wiper/washer switch	• High travel speed indicator
• Work light switch	• Work light indicator
• Battery kill switch	

## Serviceability

Fuel filler is external and has key lock for vandal proofing

Access is available to the following through the

- Air cleaner with indicator
- Cooling system (engine oil and hydraulic oil coolers) for cleaning
- Engine oil and fuel filters
- Fuel filler
- Starter

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

Easy access to all grease points.

## Attachments

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- Auger Accessories
- Breaker Accessories
- Clayspade Buckets, Klac
- Clayspade Buckets, SW
- Digging Buckets, Klac
- Grading Buckets, German Type
- Hydraulic Clamps
- Laser Equipment
- Skeleton Bucket, Pin-On
- Tilt Buckets, Klac
- Tilt Buckets, SW

rear tailgate or side access hood:

- Battery
- Control valve
- Engine oil level
- Hydraulic valve bank
- Sight gauges for hydraulic level

Tailgate and access cover have locks for vandal-proofing.

## Standard Features

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- 1550 mm dozer blade
- Adjustable double acting auxiliary hydraulic (AUX1) with Quick Couplers
- Blade float feature
- Control console locks
- Dual Direction Detent
- Foldable and ergonomic travel pedals
- Horn
- Proportional fingertip auxiliary and boom swing offset hydraulic control
- Suspension seat with high back
- TOPS/ROPS/FOPS canopy \*

- Two-speed travel with Auto shift
- Water separator
- Warranty: 24 months, 2000 hours (whichever occurs first)

- 300 mm rubber tracks
- Battery disconnect switch
- Clamp ready
- Cupholder
- Engine/hydraulic monitor with shutdown
- Full fuel warning alarm
- Object handling package (Valves, OWD, Liftye)

- Retractable seat belt
- 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
- Work light (boom)

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Specifications are subject to change without notice - Pictures of Bobcat units may show other than standard equipment