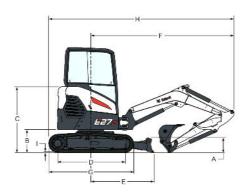
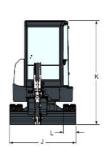
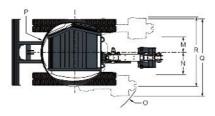


#### **Dimensions**

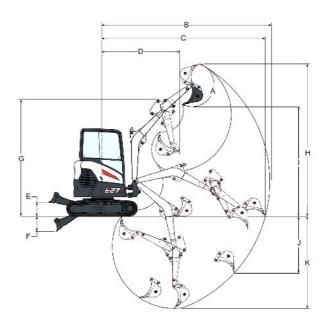








### **Working Range**



<ul> <li>(A) Bucket pivot angle</li> <li>(B) Maximum reach of working equipment</li> <li>(B*) Maximum reach of working equipment, long dipperstick</li> <li>(C) Maximum reach at ground level</li> <li>(C*) Maximum reach at ground level, long dipperstick</li> <li>(D) Maximum working equipment radius with boom at maximum height and dipperstick fully retracted</li> </ul>	185.0° 4644.0 mm 4931.0 mm 4518.0 mm 4814.0 mm 2131.0 mm
(D*) Maximum working equipment radius with boom at maximum height and dipperstick fully retracted, long dipperstick	2135.0 mm
(E) Maximum blade height (F) Maximum blade depth (G) Maximum height of working equipment with dipperstick retracted (G*) Maximum height of working equipment with dipperstick retracted, long dipperstick (H) Maximum bucket tooth height (H*) Maximum bucket tooth height, long dipperstick (I) Maximum dump height (I*) Maximum dump height, long dipperstick (J) Maximum depth of vertical wall which can be excavated (J*) Maximum depth of vertical wall which can be excavated, long dipperstick (K) Maximum digging depth (K*) Maximum digging depth, long dipperstick (Values with a "*" are for the long dipperstick)	385.0 mm 420.0 mm 3247.0 mm 3239.0 mm 4230.0 mm 4430.0 mm 3043.0 mm 3243.0 mm 1567.0 mm 1818.0 mm 2547.0 mm



#### Lift Capacity - Cab, standard arm and standard Counterweight

#### RATED LIFT CAPACITY OVER BLADE, BLADE DOWN

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3210	585*	-	538*	-
2000	3810	601*	-	605*	-
1000	4030	636*	-	833*	642*
Ground	3880	684*	1722*	957*	-
-1000	3330	746*	1551*	916*	-
	<del>-</del>		1		

<sup>\*</sup> Rated hydraulic lift capacity

#### RATED LIFT CAPACITY OVER BLADE, BLADE UP

Lift point height [H]	Maximum radius [R]	Lift at max. radius	Lift at 2000 mm	Lift at 3000 mm	Lift at 4000 mm
(mm)	(mm)	(kg)	radius	radius	radius
3000	3210	466	-	538*	-
2000	3810	366	-	605*	-
1000	4030	333	-	507	336
Ground	3880	354	912	515	-
-1000	3330	456	1045	538	-

<sup>\*</sup> Rated hydraulic lift capacity

#### RATED LIFT CAPACITY OVER SIDE, BLADE UP

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3210	403	-	442	-
2000	3810	308	-	453	-
1000	4030	283	-	425	286
Ground	3880	298	723	411	-
-1000	3330	377	782	440	-
			-		

<sup>\*</sup> Rated hydraulic lift capacity

#### Lift Capacity - Cab, long arm and standard Counterweight

#### RATED LIFT CAPACITY OVER BLADE, BLADE DOWN

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3630	497*	-	-	-
2000	4070	526*	-	492*	510*
1000	4270	565*	-	722*	576*
Ground	4150	614*	1614*	918*	648*
-1000	3600	665*	1559*	937*	-
-2000	2550	697*	1070*	-	-

<sup>\*</sup> Rated hydraulic lift capacity



#### RATED LIFT CAPACITY OVER BLADE, BLADE UP

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3630	396	-	-	-
2000	4070	323	-	492*	335
1000	4270	301	-	511	334
Ground	4150	313	881	494	331
-1000	3600	384	1002	513	-
-2000	2550	697*	1070*	-	-

<sup>\*</sup> Rated hydraulic lift capacity

#### RATED LIFT CAPACITY OVER SIDE, BLADE UP

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3630	341	-	-	-
2000	4070	275	-	492*	289
1000	4270	252	-	427	277
Ground	4150	261	700	406	275
-1000	3600	315	753	404	-
-2000	2550	583	903	-	-

<sup>\*</sup> Rated hydraulic lift capacity

#### Lift Capacity - Cab, long arm and heavy Counterweight

#### RATED LIFT CAPACITY OVER BLADE, BLADE DOWN

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3630	497*	-	-	-
2000	4070	526*	-	492*	510*
1000	4270	565*	-	722*	576*
Ground	4150	614*	1614*	918*	648*
-1000	3600	665*	1559*	937*	-
-2000	2550	697*	1070*	-	-

<sup>\*</sup> Rated hydraulic lift capacity

#### RATED LIFT CAPACITY OVER BLADE, BLADE UP

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3630	497*	-	-	-
2000	4070	361	-	492*	373
1000	4270	336	-	566	372
Ground	4150	350	982	549	370
-1000	3600	428	1102	568	-
-2000	2550	697*	1070*	-	-

<sup>\*</sup> Rated hydraulic lift capacity

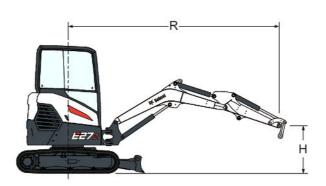


#### RATED LIFT CAPACITY OVER SIDE, BLADE UP

Lift point height [H]	Maximum radius [R]		Lift at 2000 mm	Lift at 3000 mm	Lift at 4000 mm
(mm)	(mm)	(kg)	radius	radius	radius
3000	3630	378	-	-	-
2000	4070	307	-	492*	322
1000	4270	282	-	474	310
Ground	4150	292	780	453	308
-1000	3600	352	833	451	-
-2000	2550	697*	1070*	-	-

<sup>\*</sup> Rated hydraulic lift capacity

### Lift Capacity - Canopy, standard arm and standard Counterweight



#### RATED LIFT CAPACITY OVER BLADE, BLADE DOWN

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3210	585*	-	538*	-
2000	3810	601*	-	605*	-
1000	4030	636*	-	833*	642*
Ground	3880	684*	1722*	957*	-
-1000	3330	746*	1551*	916*	-

<sup>\*</sup> Rated hydraulic lift capacity



#### RATED LIFT CAPACITY OVER BLADE, BLADE UP

Lift point height [H]	Maximum radius [R]	Lift at max. radius	Lift at 2000 mm	Lift at 3000 mm	Lift at 4000 mm
(mm)	(mm)	(kg)	radius	radius	radius
3000	3210	445	-	538*	-
2000	3810	349	-	510	-
1000	4030	317	-	484	320
Ground	3880	337	869	491	-
-1000	3330	436	1002	514	-

<sup>\*</sup> Rated hydraulic lift capacity

#### RATED LIFT CAPACITY OVER SIDE, BLADE UP

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3210	388	-	425	-
2000	3810	296	-	436	-
1000	4030	271	-	408	274
Ground	3880	285	693	393	-
-1000	3330	362	752	423	-

<sup>\*</sup> Rated hydraulic lift capacity

### Lift Capacity - Canopy, long arm and standard Counterweight

#### RATED LIFT CAPACITY OVER BLADE, BLADE DOWN

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3630	497*	-	-	-
2000	4070	526*	-	492*	510*
1000	4270	565*	-	722*	576*
Ground	4150	614*	1614*	918*	648*
-1000	3600	665*	1559*	937*	-
-2000	2550	697*	1070*	-	-

<sup>\*</sup> Rated hydraulic lift capacity

#### RATED LIFT CAPACITY OVER BLADE, BLADE UP

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3630	387	-	-	-
2000	4070	307	-	492*	319
1000	4270	286	-	487	318
Ground	4150	298	838	470	315
-1000	3600	366	959	489	-
-2000	2550	697*	1070*	-	-

<sup>\*</sup> Rated hydraulic lift capacity



#### RATED LIFT CAPACITY OVER SIDE, BLADE UP

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3630	328	-	-	-
2000	4070	263	-	492*	277
1000	4270	240	-	410	265
Ground	4150	249	670	389	263
-1000	3600	301	723	387	-
-2000	2550	562	873	-	-

<sup>\*</sup> Rated hydraulic lift capacity

### Lift Capacity - Canopy, long arm and heavy Counterweight

#### RATED LIFT CAPACITY OVER BLADE, BLADE DOWN

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3630	497*	-	-	-
2000	4070	526*	-	492*	510*
1000	4270	565*	-	722*	576*
Ground	4150	614*	1614*	918*	648*
-1000	3600	665*	1559*	937*	-
-2000	2550	697*	1070*	-	-

<sup>\*</sup> Rated hydraulic lift capacity

#### RATED LIFT CAPACITY OVER BLADE, BLADE UP

Lift point height [H] (mm)	Maximum radius [R] (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
3000	3630	421	-	-	-
2000	4070	344	-	492*	357
1000	4270	321	-	543	356
Ground	4150	334	939	526	353*
-1000	3600	409	1059	545	-
-2000	2550	697*	1070*	-	-

<sup>\*</sup> Rated hydraulic lift capacity

#### RATED LIFT CAPACITY OVER SIDE, BLADE UP

Lift point height [H]	Maximum radius [R]	Lift at max. radius	Lift at 2000 mm	Lift at 3000 mm	Lift at 4000 mm
(mm)	(mm)	(kg)	radius	radius	radius
3000	3630	346	-	-	-
2000	4070	295	-	492*	310
1000	4270	271	-	457	298
Ground	4150	280	750	435	296
-1000	3600	338	804	433	-
-2000	2550	697*	1070*	-	-

<sup>\*</sup> Rated hydraulic lift capacity



Performance	
Digging force, dipperstick (ISO 6015) Digging force, long dipperstick (ISO 6015) Digging force, bucket (ISO 6015) Drawbar pull Ground pressure with rubber tracks Ground pressure with steel tracks  Cycle Times	16200 N 13470 N 23720 N 29023 N 25.00 kPa 26.20 kPa
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	3.8 s 4.4 s 2.6 s 2.0 s 3.1 s 2.3 s 4.1 s 5.6 s 2.4 s 3.1 s 9.3 RPM
Weights	
Operating weight with cab and bucket (ISO 6016) Transport mass (no attachment) Weight reduction with canopy Additional weight for steel tracks Additional weight for long dipperstick Additional weight for heavy counterweight:  Engine	2705 kg 2571 kg -118 kg 130 kg 10 kg 123 kg
Make / model Fuel Cooling Maximum power @ 2400 rpm (ISO 14396) Maximum governed speed High idle speed Low idle speed Maximum torque (SAE) Number of cylinders Displacement Bore Stroke Air filter	Kubota / D1105-E4B (Stage V) Diesel Liquid, forced circulation 15.4 kW 2400.0 RPM 2550.0 RPM 1150.0 RPM 71.2 Nm 3 1123 cm³ 78.0 mm 78.4 mm Dry, dual element, replaceable paper cartridge with safety

Ignition

element and restriction indicator

Diesel-compression



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Alternator 12 VOLTS 65 AMP - WITH INTERNAL REGULATOR

Battery 12 VOLT NEGATIVE GROUND - COLD CRANKING CURRENT 500 AMPS AT -18°C (0°F) - 90 MINUTES

RESERVE CAPACITY [SAE]

Starter 12 VOLT 2 kW POSITIVE SHIFT DRIVE

**Hydraulic System** 

Pump type Dual outlet variable displacement piston pump with gear

pumps

Auxiliary (AUX1) flow 50.00 L/min
Total hydraulic capacity 87.00 L/min
Piston pump capacity 30.00 L/min
Piston pump capacity 30.00 L/min
Gear pump capacity 20.00 L/min

Gear pump capacity

Gear pump capacity

6.75 L/min

Swing lock release presssure

Auxiliary (AUX2) relief

Auxiliary (AUX1) relief

Port relief pressure for boom, bucket and dipperstick

20.00 L/mir

6.75 L/min

191.00 bar

179.00 bar

180.00 bar

240.00 bar

Port relief pressure for boom, bucket and dipperstick

circuits

Control valve 10-spool (OPTIONALLY 11), parallel series type, open

cente

Hydraulic filter Full-flow replaceable — 3 μm synthetic media element

Fluid lines SAE standard tubelines, hoses, and fittings

Auxiliary (AUX2) flow 20.00 L/min

**Hydraulic Cylinders** 

Boom cylinderCushion upBoom cylinder bore69.9 mmBoom cylinder rod41.4 mmBoom cylinder stroke546.0 mm

Dipperstick cylinder Cushion up & cushion retract

Dipperstick cylinder bore 69.9 mm
Dipperstick cylinder rod 41.4 mm
Dipperstick cylinder stroke 492.0 mm
Bucket cylinder bore 57.2 mm
Bucket cylinder rod 31.8 mm
Bucket cylinder stroke 445.0 mm

Boom swing cylinder Cushion left and right

Boom swing cylinder bore69.8 mmBoom swing cylinder rod38.1 mmBoom swing cylinder stroke429.0 mmBlade cylinderNo cushionBlade cylinder bore82.6 mmBlade cylinder rod44.5 mmBlade cylinder stroke170.0 mm



## **E27z** Excavators

### Specifications

#### **Buckets**

Width	Weight (kg)	Rated capacity (L)
STD 23 cm	44.9	24
STD 30 cm	51.4	35
STD 40 cm	60.9	52
STD 45 cm	64.7	60
STD 50 cm	68.6	69
STD 60 cm	78.1	86
STD 70 cm	87.5	103
HD 30 cm	53.2	35
HD 60 cm	70.4	69
HD 70 cm	79.9	86

#### **Slew System**

Boom swing, left	70.0°
Boom swing, right	55.0°

Slew circle
Single row shear-type ball bearings with internal gear
GEAR PUMP CONNECTED TO A PLANETARY DRIVE

#### **Drive System**

Travel motor	Each track is driven by a hydraulic axial piston motor
Drive reduction	41.9:1 TWO STAGE PLANETARY

#### **Traction**

Track width	300.0 mm
Track adjusters	Grease type with shock absorbing recoil springs
Track type, standard	Half-pitch, rubber (directional type)
Track type, optional	Steel, triple grouser shoe
Travel speed, low range	2.5 km/h
Travel speed, high range	4.3 km/h
Undercarriage	CRAWLER-TRACTOR DESIGN SEALED TRACK
	ROLLERS WITH BOX-SECTION TRACK ROLLER
	FRAME GREASE TYPE TRACK ADJUSTERS WITH
	SHOCK ABSORBING RECOIL SPRINGS
Number of track rollers per side	1 top, 3 bottom
Gradeability	30.0°

#### Rrakes

Hydraulic reservoir

Final drive case (each)

DIAKES	
Parking brake Slew brake Travel brake	Spring applied, hydraulically released, multi-disk brake Spring applied, hydraulically released HYDRALIC LOCK ON MOTOR
Fluid Capacities	
Fuel reservoir	34.40 L

10.20 L

0.60 L



### **E27z**

## Excavators Specifications

#### Fluid Specifications

Engine coolant

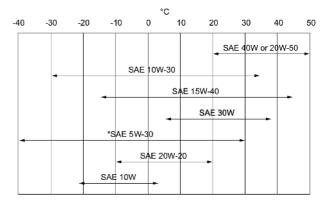
Engine oil

Hydraulic fluid

Propylene glycol/water mix (53% - 47%) with freeze protection to -37°C

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 Steering

Hand lever on right hand side

Key type starter and shutdown switch

Right hand lever

Electric switch in left joystick

Two joysticks control boom, bucket, dipperstick and upper structure slew

Electric switch in right joystick (left joystick for second auxiliary)

Hydraulic lock on motor

Direction and speed controlled by two pilot-operated hand levers or two foot pedals

#### 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 rear tailgate or side access hood:

- · Air cleaner with indicator
- · Battery
- · Cooling system (engine oil and hydraulic oil coolers) for cleaning
- · Control valve
- · Engine oil and fuel filters
- · Engine oil level
- · Fuel filler
- · Hydraulic valve bank
- Starter
- · 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.

#### **Standard Features**

- · 1550 mm dozer blade
- 300 mm rubber tracks
- · Adjustable double acting auxiliary hydraulic (AUX1) with Quick Couplers
- Battery disconnect switch
- · Blade float feature
- · Clamp ready
- · Control console locks
- Cupholder
- · Dual Direction Detent
- · Engine/hydraulic monitor with shutdown
- · Foldable and ergonomic travel pedals
- Full fuel warning alarm
- · Grease gun holder
- Horn
- Machine IQ (telematic)
- · Proportional fingertip auxiliary and boom swing offset hydraulic control
- · Retractable seat belt
- · Suspension seat with high back
- · Storage compartment
- TOPS/ROPS/FOPS canopy \* 1
- · Two-speed travel with Auto shift
- · Upper structure four-point tie down



- · Work light (boom)
- · Water separator
- · Warranty: 24 months, 2000 hours (whichever occurs first)

#### **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
- · Long dipperstick
- · 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

#### **Attachments**

•	Auger	Access	ories

- Augers
- · Breaker Accessories
- 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
- Hydraulic Clamps
- Klac
- · Laser Equipment
- · Skeleton Bucket, Klac
- Skeleton Bucket, Pin-On
- · Skeleton Bucket, SW
- Tilt Buckets, Klac
- Tilt Buckets, Pin-on
- · Tilt Buckets, SW

#### **Environmental**

Noise level LpA(EU Directive 2006/42/EC)	77 dB(A)
Noise level LWA(EU Directive 2000/14/EC)	93 dB(A)
Whole body vibration (ISO 2631–1)	0.18 ms <sup>-2</sup>
Hand-arm vibration (ISO 5349-1)	0.51 ms <sup>-2</sup>

<sup>1.</sup> 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.



#### 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.

An automatic disk 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. Weather-resistant operator handbook attached to the inside of the cab, providing operational instructions and warnings decals with pictorials and international symbols.