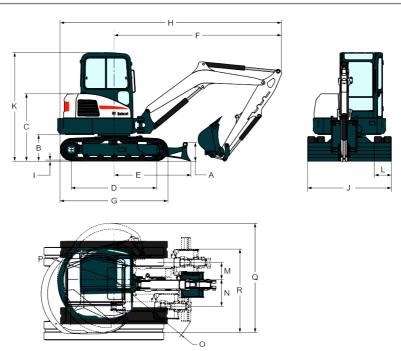


E55

Excavators
Specifications

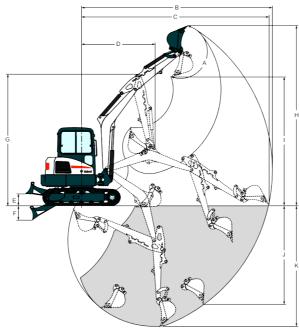
Dimensions





E55 | Excavators Specifications

Working Range



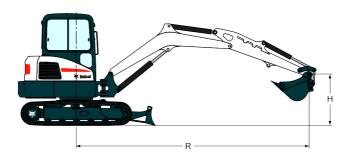
(A) Bucket pivot angle	185°
(B) Maximum reach of working equipment	6191.0 mm
(C) Maximum reach at ground level	6083.0 mm
• ,	
(D) Maximum working equipment radius with boom at maximum height and dipperstick	2389.0 mm
fully retracted	
(E) Maximum blade height	385.0 mm
(F) Maximum blade depth	465.0 mm
(G) Maximum height of working equipment with dipperstick retracted	4269.0 mm
(H) Maximum bucket tooth height	5850.0 mm
(I) Maximum dump height	4179.0 mm
(J) Maximum depth of vertical wall which can be excavated	3199.0 mm
(K) Maximum digging depth	3923.0 mm
(Values with a "*" are for the long dipperstick)	



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Excavators
Specifications

Lift Capacity (Standard dipperstick - Object handling applications excluded)



Rated lift capacity with counterweight 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	Lift at 5000 mm radius
4000	4315	908*	-	-	843*	-
3000	4947	959*	-	-	857*	-
2000	5246	1001*	-	1255*	1066*	1015*
1000	5283	1070*	-	1926*	1356*	1119*
Ground	5149	1147*	-	2309*	1571*	1210*
-1000	4738	1249*	3053*	2414*	1611*	-

^{*} Rated hydraulic lift capacity

Rated lift capacity with counterweight 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	Lift at 5000 mm radius
4000	4315	871*	-	-	807*	-
3000	4947	781	-	-	823*	-
2000	5246	701	-	1208*	1021*	761
1000	5283	671	-	1832*	1077	747
Ground	5149	691	-	1650	1045	728
-1000	4738	773	2950*	1593	1024	-

^{*} Rated hydraulic lift capacity

Rated lift capacity with counterweight over side, blade up

ratoa iiit oapao	ity with obalitors	roigiit oroi olao,	blade ap			
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	Lift at 5000 mm radius
4000	4315	959*	-	-	880*	-
3000	4947	669	-	-	902*	-
2000	5246	587	-	1289*	1090*	643
1000	5283	565	-	1405	900	625
Ground	5149	582	-	1342	873	614
-1000	4738	654	2567	1324	856	-

^{*} Rated hydraulic lift capacity



E55 | Excavators | Specifications

D (
Performance	
Digging force, dipperstick (ISO 6015) Digging force, bucket (ISO 6015)	26100 N 42000 N
Drawbar pull	52343 N
Ground pressure with rubber tracks	33.50 kPa
Ground pressure with steel tracks	34.30 kPa
Cycle Times	
Boom raise time	4.8 s
Boom lower time	4.6 s
Bucket dump time	2.6 s 1.8 s
Bucket dump time Dipperstick retract time	3.1 s
Dipperstick extend time	3.1 s
Boom swing left time	8.8 s
Boom swing right time	8.1 s
Blade raise time	3.1 s
Blade lower time	2.7 s
Slew rate	9.0 RPM
Weights	
Operating weight with ROPS canopy, rubber tracks, counterweight, 610 mm bucket (SAE J732)	5501 kg
Reduction for rubber tracks	150 kg
Standard arm length (arm pivot to bucket pivot)	1925.0 mm
Additional weight for long dipperstick	115 kg
Boom length (boom pivot to arm pivot)	2775.0 mm
Engine	
Make / model	Kubota / V2403-M-D1-TE3B-BC-4
Fuel	Diesel
Cooling Maximum power	Liquid 35.4 kW
Maximum net power at 2200 RPM (SAE J1349)	35.4 kW
Maximum governed speed	2200.0 RPM
High idle speed	2450.0 RPM
Low idle speed	1200.0 RPM
Maximum net torque at 1200 RPM (SAE J1349)	179.5 Nm
Number of cylinders	4
Displacement	2433 cm ³
Bore	87.1 mm
Stroke	102.4 mm
Air filter	Dry, dual element, replaceable paper cartridge
Ignition	Diesel-compression Intake air heater
Starting aid Glow plug resistance	ווומתב מוו וובמנבו
Glow plug resistance	



E55 Excavators Specifications

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Alternator 12 V — 90 A — open frame with internal regulator

Battery 12 V — 530 A cold cranking at -18°C — 75 min reserve

capacity at 25 A

Starter 12 V — gear reduction type — 2.0 kW

Hydraulic System

Pump type Single outlet variable displacement, load sensing torque

limited pump

Pump capacity 138.50 L/min Swing lock release presssure 210.00 bar

System relief pressure for blade circuit

Auxiliary relief

Port relief pressure for boom, bucket and dipperstick

210.00 bar

260.00 bar

210.00 bar

260.00 bar

210.00 bar

290.00 bar

election

circuits

Control valve 9-spool, closed centre, individually compensated Hydraulic filter Full-flow replaceable — 3 µm synthetic media element

Fluid lines SAE standard tubelines, hoses, and fittings

Auxiliary flow 75.70 L/min

Hydraulic Cylinders

Blade cylinder stroke

Boom cylinderCushion upBoom cylinder bore101.6 mmBoom cylinder rod57.1 mmBoom cylinder stroke697.2 mm

Dipperstick cylinder Cushion up & cushion retract

Dipperstick cylinder bore 88.9 mm Dipperstick cylinder rod 57.1 mm Dipperstick cylinder stroke 757.4 mm Bucket cylinder No cushion Bucket cylinder bore 82.5 mm Bucket cylinder rod 50.8 mm Bucket cylinder stroke 524.0 mm Boom swing cylinder No cushion Boom swing cylinder bore 95.3 mm Boom swing cylinder rod 50.8 mm Boom swing cylinder stroke 490.7 mm Blade cylinder No cushion Blade cylinder bore 101.6 mm Blade cylinder rod 50.8 mm

195.1 mm



E55

Excavators Specifications

Buckets

Width (mm)	Weight (kg)	Struck capacity (m³)	Heaped capacity (m³)
STD 300	84	-	0.063
STD 400	100	-	0.092
STD 450	107	-	0.107
STD 500	113	-	0.122
STD 600	130	-	0.155
STD 700	146	-	0.183
STD 750	152	-	0.203
STD 800	159	-	0.214
STD 900	175	-	0.246
grading 1000	147	-	0.195
grading 1300	183	-	0.258
grading 1500	207	-	0.301
tilt 1200	205	-	0.175
tilt 1400	220	-	0.206
tilt 1500	228	-	0.222
tilt 1550	353	-	0.280

Slew System

Boom swing, left	75°
Boom swing, right	50°

Slew circle Single row shear-type ball bearings with internal gear Slew drive Axial piston connected to a planetary drive

Drive System

Travel motor Each track is driven by a dual speed hydraulic axial piston motor

Drive reduction Planetary gear reduction 56.4:1

Traction

Track width 400.0 mm

Track adjusters

Grease type with shock absorbing recoil springs

Half-pitch, rubber (directional type)

Track type, standard Hall-plich, rubber (directional type)
Track type, optional Steel, triple grouser shoe

Travel speed, low range 3.1 km/h
Travel speed, high range 5.0 km/h

Undercarriage Crawler X-frame design with reinforced box section track

roller frame and sealed track rollers

Number of track rollers per side 1 top, 5 bottom

Gradeability 30°

Brakes

Slew brake Spring applied, hydraulically released Travel brake Hydraulic brake on motor



E55 Excavators
Specifications

Fluid Capacities

Cooling system	8.30 L
Engine lubrication plus oil filter	7.10 L
Fuel reservoir	79.90 L
Hydraulic reservoir	15.10 L
Hydraulic system	54.90 L
Final drive case (each)	1.00 L

Fluid Specifications

Engine coolant

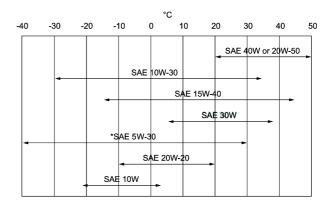
Engine oil

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



E55 | Excavators | Specifications

Controls

Engine Hand dial on the right hand side. Electronically controlled

Engine. Auto idle system to reduce fuel consumption.

Starting Key type starter switch and shutdown.

Blade Right hand lever.

Boom swing Electric switch in left joystick

Hydraulics Two joysticks control boom, bucket, dipperstick and upper

structure slew.

Auxiliary hydraulics Electric switch in right joystick (left joystick for 2nd

auxiliary)

Upper structure slew lock for holding and service Hydraulic lock on motor.

Direction and speed controlled by two hand levers or two

foot pedals.

Instrumentation

Charging system indicator

- · Engine oil pressure indicator
- · Engine coolant temperature gauge
- Fuel gauge

Steering

- · Hour meter
- · Hydraulic system indicator
- Tachometer
- Engine throttle dial
- · Auto idle switch
- · A/C control switches
- · Windshield wiper/washer switch
- · High travel speed indicator
- · Work light switch
- · Work light indicator
- · Battery kill switch

Serviceability

Fuel filter 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

Warranty: 12 months, 2000 hours (whichever occurs first)



E55 | Excavators | Specifications

- 1960 mm dozer blade
- 400 mm rubber track
- · Auto idle
- · Auto shift travel
- · Auxiliary hydraulics with Quick Couplers
- · Blade float feature
- · Cab light
- · Clamp ready
- · Control console locks
- Cupholder
- · Engine/hydraulic monitor with shutdown

Options

- Rubber tracks
- Second auxiliary hydraulic line (Rotation piping)
- Third auxiliary hydraulic line (Clamshell Piping)
- · Long dipperstick with extra counterweight

Attachments

- 3 Tined Grapples
- · Augers
- · Breakers
- · Clayspade Buckets, Klac
- · Clayspade Buckets, Lehnhoff
- · Clayspade Buckets, Pin-on
- · Digging Buckets, Klac
- Digging Buckets, Lehnhoff
- Digging Buckets, Pin-on
- Grading Buckets, Pin-on
- Hydraulic Clamps
- Klac™ reversible adaptor
- · Laser Equipment

- Packer Wheels
- Plate Compactors
- Rippers
- Rotary Grinders
- · Skeleton Bucket, Klac
- · Skeleton Bucket, Lehnhoff
- Skeleton Bucket, Pin-On
- Tilt Buckets, Klac
- · Tilt Buckets, Lehnhoff
- · Tilt Buckets, Pin-on
- · Tilt Rotator
- Trenchers
- · X-Change couplers

Environmental

Noise level LpA(EU Directive 2000/14/EC) Noise level LWA(EU Directive 2000/14/EC) 77 dB(A) 97 dB(A)



E55 | Excavators Specifications

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 Four post cabin shall meet Rollover Protective Structure (ROPS) in accordance with ISO 3471 and Tip Over Protective Structure (TOPS) in accordance with ISO 12117.

Should always 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 disc brake locks the upper structure to the undercarriage for transport.

Prevents activation of the boom swing function.

Weather-resistant operator handbook attached to the inside of the cabin, providing operational instructions and warning decals with pictorials and international symbols.