



E45 - E50 - E55 | Compact Excavators



Reliability is a given

■ Less stress in tight space with Zero Tail Swing

Enjoy true peace of mind in narrow and confined spaces with our Zero Tail Swing and front corners which stay in the track-width when you slew the house ①. It lets you focus on your work, instead of worrying about hitting objects. Even the open door stays inside the counterweight radius.



■ A durable product – built to last

We build in durability from the ground up. For full protection, all hoses are situated on top of the boom. The boom and dipperstick are built with internal welds, gussets and castings on both boom ends, providing more resistance.

Quicklock hydraulic fittings on the control valve prevent leakage.

For the rear and side covers, we have used an impact-resistant polymer plastic (DCPD), and subjected all components to severe testing and selection criteria. Furthermore, the big counterweight offset protects the tail cover, acting as a bumper.



Be smooth, be powerful!

While the superb cushioning in the boom cylinder improves overall smoothness, the fast cycle times combined with a smoother workgroup and increased breakout forces enhance productivity.

■ Precision work, with no rough edges

Fast reactions, simultaneous operations while travelling straight – plus reduced fuel consumption! All thanks to the closed centre hydraulic system with load sensing pump and valve that direct oil flow where needed.

Moreover, our auto-idle feature saves fuel, reduces noise levels and creates a more comfortable environment for everyone.

■ Lift more, lift higher

With enhanced stability and lifting capacity combined with their best-in-class proportional auxiliary flow of 75.7 l/min, the E45, E50 and E55 allow you to operate a wide range of attachments, offering you high versatility.



Enjoy the comfort you expect from a Bobcat excavator

■ Greater comfort means greater productivity

Do top-quality work, while dealing with less noise, vibration and heat, in the ergonomically designed cab.

Premium features for first-class comfort on any job:

- Joystick control of boom swing and auxiliary hydraulics means more precision, fewer pedals and more leg room
- Maintenance-free track rollers ensure better travel comfort and traction
- Fully adjustable suspension seat, for a smooth ride
- Adaptable vents provide excellent ventilation
- Blade flotation makes levelling jobs easier



New ergonomic and foldable travel pedals improve cab comfort.



Great visibility, for a safer, stress-free ride.

New front window opening system with air cylinders.



The tilt bucket is proportionally controlled by the joystick thumb switch with high precision thanks to the selectable auxiliary hydraulic flow.



Third joystick controls blade flotation and auto-shift travel motors activation, for a more comfortable work environment.

Expert fingertip control

■ Best-in-class instrument panel

All 3 to 5.5 tonne Bobcat compact excavators include as standard the newly upgraded Bobcat instrument panel. The system monitors vital machine fluid temperatures and pressures, and in the event a system sensor reads an abnormal condition, will shut the engine down to prevent serious damage to the engine or hydraulic system.

The monitor system provides the operator with information on engine temperature, fuel level, engine speed and machine hours.

The system also features a resettable job clock.

Selectable auxiliary hydraulic flow:

Pre-set auxiliary hydraulic modes for various types of attachments improving the controllability and productivity:

- Aux 3 – max. flow: e.g. breaker, compactor, auger
- Aux 2 – med. flow: e.g. clamp, grapple
- Aux 1 – low flow: e.g. tilt bucket

Refuelling sound indicator:

An interval beep indicates the level when refuelling. The shorter the intervals, the higher the level of fuel.

Prevents spillage due to overfilling.

Checking operating hours:

By simply pressing the information button on the instrument panel, the operator can scroll through the information "hours", "rpm" and "job".

Auto-idle: Saves fuel, reduces noise and creates a more comfortable environment. It can be activated at the operator's discretion and automatically causes the engine to drop to idle if the excavator functions are not used for a period of 4 seconds. The machine immediately returns to the pre-set throttle position when the operator starts movement again.

Automatic switch-off light(s):

Automatically switches off the lights 10 minutes after the engine is stopped. Prevents the battery from going flat when the operator forgets to turn off the lights.

Optional keyless ignition: This option makes it possible to start the excavator without a key.

Can be set for multiple operators, each of whom can have a unique code. This also helps to prevent theft.



You have the choice...

■ E45

- 4.6 t – Zero Tail Swing
- More compact machine
- Digging force (over bucket): 35.8 kN
- Engine power: 30.2 kW



■ E50

- 4.9 t – Zero Tail Swing
- More front lifting performance
- Digging force (over bucket): 42.0 kN
- Engine power: 35.4 kW



■ E55

- 5.5 t – Conventional Tail Swing
- More side lifting performance
- Higher stability and swing torque
- Engine power: 35.4 kW



■ Options that make the difference!

The E45, E50 and E55 offer a host of options, including:

Textile seat, cab with air conditioning, steel tracks, boom safety valve, boom and dipperstick safety valves, secondary proportional auxiliary hydraulics, long dipperstick (E45, E50), and more.

■ Save time on servicing

Servicing is simple and fast, thanks to easy access to all daily maintenance components and the main valve. Plus, the auto-tensioning fan and alternator belts eliminate the need for adjustment.



For greater safety, switch the battery off when needed.



Coolers easily separable for fast cleaning.



Lifting capacities

E45 - STANDARD DIPPERSTICK, STANDARD COUNTERWEIGHT

Rated lift capacity over blade, blade down					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	3703	923*			
3000	4489	1000*			923*
2000	4886	1058*		1442*	1138*
1000	4977	1126*		2114*	1393*
Ground	4823	1216*		2369*	1541*
-1000	4350	1309*	3736*	2279*	1477*

Rated lift capacity over side, blade up					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	3703	602			
3000	4489	403			529
2000	4886	313		815	510
1000	4977	283		738	472
Ground	4823	288		695	436
-1000	4350	372	1371	700	426

E45 - LONG DIPPERSTICK, ADDITIONAL COUNTERWEIGHT

Rated lift capacity over blade, blade down					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4134	808*			760*
3000	4836	893*			752*
2000	5170	953*		1179*	1000*
1000	5237	1026*		1975*	1290*
Ground	5102	1117*		2346*	1495*
-1000	4682	1253*	3757*	2348*	1511*

Rated lift capacity over side, blade up					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4134	561			760*
3000	4836	393			752*
2000	5170	334		1179*	558
1000	5237	306		824	512
Ground	5102	314		767	469
-1000	4682	377	1494	714	466

E50 - STANDARD DIPPERSTICK, STANDARD COUNTERWEIGHT

Rated lift capacity over blade, blade down					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4075	1054*			1008*
3000	4850	1106*			1020*
2000	5250	1158*		1644*	1287*
1000	5325	1225*		2495*	1600*
Ground	5175	1300*		2778*	1801*
-1000	4705	1382*	4064*	2693*	1758*

Rated lift capacity over side, blade up					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4075	558			598
3000	4850	405			596
2000	5250	331		922	573
1000	5325	316		830	521
Ground	5175	325		766	487
-1000	4705	379	1414	770	490

E50 - LONG DIPPERSTICK, ADDITIONAL COUNTERWEIGHT

Rated lift capacity over blade, blade down					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4600	595*		701*	
3000	5150	616*		800*	770*
2000	5480	800*	1243*	1037*	1014*
1000	5570	973*	2193*	1447*	1172*
Ground	5400	1167*	2729*	1727*	1309*
-1000	5050	1256*	2818*	1811*	1279*

Rated lift capacity over side, blade up					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4600	518			
3000	5150	407			468
2000	5480	338	1126	697	456
1000	5570	311	965	638	422
Ground	5400	325	942	594	402
-1000	5050	376	912	606	403

E55 - STANDARD DIPPERSTICK, STANDARD COUNTERWEIGHT

Rated lift capacity over blade, blade down					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 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*	2414*	1611*	

Rated lift capacity over side, blade up					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 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	1324	856	

* Rated hydraulic lift capacity

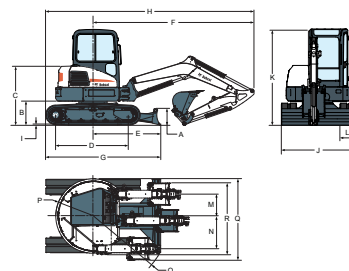
The lifting capacities are based on ISO 10567 and do not exceed 75% of the static tilt load of the machine or 87% of the hydraulic lifting capacity of the machine.

The lifting capacities include a standard 500 mm bucket (69 kg)

	E45	E50	E55
Weights			
Operating weight	4634 kg	4905 kg	5570 kg
Engine			
Make / Model	Kubota V2403-M-D1-E3B-BC-5	Kubota V2403-M-D1-TE38-BC-4	
Fuel / Cooling	Diesel / Liquid		
Maximum power (SAE J1349)	30.2 kW (at 2200 RPM)	35.4 kW (at 2200 RPM)	
Torque (SAE J1349)	152.7 Nm (at 1400 RPM)	179.5 Nm (at 1400 RPM)	
Number of cylinders	4		
Displacement	2.4 l		
Bore / Stroke	87.1 mm / 102.4 mm		
Alternator	12 V – 90 A – open frame with internal regulator		
Starter	12 V – reduction on drive – 2.0 kW		
Controls			
Steering	Direction and speed controlled by two hand levers or foot pedals		
Hydraulic System			
Pump type	Single outlet variable displacement, load sensing torque limited pump		
Piston pump capacity	99.1 l/min	138.5 l/min	
Auxiliary flow	75.7 l/min		
Control valve	9-spool, closed centre, individually compensated		
Performance			
Digging force (standard dipperstick)	25700 N	28700 N	26100 N
Digging force (long dipperstick)	23700 N	26100 N	-
Digging force, bucket	35800 N	42000 N	42000 N
Drawbar pull	40447 N	52343 N	52343 N
Ground pressure with standard dipperstick and rubber tracks	25.4 kPa	26.9 kPa	33.5 kPa
Ground pressure with standard dipperstick and steel tracks	26.1 kPa	27.6 kPa	34.3 kPa
Travel speed, low range	2.4 km/h	3.1 km/h	3.1 km/h
Travel speed, high range	4.2 km/h	5.0 km/h	5.0 km/h
Maximum digging depth (std dipperstick)	3300 mm	3524 mm	3923 mm
Maximum digging depth (long dipperstick)	3600 mm	3923 mm	-
Maximum dump height (std dipperstick)	3697 mm	3924 mm	4179 mm
Maximum dump height (long dipperstick)	3879 mm	4179 mm	-
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 motor connected to a planetary drive		
Slew rate	9.0 RPM		
Traction			
Track width	400 mm		
Number of track rollers per side	1 top, 5 bottom		
Gradeability	30°		
Brakes			
Travel brake	Hydraulic brake on motor		
Slew brake	Spring applied, hydraulically released		
Fluid Capacities			
Cooling system	8.3 l		
Engine lubrication plus oil filter	7.1 l		
Fuel reservoir	79.9 l		
Hydraulic reservoir	15.1 l		
Hydraulic system with bucket and dipper cylinder retracted, bucket on the ground, and blade down	54.9 l		
Environmental			
Noise level LpA (EU Directive 2000/14/EC)	79 dB(A)	81 dB(A)	81 dB(A)
Noise level LWA (EU Directive 2000/14/EC)	95 dB(A)	96 dB(A)	96 dB(A)
Whole body vibration (ISO 2631-1)	0.115 ms ²	0.157 ms ²	0.157 ms ²
Hand-arm vibration (ISO 5349-1)	0.304 ms ²	0.427 ms ²	0.427 ms ²

Dimensions

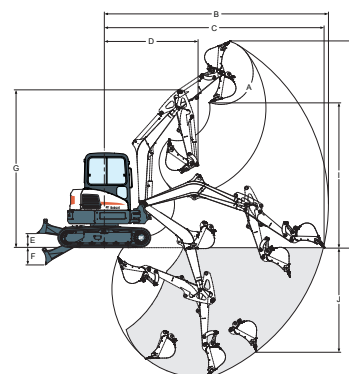
All dimensions in mm.



	E45	E50	E55
A	446	446	446
B	640	640	618
C	1575	1575	1575
D	1998	1998	1998
E	1797	1788	1796
F	4092	4294	3872
G	3058	3049	3057
H	5353	5555	5194
I	25	25	25
J	1960	1960	1960
K	2532	2532	2532
L	400	400	400
M	586	586	394
N	872	675	631
O	3973	2027	2041
P	980	997	1322
Q	2074	2074	2290
R	1874	1874	1949

Working Range

All dimensions in mm.



	E45	E50	E55
A	185°	185°	185°
B	5802	6062	6191
C	5670	5939	6083
D	2491	2541	2389
E	385	385	385
F	465	465	465
G	4095	4263	4269
H	5345	5595	5850
I	3697	3924	4179
J	2531	2815	3199
K	3300	3524	3923

Specifications and design are subject to change without notice. Pictures of Bobcat products may show other than standard equipment.

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