



Bobcat®

E45 - E50

Compact Excavators



SMOOTH
POWER
BY BOBCAT



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. 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 built 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 before they are approved for production.



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



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 offset 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.



The tilt bucket is proportionally controlled by the joystick thumb switch.

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

New front window opening system with air cylinders.



Third joystick controls blade flotation and second speed, for a more comfortable work environment.

You have the choice...

■ E45

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



■ E50

- 4.9 t
- More lifting performance
- Digging force (over bucket): 42.0 kN
- Engine power: 35.4 kW



■ Options that make the difference!

The E45 and E50 offer a host of options to personalize your compact excavator, including:

Long dipperstick, textile seat, cab with air conditioning, steel tracks, boom safety valve, boom and dipperstick safety valves, secondary proportional auxiliary hydraulics, 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.



E45

E50

Weights

Operating weight with heated cab	4634 kg	4905 kg
Operating weight with HVAC cab	4653 kg	4924 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	
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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
Digging force (long dipperstick)	23700 N	26100 N
Digging force, bucket	35800 N	42000 N
Drawbar pull	40447 N	52343 N
Ground pressure with standard dipperstick and rubber tracks	25.4 kPa	26.9 kPa
Ground pressure with standard dipperstick and steel tracks	26.1 kPa	27.6 kPa
Travel speed, low range	2.4 km/h	3.1 km/h
Travel speed, high range	4.2 km/h	5.0 km/h
Maximum digging depth (std dipperstick)	3300 mm	3524 mm
Maximum digging depth (long dipperstick)	3600 mm	3923 mm
Maximum dump height (std dipperstick)	3697 mm	3924 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

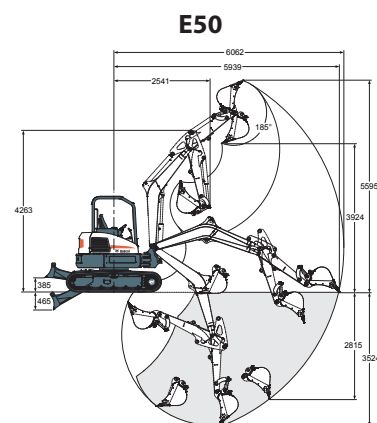
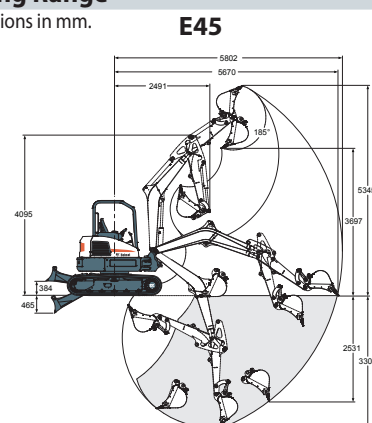
Cooling system	8.3 l
Engine lubrication plus oil filter	7.1 l
Fuel reservoir	79.9 l
Hydraulic reservoir	15.1 l
Hydraulic system with bucket and dipper cylinder retracted, bucket on the ground, and blade down	54.9 l

Environmental

Noise level LpA (EU Directive 2000/14/EC)	79 dB(A)	81 dB(A)
Noise level LWA (EU Directive 2000/14/EC)	95 dB(A)	96 dB(A)
Whole body vibration (ISO 2631-1)	0.115 ms ⁻²	0.157 ms ⁻²
Hand-arm vibration (ISO 5349-1)	0.304 ms ⁻²	0.427 ms ⁻²

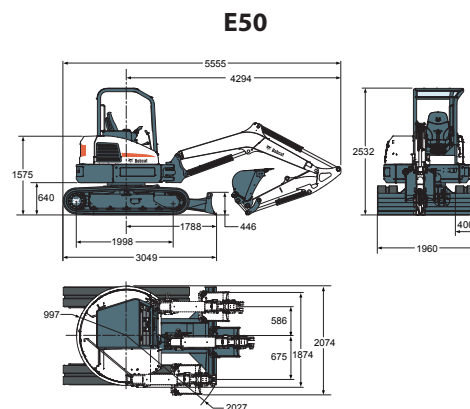
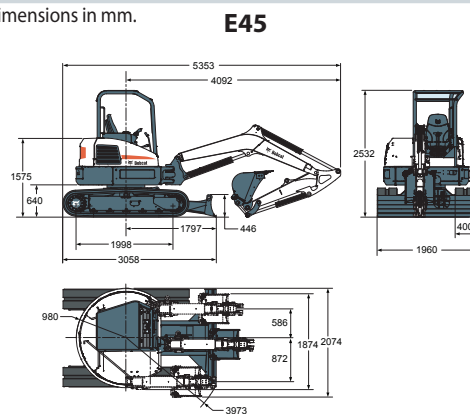
Working Range

All dimensions in mm.



Dimensions

All dimensions in mm.



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

