



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

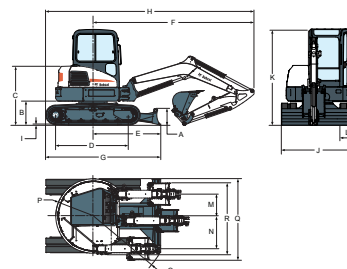
The lifting capacities are based on ISO 10567 and do not exceed 75% of the static tilt load of the machine or 87% of the hydraulic lifting capacity of the machine.

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

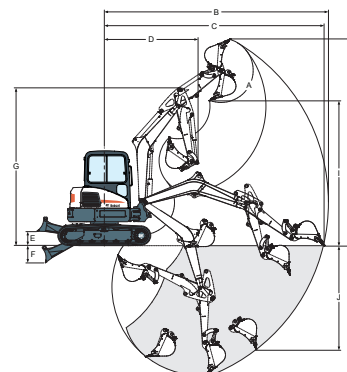
All dimensions in mm.



| | 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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