



# LARGE EXCAVATORS

14-24 Metric Tons



# GO BIG WITH BOBCAT.

Bobcat® large excavators scale up the performance for bigger, more difficult jobs. Their tough design and innovative features provide the quality, versatility and performance you expect from the Bobcat brand, plus fast cycle times, powerful lift capabilities and impressive reach to cut the biggest challenges down to size.



Machine: E220

**PERFORMANCE**



# TAKE ON THE BIG JOBS.

Powerful, quick and adaptable to all kinds of digging challenges, Bobcat large excavators are made for big challenges. Dig and lift with high-performance hydraulics that can be tailored to the task, and get the job done fast with time to spare.



Machine: E145

### STANDARD LONG ARM

A standard long arm configuration of nearly 3 meters maximizes breakout forces and provides plenty of reach for all types of tough digging and lifting tasks (not available on E165).

### ARM AND BUCKET FORCE

Powerful hydraulics provide reliable, steady power to the work group, saving time with every digging cycle. When the going gets tough, a one-touch power boost gives you extra hydraulic power – so you can break through a patch of tough ground without slowing down.

### LIFTING CAPACITY

Bobcat large excavators are made to deliver massive lifting capability. Their combination of size and hydraulic power enables you to lift more with greater confidence – so you can pick and place items with ease.

### ONE-TOUCH POWER BOOST

Need a quick burst of extra power? The convenient power-boost button on the right-hand joystick temporarily increases hydraulic power, allowing you to break through hard ground more efficiently.

### SLEW TORQUE

More slew torque means more power for slewing uphill, backfilling and all-around better productivity. With their advanced hydraulics and powerful pumps, Bobcat large excavators deliver high-productivity performance.

### BOBCAT ENGINE

Designed for high torque at low rpm, the turbo-charged, Tier 4 compliant Bobcat engine is made for reliable, efficient performance on your most challenging jobs. Thanks to its turbocharger, the Bobcat engine delivers consistent torque levels, regardless of the elevation where you work.

### FUEL-EFFICIENT PERFORMANCE

The engine's enhanced fuel efficiency, in combination with a new hydraulic main valve and the new-generation Smart Power Controls, provide increased fuel savings.

### NON-DPF

The engines across the Bobcat large excavator lineup achieve emissions compliance without the use of a diesel particulate filter (DPF). This means fewer components for easier maintenance, plus no work stoppage due to DPF regeneration.

## FOUR POWER MODES

Four selectable power modes give you adaptable performance to tackle the job as you see fit. Whether your priority is efficient fuel consumption or all-out power for tough digging, you can set performance to the demands of the job.



### POWER+

Get top work group speed to load trucks in less time and sustain peak performance in your most demanding applications.



### POWER

Command impressive power and performance for tough digging, quick loading and heavy lifting.



### STANDARD

Get balanced performance and reduced fuel usage for routine digging, lifting and grading.



### ECONOMY

Optimize fuel economy when power demands are lower or when doing precise digging and fine grading.

Machine: E145

## DIG INTO MASSIVE ACCOMPLISHMENTS.

From the tip of the bucket to the bottom of the tracks, Bobcat large excavators are designed to make short work of whatever task you have in front of you. From their powerful hydraulics to superb maneuverability, they'll help you break down the boundaries that slow down your work.

### AUTO SHIFT

When turning, pushing and maneuvering, auto shift improves machine responsiveness and controllability by shifting to low range automatically when the load is high and back to high range when the load diminishes. All you need to do is control speed and direction.

### AUTO SHUTDOWN

When enabled, auto shutdown saves fuel and machine wear by automatically shutting the machine off after idling for a set amount of time.

### PUSH LINK WITH LIFT EYE

Easily move heavy objects into and out of the trench with the cast push link with lift eye, standard on the E145, E220 and E245.



Machine: E220

### SMART POWER CONTROL (SPC)

While in digging work mode, SPC matches load to engine rpm, hydraulic pump torque and engine response, improving efficiency in any of the four power modes. Activate it in digging work mode, and turn it off whenever necessary.

### OPTIONAL DOZER BLADE

For improved digging stability, leveling ability on uneven surfaces and fast, easy backfilling, you can equip select models with an optional dozer blade.

### FAST CYCLE TIMES

To deliver top-tier cycle times, two variable displacement axial piston pumps provide maximum speed, power and efficiency in even the most difficult digging conditions.

### FINE SWING

Ease the E145, E220 or E245 swing to a smooth stop and reduce spillage on the job. The fine swing feature allows the upper structure of the excavator to stop gradually – improving your work efficiency with every cycle.

## TAIL SWING TYPES



Machine: E165

**CONVENTIONAL** tail swing on the E165 and E220 delivers impressive performance and strength to get the job done for tough work that requires the best possible lift capacity.



Machine: E145

**REDUCED** tail swing on the E145 and E245 provides maneuverability in tight jobsites, enabling operators to confidently use the machine around obstacles or against walls.

# MAXIMUM DEPENDABILITY FOR INCREASED PRODUCTIVITY

The demands of the job never yield, and your excavator should never let you down. Bobcat large excavators are made to withstand harsh jobsites, so you can keep up with your work and spend fewer hours on upkeep. A combination of smart design and robust workmanship ensures that your excavator is as resilient as you are.

Backed by a **3-YEAR/5,000-HOUR FULL-COVERAGE WARRANTY**, your Bobcat large excavator is protected for the long haul. And when it's time for service, your local dealer is ready to help, with certified technicians and genuine Bobcat parts that are proven to keep your machine running its best.

## CAST ENDS AND PIN BOSSES

Every major pin point on the boom and arm is cast. Reinforced cast-steel pin bosses provide extra strength for the tough working conditions you encounter in your job. Additionally, internal work group gussets enhance the integrity of the boom and arm structures to maximize their service life.

## VARIABLE SPEED HYDRAULIC COOLING FAN

The hydraulic oil cooler's variable speed cooling fan adjusts its speed as required by the demands on your excavator. This maintains optimal temperature in severe working conditions while reducing noise and increasing efficiency in lighter-duty situations.

## HEAVY-DUTY WEAR PLATES

Heavy-duty, wear-resistant plates at the attachment connecting pins increase durability at bucket pin-up points on the E145, E220 and E245.

## SPLIT COOLING SYSTEM

The cooling system design features an oil cooler and radiator that independently control the hydraulic system and engine temperatures for maximum cooling capacity. You'll get better cooling ability in severe conditions and improved protection of critical excavator components.

## OIL AND FILTER LIFE TRACKING

Before service is due (10 working hours), Bobcat large excavators remind you that oil and filters need replacing, making it easy to stay on top of maintenance needs. You can also review the hours you've worked since last servicing the machine.

## VANDALISM PROTECTION FEATURES

Your productivity depends on your excavator, and equipment is a common target for vandalism, misuse and even theft. A variety of features help protect your investment.

### ANTI-THEFT PROTECTION PASSWORD

Reduce the chance of burglary or unauthorized use.

### LOCKABLE PANELS

Protect machine components from vandalism.

### LOCKABLE FUEL FILL POINTS

Reduce the chance of diesel theft or contamination.

## CONTROL PATTERN SELECTOR

The control pattern selector accommodates unique operators with ISO and STD operation patterns.

## WATER SEPARATOR AND FUEL FILTER HEATER

A water separator and fuel filter heater (included on most models) reduces gelling and improves the ease of cold-weather startups.

## STRONG SEALS

Y-type seals are utilized on the arm end of the bucket pins, where contact with dirt and materials is most frequent. These seals perform better and last longer.

## MACHINE IQ TELEMATICS MACHINE IQ

Integrated telematics gives you real-time insights into machine performance, location and health – helping you stay ahead of maintenance, improve uptime and make smarter decisions about your equipment investment.



# EXPANSIVE VERSATILITY FOR GROWING AMBITIONS

Bobcat large excavators are optimized for productive, efficient attachment use. Their work modes, simple controls and attachment-focused features give you the ability to enhance performance for the task.



Machine: E145  
Attachment: Nitrogen Breaker

## SELECTABLE WORK MODES

Match performance to the task. Four work modes tailor the excavator's power to the work. Two of the modes will change the auxiliary hydraulic flow for using different types of attachments.



### DIGGING

This default setting delivers the power and response you need for general operation, from excavation to loading and lifting. Digging performance can be further optimized with the four power modes.



### LIFTING

Lifting mode will increase pump torque, lower engine rpm and prioritize boom hydraulic performance for lifting materials and objects – like pipes or concrete barriers.



### ONE-WAY

One-way auxiliary hydraulic flow works great for attachments that only require hydraulic power from one direction, such as breakers or plate compactors.



### TWO-WAY

Two-way auxiliary hydraulic flow is best for attachments that need bi-directional hydraulic flow, such as a hydraulic clamp, tilting bucket or shear.

## ROLLER SWITCH AND FOOT PEDAL ATTACHMENT CONTROL

The roller switch on the right joystick or the foot pedal attachment control offer precise attachment control.

## HYDRAULIC ATTACHMENT MANAGEMENT

The LCD display allows operators to configure 10 different attachment presets: five for one-way hydraulic flow and five more for two-way flow. Each preset can be used to optimize performance or match specific operational requirements of the attachment by limiting maximum pressure and setting the minimum or maximum flow rate.

Password protection functionality can protect your hydraulic settings. Minimize the possibility of using the wrong preset or help novice operators and rental users who have limited knowledge of hydraulic systems.

**COMFORT**

# KING-SIZED COMFORT

Enjoy a roomy, quiet cab for comfortable and productive operation. From the adjustable seat to the simple controls, Bobcat large excavators deliver next-level comfort for the most demanding jobs.

## VISIBILITY

The large cabin provides optimal visibility to the front and sides and an impressive view up above through the top window. Narrow corner pillars, window wiper and small window joints – as well as a removable lower-front window – provide a view that allows you to see the work comfortably. Front and top sunshades provide additional protection from eye strain while enhancing comfort.

*Machine: E145*

## JOYSTICK CONTROLS

Ergonomically designed joysticks offer low-effort control to help reduce fatigue. The keypad, which includes a jog shuttle switch, provides easy, precise control over all machine functions.



## **EASY-TO-READ 8-INCH TOUCH DISPLAY PANEL**

An easy-to-read 8-inch touch display provides the information and data you need to operate and troubleshoot effectively, including critical machine data, errors and warnings, as well as camera displays. The automatic night view function provides optimal visibility in low light conditions. The jog shuttle provides operators another navigation option for convenient display panel functionality.

## **REAR VIEW AND SIDE CAMERAS**

Improve your operation and maneuverability with better awareness of your machine's surroundings. The convenient rear and side-view cameras provide a clear view around your machine via the 8-inch touch display. The E145 includes a 360, all-around-view monitoring camera system that creates a composite view from above the machine.

## **KEYLESS START WITH REMOTE DOOR LOCK**

With the convenient Bobcat key fob, you can lock or unlock the cab door remotely and activate use of the push-button start.

## **CAB SUSPENSION AND SOUND ISOLATION**

The cab suspension system dampens engine vibrations and ground feedback in the cab to provide a more comfortable operating environment. Its pressurized seal minimizes dust and debris while isolating operators from noise outside the cab.

## **ADDITIONAL CAB FEATURES**

Other interior features include standard all-LED lighting, digital audio broadcasting radio with Bluetooth connectivity, and both fingertip (joystick) and foot pedal options to manage auxiliary control.

## **AUTOMATIC HEAT AND AIR CONDITIONING**

A premium heat and air-conditioning system enables impressive control over the cabin temperature. It functions similarly to many automotive systems. High-capacity heating and cooling vents enable fast, easy temperature adjustments for maximum comfort in extreme temperatures. Once you reach the desired temperature, the system senses and adjusts to maintain a constant temperature setting automatically. If you shut down the machine, the system returns to the previously set temperature when you restart.

## **HEATED AIR-SUSPENSION SEAT**

The heated air-suspension seat, included standard, has a wide range of adjustment points to help any operator find optimal comfort, including seat height, seat cushion angle, back recline and more.

## **EXTERNAL VOICE SPEAKER**

Use the external voice speaker on the E145 to communicate with others on the jobsite from inside the cab and reduce the number of cab exits for enhanced productivity.

# SPECIFICATIONS



| MODEL                                 | E145                                | E165                      | E220                      | E245                      |                           |
|---------------------------------------|-------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| <b>ENGINE</b>                         | Emissions Tier (EPA)                | Tier 4                    | Tier 4                    | Tier 4                    | Tier 4                    |
|                                       | Engine Make                         | Bobcat                    | Perkins                   | Bobcat                    | Bobcat                    |
|                                       | Engine Type                         | Turbo Diesel              | Turbo Diesel              | Turbo Diesel              | Turbo Diesel              |
|                                       | Gross Horsepower                    | 115.0 hp (85.8 kW)        | 131.0 hp (97.9 kW)        | 174.0 hp (129.0 kW)       | 189.1 hp (141.0 kW)       |
|                                       | Net Horsepower                      | 109.0 hp (81.2 kW)        | 129.0 hp (96.1 kW)        | 162.0 hp (121.0 kW)       | 170.3 hp (127.0 kW)       |
|                                       | Number of Cylinders                 | 4                         | 4                         | 6                         | 6                         |
| <b>PERFORMANCE</b>                    | Operating Weight                    | 34,946 lb. (15,851 kg)    | 38,376 lb. (17,407 kg)    | 52,738 lb. (23,972 kg)    | 56,908 lb. (25,813 kg)    |
|                                       | Weight Class                        | 14-16 T                   | 16-19 T                   | 21-24 T                   | 24-28 T                   |
|                                       | Tail Swing Type                     | Reduced                   | Conventional              | Conventional              | Reduced                   |
|                                       | Tail Overhang, Side                 | 9.0 in. (229 mm)          | 48.6 in. (1235 mm)        | 51.7 in. (1314 mm)        | 5.1 in. (129 mm)          |
|                                       | Rated Lift Capacity                 | 11,680 lb. (5300 kg)      | 16,390 lb. (7430 kg)      | 26,060 lb. (11,820 kg)    | 27,650 lb. (12,540 kg)    |
|                                       | Travel Speed – High                 | 2.9 mph (4.7 km/hr.)      | 3.1 mph (5.0 km/hr.)      | 3.4 mph (5.5 km/hr.)      | 3.6 mph (5.8 km/hr.)      |
|                                       | Travel Speed – Low                  | 1.7 mph (2.7 km/hr.)      | 1.9 mph (3.0 km/hr.)      | 1.9 mph (3.1 km/hr.)      | 1.9 mph (3.2 km/hr.)      |
|                                       | Arm Digging Force                   | 13,228 lbf. (58,841 N)    | 18,078 lbf. (80,414 N)    | 25,402 lbf. (112,994 N)   | 24,703 lbf. (109,885 N)   |
|                                       | Bucket Digging Force                | 24,471 lbf. (108,852 N)   | 25,794 lbf. (114,737 N)   | 35,464 lbf. (157,752 N)   | 35,464 lbf. (157,752 N)   |
|                                       | Lift Radius                         | 27 ft. 11.0 in. (8509 mm) | –                         | 20 ft. 4.1 in. (6200 mm)  | 14 ft. 2.9 in. (4340 mm)  |
|                                       | Max. Dig Depth                      | 19 ft. 7.6 in. (5985 mm)  | 19 ft. 11.5 in. (6085 mm) | 21 ft. 8.7 in. (6621 mm)  | 21 ft. 11.2 in. (6686 mm) |
|                                       | Max. Dump Height                    | 23 ft. 2.7 in. (7080 mm)  | 21 ft. 4.1 in. (6505 mm)  | 22 ft. 4.0 in. (6807 mm)  | 26 ft. 0.7 in. (7944 mm)  |
|                                       | Max. Reach at Ground Level          | 27 ft. 11.8 in. (8530 mm) | 28 ft. 10.0 in. (8790 mm) | 31 ft. 9 in. (9728 mm)    | 31 ft. 7.8 in. (9647 mm)  |
|                                       | Slew Speed                          | 9.9 rpm                   | 10.5 rpm                  | 10.9 rpm                  | 11.3 rpm                  |
| Max. Depth of Vertical Wall           | 15 ft. 4.3 in. (4681 mm)            | 16 ft. 7.2 in. (5059 mm)  | 18 ft. 11.6 in. (5782 mm) | 19 ft. 4.6 in. (5909 mm)  |                           |
| Ground Pressure                       | 5.6 psi (0.38 bar)*                 | 5.6 psi (0.38 bar)*       | 1.9 psi (3.1 bar)         | 1.9 psi (3.2 bar)         |                           |
| <b>CAPACITIES</b>                     | Fuel Tank                           | 55.0 gal. (208.1 L)       | 77.1 gal. (291.8 L)       | 103.6 gal. (392.0 L)      | 81.1 gal. (307.0 L)       |
|                                       | Hydraulic Reservoir                 | 34.0 gal. (128.7 L)       | 47.8 gal. (180.9 L)       | 34.6 gal. (131.0 L)       | 34.3 gal. (130.0 L)       |
| <b>HYDRAULIC SYSTEM</b>               | Auxiliary Pressure                  | 4694 psi (323.6 bar)      | 4694 psi (323.6 bar)      | 4978 psi (343.2 bar)      | 4978 psi (343.2 bar)      |
|                                       | Number of Hydraulic Pumps           | 1                         | 2                         | 2                         | 2                         |
|                                       | Total Hydraulic Flow                | 60.2 gpm (228.0 L/min.)   | 80.4 gpm (304.3 L/min.)   | 111.2 gpm (421.2 L/min.)  | 117.4 gpm (444.6 L/min.)  |
| <b>DIMENSIONS</b>                     | Length at Travel Position           | 26 ft. 2.6 in. (7990 mm)  | 27 ft. 0.8 in. (8250 mm)  | 31 ft. 4.8 in. (9570 mm)  | 29 ft. 5.1 in. (8970 mm)  |
|                                       | Width                               | 8 ft. 6.0 in. (2591 mm)   | 8 ft. 6.0 in. (2591 mm)   | 10 ft. 5.6 in. (3190 mm)  | 10 ft. 5.6 in. (3190 mm)  |
|                                       | Height (Top of Boom)                | 10 ft. 3.4 in. (3135 mm)  | 10 ft. 0.0 in. (3060 mm)  | 9 ft. 10.3 in. (3005 mm)  | 9 ft. 9.3 in. (2980 mm)   |
|                                       | Height (Top of Cab)                 | 9 ft. 5.2 in. (2875 mm)   | 9 ft. 7.0 in. (2925 mm)   | 9 ft. 9.3 in. (2980 mm)   | 10 ft. 3.0 in. (3123 mm)  |
|                                       | Blade Width                         | 8 ft. 6.0 in. (2590 mm)   | –                         | –                         | –                         |
|                                       | Length of Track on Ground           | 9 ft. 11.0 in. (3022 mm)  | 10 ft. 9.6 in. (3291 mm)  | 11 ft. 11.7 in. (3649 mm) | 11 ft. 11.7 in. (3649 mm) |
| <b>MACHINE FEATURES &amp; OPTIONS</b> | Cab HVAC                            | Std                       | Std                       | Std                       | Std                       |
|                                       | Cab Enclosure                       | Std                       | Std                       | Std                       | Std                       |
|                                       | Radio                               | Std                       | Std                       | Std                       | Std                       |
|                                       | Engine Shutdown                     | Std                       | Std                       | Std                       | Std                       |
|                                       | Auxiliary Hydraulics                | Std                       | Std                       | Std                       | Std                       |
|                                       | Quick Coupler                       | Opt                       | Opt                       | Opt                       | Opt                       |
|                                       | Rubber Track                        | Opt                       | –                         | –                         | –                         |
|                                       | Selectable Auxiliary Hydraulic Flow | Std                       | Std                       | Std                       | Std                       |
|                                       | Heated Air-Suspension Seat          | Std                       | Std                       | Std                       | Std                       |
|                                       | Dozer Blade                         | Opt                       | –                         | –                         | –                         |
| 2-Year MIQ Basics + 90-Day H&S Trial  | Std                                 | Std                       | Std                       | Std                       |                           |

\*Ground pressure for E145 and E165 is listed with 600 mm steel tracks. Ground pressure for E220 and E245 is listed with 800 mm steel tracks.



## E145

19 FT. 7 IN.  
DIG DEPTH

23 FT. 2 IN.  
DUMP HEIGHT CLEARANCE

27 FT. 11 IN.  
REACH AT GROUND LEVEL

11,680 LB.  
RATED LIFT CAPACITY (FRONT)



## E165

19 FT. 11 IN.  
DIG DEPTH

21 FT. 4 IN.  
DUMP HEIGHT CLEARANCE

28 FT. 10 IN.  
REACH AT GROUND LEVEL

16,390 LB.  
RATED LIFT CAPACITY (FRONT)



## E220

21 FT. 8 IN.  
DIG DEPTH

22 FT. 4 IN.  
DUMP HEIGHT CLEARANCE

31 FT. 9 IN.  
REACH AT GROUND LEVEL

26,060 LB.  
RATED LIFT CAPACITY (FRONT)



## E245

21 FT. 11 IN.  
DIG DEPTH

26 FT. 0 IN.  
DUMP HEIGHT CLEARANCE

31 FT. 7 IN.  
REACH AT GROUND LEVEL

27,650 LB.  
RATED LIFT CAPACITY (FRONT)



Machine: E220





Certain specification(s) are based on engineering calculations and are not actual measurements. Specification(s) are provided for comparison purposes only and are subject to change without notice. Specification(s) for your individual Bobcat equipment will vary based on normal variations in design, manufacturing, operating conditions, and other factors.



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