Bobcat®

442

Compact Excavators

PEFC
PEFC/07-31-77

Bobcat

Superior design for superior performance

The Bobcat 7-ton excavator

- Powerful
- Easy to operate
- Low engine noise
- Environmentally friendly
- Choice of tracks and boom

The 7-ton Bobcat 442 excavator offers state-of-the-art design and technology, making it an excavator providing truly superior performance.

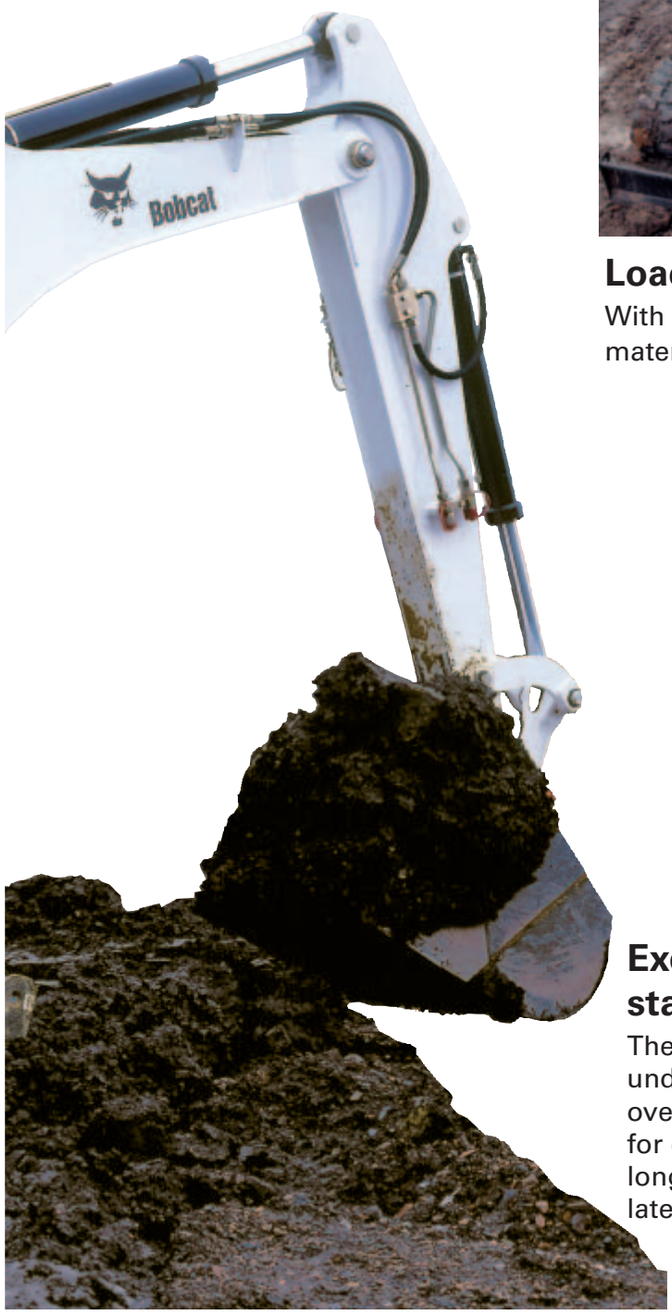
Efficiency

ZTS
Zero Tail Swing

The rear portion of the excavator does not project beyond the footprint of the tracks at any time when the upper structure is rotated.

240° Swing range

The right-hand corner of the excavator is designed so the machine can have a full 240° swing range. This allows the excavator to move alongside obstacles while loading at the same time a truck positioned behind the machine.



Load into trucks with high sides

With a height to bucket pin of 5.2 m, the 442 can easily load material into large trucks with sides as high as 4.2 metres.

Exceptional stability

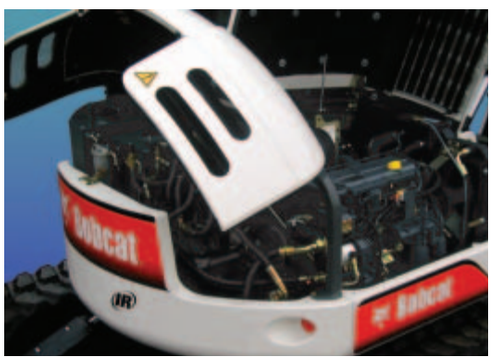
The rugged undercarriage is oversized to provide for exceptional longitudinal and lateral stability.

Features that make a difference

Load-sensing
An axial-piston pump with load-sensing, coupled with a load-independent flow division system, provides for simultaneous, independent control of all movements.

Two speed ranges
A 2-stage variable displacement hydrostatic motor provides for two speed ranges in both forward and reverse with a maximum speed of 5.2 km/h.

Maintenance-free undercarriage
The track rollers are sealed and lubricated for life. Track tensioning is fast and simple via grease cylinder.



Easy access
Flip-up hoods provide easy access to the service points.

Auxiliary hydraulics
Standard equipment includes 2-way auxiliary hydraulics, a direct return to tank for certain hydraulic breakers, as well as the tube lines to use a clamshell bucket.

Circular boom option
The optional circular boom provides for increased vertical digging depth, dumping height and reach, as well as a reduced front turning radius.

Load capacities in tons (t)		Load radius from the centre of the ring gear							
Bucket hinge pin height		3.0 m		4.0 m		5.0 m		6.0 m	
		180°	90°	180°	90°	180°	90°	180°	90°
3.0 m	Supported by blade	-	-	2.52	1.53	1.96	1.00	-	-
	Travelling	-	-	1.65	1.50	1.96	1.00	-	-
1.5 m	Supported by blade	3.24	2.33	2.61	1.42	2.14	0.97	1.74	0.69
	Travelling	2.25	2.30	1.59	1.39	1.06	0.94	0.75	0.67
0 m	Supported by blade	5.30	1.80	3.18	1.28	2.26	0.90	1.65	0.68
	Travelling	2.20	1.80	1.41	1.23	0.99	0.87	0.73	0.65
-1.0 m	Supported by blade	4.60	1.80	2.93	1.10	2.10	0.86	1.47	0.66
	Travelling	2.07	1.70	1.32	1.10	0.94	0.84	0.72	0.63

Worldwide Support

With the Bobcat 442, you get more than just an exceptional excavator. You also get the support of a worldwide network of Bobcat dealers offering industry-leading attachments, accessories and parts availability. Their factory-trained service technicians are equipped to handle all your parts and service requirements, including engine and hydrostatic/hydraulic components. There's an excellent warranty program, too. Get all the details from your Bobcat dealer.

Comfort and safety

Advanced steering system

Pilot-operated hand levers and pedals provide independent and precise control of the crawler tracks, including counterclockwise operation.

Operator-friendly instrument panel

Conveniently located on the right-hand side of the operator, the instrument panel displays clear information on all operating functions.

Comfortable cab

The insulated, full-vision cab provides a comfortable environment with a low working sound level of 74 dB. The suspension seat is fully adjustable for weight, height and backrest angle.

The front of the cab has a deflector to prevent water from getting into the cab, even under the worst weather conditions.

Anti-drop safety valve

Standard equipment includes a safety (anti-drop) boom valve for lifting applications as well as a load moment device to alert the stability limit of the excavator. The load moment device can be switched off, if needed.

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Specifications

Weights

Operating weight with ROPS cab	7500 kg
Additional weight for steel tracks	250 kg
Additional weight for circular boom	400 kg

Engine

Make / model	Deutz / BF-4M-2011 / COM2 (turbo)
Fuel / Cooling	Diesel / Oil
Maximum power at 2200 RPM (DIN 70020)	54.0 kW
Maximum torque at 1600 RPM (SAE Net)	270 Nm
Number of cylinders	4
Displacement	3.11 l
Bore / Stroke	94 mm / 112 mm
Alternator	12 V — 55 A — open frame with internal regulator
Starter	12 V — gear reduction type — 2.3 kW

Controls

Steering	Direction and speed controlled by two pilot-operated hand levers or foot pedals

Hydraulic System

Pump type	One engine-driven piston pump and one engine-driven gear pump
Piston pump capacity	156 l/min
Gear pump capacity	68 l/min
Auxiliary flow	100 l/min
Control valve	Nine-spool

Performance

Digging force, dipperstick	42600 N
Digging force, bucket	53200 N
Drawbar pull	60500 N
Ground pressure with rubber tracks	30.34 kPa
Travel speed, low range	2.7 km/h
Travel speed, high range	5.2 km/h
Maximum digging depth	4250 mm

Slew System

Boom swing, left	63°
Boom swing, right	65°
Slew circle	Single row shear-type ball bearings with internal gear
Slew drive	Axial piston motor with spring applied disk brake
Slew rate	10.0 RPM

Traction

Track width	450 mm
Number of track rollers per side	1 top, 6 bottom
Gradeability	30°

Brakes

Travel brake	Spring applied, hydraulically released, multi-disk brake
Slew brake	Spring applied, hydraulically released, multi-disk brake

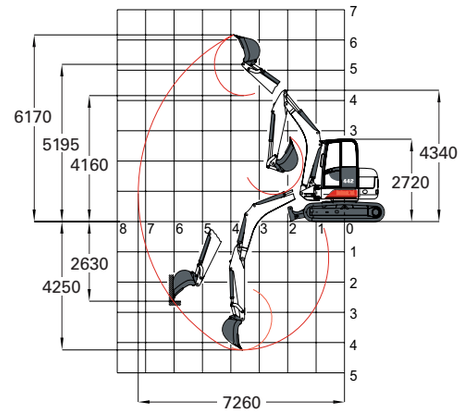
Fluid Capacities

Engine lubrication plus oil filter	10.0 l
Fuel reservoir	130.0 l
Hydraulic reservoir	110.0 l
Hydraulic system with bucket and dipper cylinder retracted, bucket on the ground, and blade down	140.0 l

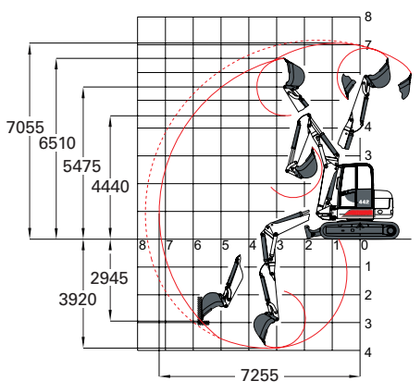
Working Range

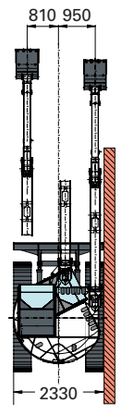
All dimensions in mm.

Monobloc boom



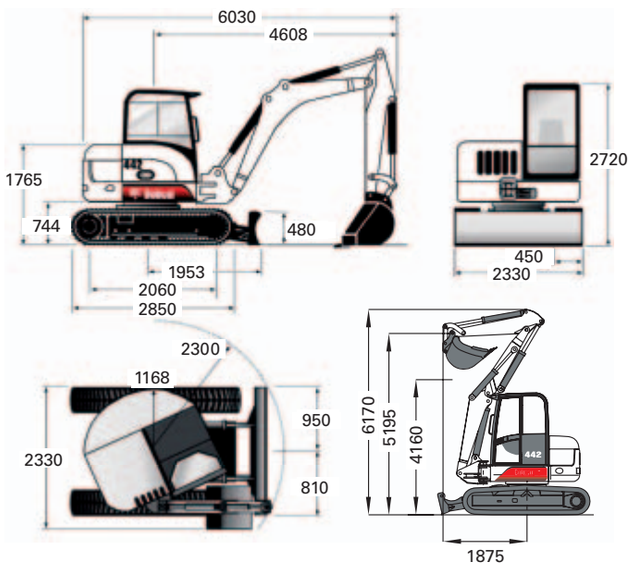
Circular boom





Dimensions

All dimensions in mm.



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

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