



# Bobcat® AL275 AL350 AL440



	AL275	AL350	AL440
<b>Operating Weight</b>	3900 kg	4800 kg	5700 kg
<b>Engine Output</b>	35.9 kW (48 HP)	45.1 kW (60.5 HP)	61.2 kW (82 HP)
<b>Bucket Capacities</b>	0.65 - 1.00 m <sup>3</sup>	0.8 - 1.20 m <sup>3</sup>	1 - 1.55 m <sup>3</sup>

**ARTICULATED LOADERS**

## Loaded with power

### The Bobcat® Articulated Loaders

- Powerful
- Easy to operate
- State-of-the-art safety and comfort

**Articulated Loaders incorporate the features of larger machines into a compact package that gets more work done in less time.**

**High performance, rugged durability, unsurpassed operator comfort, safety and product support make Bobcat compact equipment the right choice.**



### Versatility and productivity

Standard auxiliary hydraulics increase the versatility and productivity of the articulated loader by allowing the use of multifunction attachments such as side-dump, high-dump and multi-purpose buckets.

The Kubota engine provides superior power and torque. This, in combination with the multifunction loader joystick, enabling forward-reverse travel, float mode and auxiliary hydraulics, sets new standards for productivity.

High-speed option allows the articulated loaders to reach 36 km/h for faster mobility and productivity.



### Safety is a top priority

The rear cowling design provides maximum visibility to the rear of the machine. Fill spouts for the fuel and hydraulic fluid tanks are incorporated in the lockable rear hood. Front work lights supply ample illumination. Optional equipment, such as rear lights, a roof mounted beacon and back-up alarm, provide added safety. In addition, when equipped with the optional skylight guard, the cab is FOPS certified.



### Operator comfort

The cab is mounted on rubber dampeners that smooth out the ride on rough terrain by isolating the operator from the frame. Easy cab access from both sides of the machine, a hydraulically cushioned fully adjustable seat, panoramic visibility, ergonomic controls, a tiltable steering column, a standard radio installation kit and generous storage areas create a comfortable and convenient working environment.

Cab heating, air recycling and filtration, with 5 ventilation outlets, ensure an optimal environment for the operator. Air conditioning is available as an option.



## Designed for performance



### ← Higher tipping loads

The transverse mounted engine shifts the centre of gravity slightly to the rear of the machine. This strategic weight placement allows greater tipping loads while maintaining a compact design.



### ← Superior lifting strength

Manufactured to tackle tough jobs, the inertia-welded cylinders provide superior lifting strength and an extended service life.



### ← Hydrostatic drive train

Infinitely variable speed can be controlled within two speed ranges. This feature, combined with limited-slip differential axles, enables the loader to deliver maximum traction in any type of ground condition.



### ← Parallel loader linkage

The loader linkage is designed to deliver a high breakout force. In addition, versatility is increased by enabling the loader to function as an efficient tool carrier. The load position remains parallel to the ground throughout the lifting range for simple operation and better load retention.



### ← High ground clearance

Bobcat articulated loaders feature high ground clearance for greater mobility and component protection. High ground clearance and greater angle of departure allow for easy manoeuvrability around the jobsite where obstacles, uneven terrain and debris abound.

### Limited-slip differential →

The ability to maintain traction in tough conditions, as well as when loading the bucket, allows you to get more work done in less time. The limited-slip differential minimizes wheel spin and transfers power to the wheel with the most traction. This feature maximizes drive power and reduces tyre wear.



### Rubber dampeners →

Isolating components from shock loads and vibration enhances both machine life and operator comfort. Rubber dampeners are strategically placed between the axles and the mainframe to reduce shock loads on the machine and provide smooth operation.



### Shuttle-shift transmission →

Smoothly shifting between forward and reverse maximizes productivity and minimizes operator fatigue. The conveniently located joystick enables the operator to change direction without a jerking motion that wears on the operator and also reduces bucket load retention.



### Serviceability →

Providing easy, ground-level service access facilitates routine maintenance. This extends machine life, improves overall performance and reduces costly downtime. The tilt-up hood opens wide to provide simple access to daily service points, cooling system, fuel filters and battery.



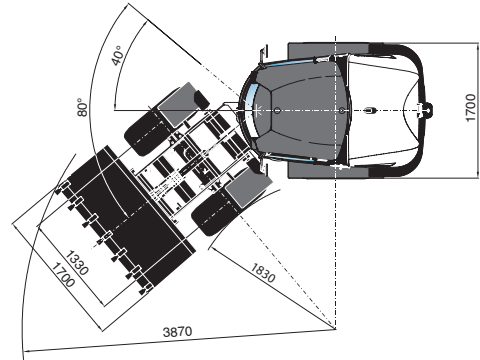
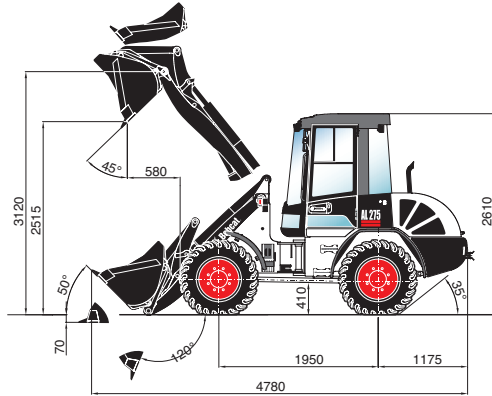
### Rear oscillating axle →

The maintenance-free rear oscillating axle provides superior ground adherence and excellent levelling characteristics, allowing for safe operation at all times and ensuring that the driver's view always remains parallel to the bucket edge.

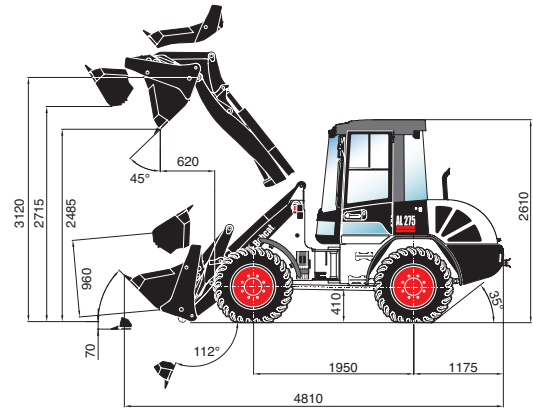
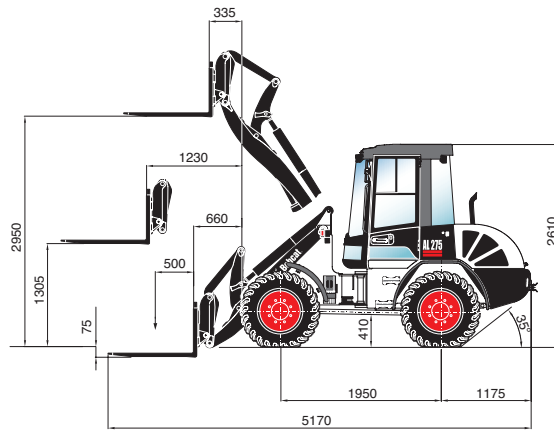


## Dimensions & Working range

### Standard bucket



### Forks and Multi-purpose bucket



All dimensions in mm.

### Buckets and Forks

Bucket type	Width (mm)	Heaped capacity (m <sup>3</sup> )	Dump height (mm)	Material density (t/m <sup>3</sup> )
Loading	1700	0.65	2515	1.8
Earth	1700	0.72	2455	1.6
Light material	1700	0.80	2420	1.2
Super-light	1850	1.00	2380	0.8
Multi-purpose	1700	0.60	2485	1.6
Side dump	1750	0.50	2480	1.8
High tip	1850	0.65	3390	1.2
Quarry	1850	0.55	2485	1.8

### Examples of material density

Material	Material density (t/m <sup>3</sup> )
Granite, sand (damp), gravel (damp)	1.8
Earth (damp), sand (dry), gravel (dry)	1.6
Coal, slate	1.2
Coke, wood chips (dry)	0.8

Fork type	Standard	Long
Tine length (mm)	900	1120
Tine cross-section (mm)	100 x 40	100 x 45
Payload over lift range [with rear axle weights] (kg)	1550 [1650]	1520 [1620]
Payload in transport position with rear axle weights (kg)	1900	1870
Lift height (mm)	2950	2950
Overall length on carrier (mm)	5170	5390

### Machine Rating

Lift breakout force (ISO 8313)	37000 N	Tipping load, straight (ISO 8313)	2750 kg
Lift capacity (ISO 8313)	33000 N	Tipping load, articulated at 40° (ISO 8313)	2475 kg

### Weights

Operating weight, standard	3900 kg
----------------------------	---------

### Engine

Make / Model	Kubota V2403-M-DI	Rated speed (EEC 80/1269, ISO 9249)	2600 RPM
Fuel	Diesel	Torque at 1700 RPM (ISO 9249)	162.0 Nm
Cooling	Liquid	Number of cylinders	4
Power at 2600 RPM (97/68 EC)	35.9 kW (48.1 HP)	Displacement	2.4 l
Power at 2600 RPM (ECE-R24)	35.0 kW (46.9 HP)		

### Hydraulic System

Pump type	Variable displacement drive pump with auxiliary gear pump. Priority supply of flow to the steering controlled by a load-sensing system ensuring all available flow is available if required. Thermostatically controlled oil cooler.
Pump capacity	41.0 l/min
System pressure, drive	250 bar
Control valve	Three control circuits with electro-hydraulically operated float position

### Steering

Articulation angle	±40°
Turning circle	3870 mm

### Brakes

Service brake	Hydraulically actuated central drum brake combined with hydrostatic final drive brake.
Parking brake	Mechanically actuated central drum brake on front axle.
Auxiliary brake	The hydrostatic final drive acts as an additional non-wearing brake.

### Drive System

Transmission type	Variable displacement hydrostatic pump, flange-mounted onto the engine. Two-stage variable displacement motor with power shift on the rear axle reduction gear. High-speed option adds an additional manual transmission shift that can be operated while stationary.
Final drive	Hydrostatic drive with advanced driving automatics. Automatic adjustment of propulsive force and speed. Continuous speed regulation in both forward and reverse. Four-wheel drive via propeller shaft linking rear and front axles.
Axles	Rigidly mounted planetary-drive front axle with central drum brake and self-locking differential. Trunnion mounted planetary-drive rear axle with ±12° oscillation angle, integrated reduction gear and self-locking differential. High-speed option has an additional integrated two-stage reduction gear.

### Traction

Maximum travel speed - Range I	Maximum travel speed - Hi-speed option - Range I
Maximum travel speed - Range II	Maximum travel speed - Hi-speed option - Range II

### Fluid Capacities

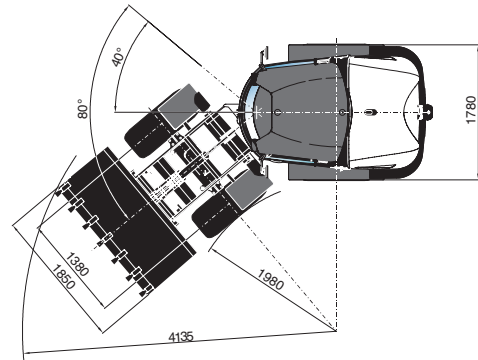
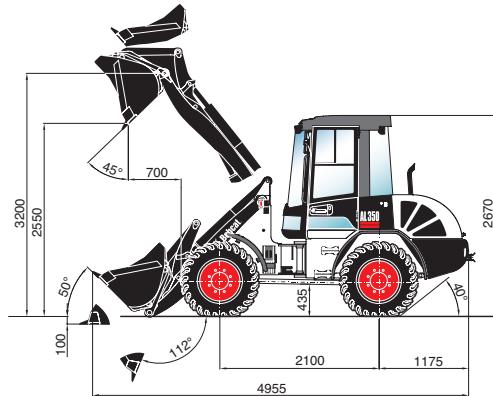
Engine oil with filter capacity	9.0 l	Hydraulic reservoir capacity	40.0 l
Fuel tank capacity	75.0 l	Hydraulic / Hydrostatic system capacity	49.0 l

### Controls

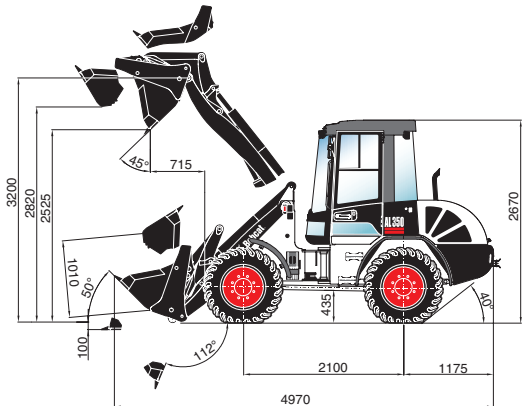
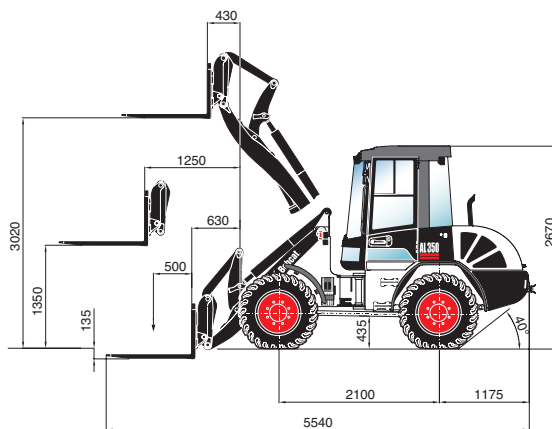
Auxiliary circuit	Switch on multi-function joystick
Loader hydraulics tilt and lift	Multi-function joystick with integrated direction-of-travel switch, float position switch and auxiliary control circuit switch.

## Dimensions & Working range

### Standard bucket



### Forks and Multi-purpose bucket



All dimensions in mm.

### Buckets and Forks

Bucket type	Width (mm)	Heaped capacity (m <sup>3</sup> )	Dump height (mm)	Material density (t/m <sup>3</sup> )
Loading	1850	0.80	2550	1.8
Earth	1850	0.90	2485	1.6
Light material	1850	1.00	2435	1.2
Super-light	1950	1.20	2395	0.8
Multi-purpose	1850	0.75	2525	1.6
Side dump	1850	0.70	2450	1.8
High tip	1850	0.70	3540	1.2
Quarry	1850	0.70	2525	1.8

Examples of material density	
Material	Material density (t/m <sup>3</sup> )
Granite, sand (damp), gravel (damp)	1.8
Earth (damp), sand (dry), gravel (dry)	1.6
Coal, slate	1.2
Coke, wood chips (dry)	0.8

Fork type	Standard
Tine length (mm)	900
Tine cross-section (mm)	100 x 40
Payload over lift range [with rear axle weights] (kg)	1550 [1650]
Payload in transport position with rear axle weights (kg)	1900
Lift height (mm)	2950
Overall length on carrier (mm)	5170



### Machine Rating

Lift breakout force (ISO 8313)	45000 N	Tipping load, straight (ISO 8313)	3500 kg
Lift capacity (ISO 8313)	48000 N	Tipping load, articulated at 40° (ISO 8313)	3150 kg

### Weights

Operating weight, standard	4800 kg
----------------------------	---------

### Engine

Make / Model	Kubota V3300-DI	Rated speed (EEC 80/1269, ISO 9249)	2200 RPM
Fuel	Diesel	Torque at 1400 RPM (ISO 9249)	221.0 Nm
Cooling	Liquid	Number of cylinders	4
Power at 2200 RPM (97/68 EC)	45.1 kW (60.5 HP)	Displacement	3.3 l
Power at 2200 RPM (ECE-R24)	44.5 kW (59.7 HP)		

### Hydraulic System

Pump type	Variable displacement drive pump with auxiliary gear pump. Priority supply of flow to the steering controlled by a load-sensing system ensuring all available flow is available if required. Thermostatically controlled oil cooler.
Pump capacity	64.0 l/min
System pressure, drive	250 bar
Control valve	Three control circuits with electro-hydraulically operated float position

### Steering

Articulation angle	±40°
Turning circle	4135 mm

### Brakes

Service brake	Hydraulically actuated central drum brake combined with hydrostatic final drive brake.
Parking brake	Mechanically actuated central drum brake on front axle.
Auxiliary brake	The hydrostatic final drive acts as an additional non-wearing brake.

### Drive System

Transmission type	Variable displacement hydrostatic pump, flange-mounted onto the engine. Two-stage variable displacement motor with power shift on the rear axle reduction gear. High-speed option adds an additional manual transmission shift that can be operated while stationary.
Final drive	Hydrostatic drive with advanced driving automatics. Automatic adjustment of propulsive force and speed. Continuous speed regulation in both forward and reverse. Four-wheel drive via propeller shaft linking rear and front axles.
Axles	Rigidly mounted planetary-drive front axle with central drum brake and self-locking differential. Trunnion mounted planetary-drive rear axle with ±12° oscillation angle, integrated reduction gear and self-locking differential. High-speed option has an additional integrated two-stage reduction gear.

### Traction

Maximum travel speed - Range I	Maximum travel speed - Hi-speed option - Range I
Maximum travel speed - Range II	Maximum travel speed - Hi-speed option - Range II

### Fluid Capacities

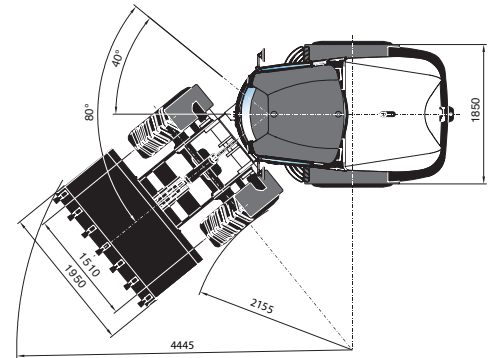
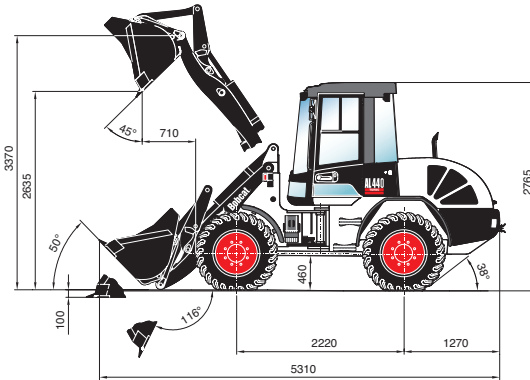
Engine oil with filter capacity	13.2 l	Hydraulic reservoir capacity	46.0 l
Fuel tank capacity	75.0 l	Hydraulic / Hydrostatic system capacity	55.0 l

### Controls

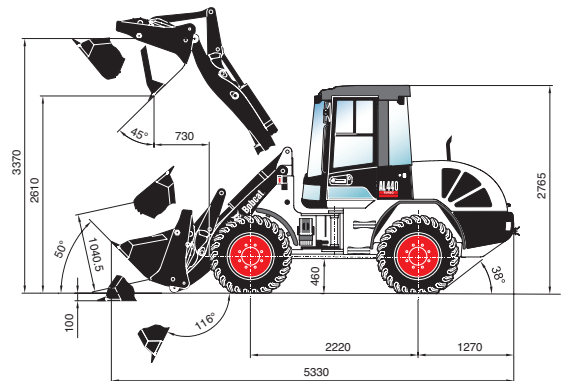
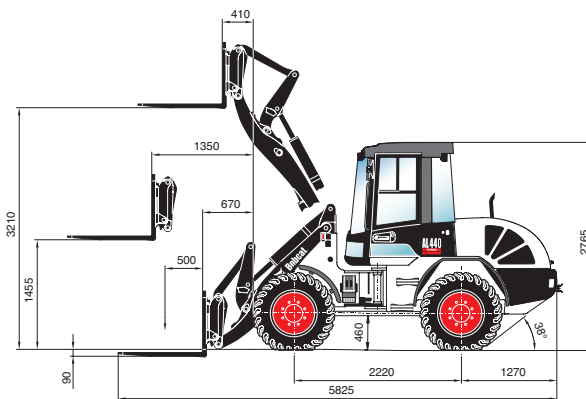
Auxiliary circuit	Switch on multi-function joystick
Loader hydraulics tilt and lift	Multi-function joystick with integrated direction-of-travel switch, float position switch and auxiliary control circuit switch.

## Dimensions & Working range

### Standard bucket



### Forks and Multi-purpose bucket



All dimensions in mm.

### Buckets and Forks

Bucket type	Width (mm)	Heaped capacity (m <sup>3</sup> )	Dump height (mm)	Material density (t/m <sup>3</sup> )
Loading	1950	1.00	2635	1.8
Earth	1950	1.10	2585	1.6
Light material	2050	1.35	2510	1.2
Super-light	2200	1.55	2485	0.8
Multi-purpose	1950	0.90	2610	1.6
Side dump	2050	0.85	2515	1.8
High tip	2050	1.00	3835	1.2
Quarry	2050	0.90	2610	1.8

### Examples of material density

Material	Material density (t/m <sup>3</sup> )
Granite, sand (damp), gravel (damp)	1.8
Earth (damp), sand (dry), gravel (dry)	1.6
Coal, slate	1.2
Coke, wood chips (dry)	0.8

Fork type	Standard
Tine length (mm)	900
Tine cross-section (mm)	100 x 40
Payload over lift range [with rear axle weights] (kg)	1550 [1650]
Payload in transport position with rear axle weights (kg)	1900
Lift height (mm)	2950
Overall length on carrier (mm)	5170

### Machine Rating

Lift breakout force (ISO 8313)	55000 N	Tipping load, straight (ISO 8313)	4400 kg
Lift capacity (ISO 8313)	61000 N	Tipping load, articulated at 40° (ISO 8313)	3900 kg

### Weights

Operating weight, standard	5700 kg
----------------------------	---------

### Engine

Make / Model	Kubota V3300-DI-T turbo	Power at 2200 RPM (ECE-R24)	60.5 kW (81.1 HP)
Fuel	Diesel	Rated speed (EEC 80/1269, ISO 9249)	2200 RPM
Cooling	Liquid	Torque at 1400 RPM (ISO 9249)	296,4 Nm
Power at 2200 RPM (97/68 EC)	61.2 kW (82.1 HP)	Number of cylinders	4
		Displacement	3.3 l

### Hydraulic System

Pump type	Variable displacement drive pump with auxiliary gear pump. Priority supply of flow to the steering controlled by a load-sensing system ensuring all available flow is available if required. Thermostatically controlled oil cooler.
Pump capacity	72.0 l/min
System pressure, drive	250 bar
Control valve	Three control circuits with electro-hydraulically operated float position

### Steering

Articulation angle	±40°
Turning circle	4445 mm

### Brakes

Service brake	Hydraulically actuated central drum brake combined with hydrostatic final drive brake.
Parking brake	Mechanically actuated central drum brake on front axle.
Auxiliary brake	The hydrostatic final drive acts as an additional non-wearing brake.

### Drive System

Transmission type	Variable displacement hydrostatic pump, flange-mounted onto the engine. Two-stage variable displacement motor with power shift on the rear axle reduction gear. High-speed option adds an additional manual transmission shift that can be operated while stationary.
Final drive	Hydrostatic drive with advanced driving automatics. Automatic adjustment of propulsive force and speed. Continuous speed regulation in both forward and reverse. Four-wheel drive via propeller shaft linking rear and front axles.
Axles	Rigidly mounted planetary-drive front axle with central drum brake and self-locking differential. Trunnion mounted planetary-drive rear axle with ±12° oscillation angle, integrated reduction gear and self-locking differential. High-speed option has an additional integrated two-stage reduction gear.

### Traction

Maximum travel speed - Range I	Maximum travel speed - Hi-speed option - Range I
Maximum travel speed - Range II	Maximum travel speed - Hi-speed option - Range II

### Fluid Capacities

Engine oil with filter capacity	13.2 l	Hydraulic reservoir capacity	62.0 l
Fuel tank capacity	110.0 l	Hydraulic / Hydrostatic system capacity	88.0 l

### Controls

Auxiliary circuit	Switch on multi-function joystick
Loader hydraulics tilt and lift	Multi-function joystick with integrated direction-of-travel switch, float position switch and auxiliary control circuit switch.

# AL275 AL350 AL440

## Standard Features

Auxiliary hydraulics  
Cab heating and Air intake filter  
Front working lights  
Hydraulically cushioned seat with seat belt  
Instrumentation  
Mitas EM01 tyres  
Multi-function joystick  
Parking brake  
Radio pre-installation  
Rubber-mounted full-vision ROPS\* cab with two

doors and sliding window on left-hand side  
Self-locking differentials  
Set of maintenance tools  
Tilt adjustable steering wheel  
Turbo-charger (only for AL440)  
Turn direction indicators  
Windscreen wipers and washer, front and rear

\* **Roll Over Protective Structure (ROPS)** – meets requirements of SAE-J1040 and ISO 3471

## Options

Air conditioning  
Air-cushioned seat with lumbar support  
Anti-theft device  
Backup alarm, automatic  
Backup alarm, deactivatable  
Biodegradable hydraulic oil (Panolin)  
Bucket ride control  
Continental MPT E-70 tyres  
Coupler for hydraulic hand-held breaker  
Dunlop SPT9 tyres  
Electric refuelling pump  
FOPS\*\* skylight guard  
Height and tilt adjustable steering wheel

High-speed travel  
Hose-rupture safety valves  
Hydraulic quick-attach system  
License plate illumination  
Load hook integrated in quick-attach system  
Mechanical quick-attach system  
Michelin XM27TL tyres  
Rear working light  
Rotating beacon  
Sliding door window on right-hand side  
TÜV-approval for Germany

\*\* **Falling Objects Protective Structure (FOPS)** – meets requirements of SAE-J1043 and ISO 3449, Level I

## Attachments

Crane jib  
Earth bucket  
Front ripper  
High-tip bucket  
Light material bucket  
Load hook (attachable on pallet forks)  
Loading bucket

Loading bucket with grapple  
Multi-purpose bucket  
Pallet forks  
Quarry bucket  
Side-dump bucket  
Super-light material bucket

## Worldwide Support

With the Bobcat AL275, AL350 and AL440, you get more than just exceptional articulated loaders. 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. Get all the details from your Bobcat dealer.



**BOBCAT EUROPE**  
J. Huysmanslaan, 59  
B - 1651 LOT Belgium  
[www.bobcat.com](http://www.bobcat.com)

An **IR Ingersoll-Rand** business

