

VOLVO EXCAVATORS

# EC330B PRIME

33,7-36,0t 269hp



# TAKE A TOUR. EXPERIENCE THE EC330B PRIME.

## MORE SAFETY

- **Safety** is a **core value** at Volvo and it shows in our machine.
- **Anti-slip steps and platforms** with punched steel plates for superior grip even when wet or icy.
- **Low engine emission levels and low noise.**
- **Tumbler length** ensures stability.
- **Recessed bolts on superstructure** walk areas for less risk of trip hazard.
- **Lead-free exterior paint** is in harmony with the environment.

## MORE PROFIT

- **Powerful, innovative and efficient Volvo engine:** well-matched to hydraulic system, components and design.
- Volvo continues to deliver **industry-leading fuel efficiency.**
- **Advanced hydraulic system** with priority functions and optional float position.
- **Optional hydraulic quick fit** increases versatility.





## MORE COMFORT

- **Large and comfortable cab** puts you in command with ergonomic controls.
- **Roomy, adjustable seat** supports your whole body.
- **Top-mounted windshield wiper** cleans a wider area – including both upper corners.
- **Vibration dampening** protects against whole body fatigue for all-day productivity.
- **Electronic climate control system** delivers the highest-capacity heating and cooling available.

## MORE UPTIME

- **Simplified, ground level serviceability** means more uptime.
- **Easy access, centralized lubrication points.**
- **Easy to learn. Easy to operate. Easy to get more done.**

## MORE QUALITY

- **Strengthened undercarriage frame** endures daily use.
- **Reinforced boom/arm and proven components** deliver every time.
- **Reinforced superstructure** with double welded corners.
- **Greased and sealed track link** guarantees long life.

# VOLVO – A PARTNER TO TRUST.

When you buy a machine because you know you can trust and depend on it every day. When you exit the cab after a long day feeling as good as when you entered. When you get more done and make more money in a machine made for your work. That's Volvo. That's the Volvo EC330B prime Excavator.

## **Your local partner around the globe**

Since 1927, Volvo has earned a global reputation for providing complete solutions. Volvo is built on core values of quality, safety and environmental care. The extensive line of construction equipment is augmented by Volvo's commercial transport solutions, including buses and trucks. This global experience and expertise have led to the ongoing development of engines with the lowest fuel consumption in their class. Today, the tradition continues with Volvo B prime-Series Excavators – designed and built to the exacting standards that make each machine a trusted Volvo partner.

## **New innovations in comfort**

More comfort leads to less fatigue and higher productivity. And more operators around the world know Volvo as the innovators of comfort. The innovation continues with the EC330B prime and its larger, more ergonomic work environment. Visibility is better. So are the seat, floor space and access to controls/switches.

## **Leading fuel efficiency, longer endurance**

Get the most out of each tank of fuel and the most work out of each day with industry-leading fuel efficiency. The EC330B prime helps you go farther.

## **The strength of Volvo quality**

Quality lasts. That is why Volvo is built with strength and high quality throughout. If you have ever operated a Volvo Wheel Loader, Articulated Hauler or any of our machines, you know that Volvo is your edge. From the well-built cab details to the reinforced service doors to the rigid, long-life undercarriage, the Volvo difference is clear.

## **The right protection**

The Volvo EC330B prime's proven, long life booms and arms are ready for the toughest conditions. It has been designed and tested to deliver strength and day after day endurance. Count on Volvo to help your business grow by getting the job done, making money and moving on to the next job.

## **Our experience, your work**

Get the job done in the excavator made for your work. From new road construction, 25-ton hauler loading and demolition to reclamation work, retention pond digging and utility/piping, the Volvo EC330B prime Excavator puts you in command.



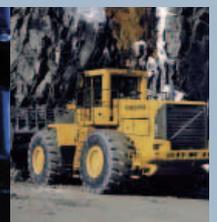
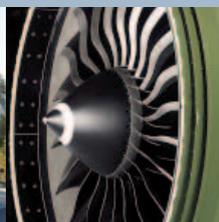


## VOLVO'S ENGINE LEADERSHIP SPANS LAND, SEA, SKY AND SPACE

As the world's second largest manufacturer of 9-to-18-liter diesel engines, Volvo has unmatched expertise designing power systems that move the world. Volvo engines for Volvo Construction Equipment, Volvo

Aero, Volvo Buses, Volvo Penta and Volvo Trucks define productivity and fuel economy. Our performance has been honed on land, over the sea, across the sky and into space. Leading research and development

keeps all Volvo Group products at the forefront of productivity. So when we say Volvo engines are tested — and proven — you can believe it. Trust in it. It's the real advantage of Volvo Power.



# BUILT TO RUN – SUPPORTED FOR LIFE.

Even the best machines need service and maintenance to be as productive tomorrow as they are today. With superior attention to detail, we've created a productivity chain of machines, parts and service. Our global Customer Support organization delivers the values you've come to expect from Volvo Construction Equipment.

## **We care about your operation – anywhere, anytime**

Volvo Construction Equipment comes with a professional Customer Support organization providing genuine parts, aftersale service and training - providing you with controlled owning and operation costs. With all the products and resources at our disposal, we can offer you the best support there is. Anywhere, anytime.

## **Four levels of support, one level of care**

The best way to get the most out of your Volvo is to invest in a Volvo Customer Support Agreement. Since business' needs vary, we've made it easy for you to select the agreement that's right for your business by creating four levels of Customer Support Agreements. We offer programs that provide everything from regular machine inspections to a comprehensive repair and maintenance program that takes the hassle and worry out of running a workshop and gives you total peace of mind.

## **CareTrack – fast and correct information**

CareTrack is an optional GPS monitoring program that works with the machine's diagnostic system. Installation is simple. You and your dealer can remotely track usage, productivity, fuel consumption and more. Maximize uptime through important service reminders. CareTrack also monitors geographic machine location and can even prevent unauthorized use. With CareTrack, you can focus on the care of your business while your Volvo dealer focuses on the care of your machine.

## **MATRIS reports on your efficiency**

MATRIS delivers detailed operating history analysis about the utilization and efficiency factors that influence your operating costs. MATRIS turns the data captured inside the machine's computer into easy-to-use graphs and reports. Maximize machine and operator performance, while reducing maintenance costs and increasing service life.

## **PROSIS makes parts ordering faster**

PROSIS is a CD-ROM application that makes it quick and easy for your Volvo dealer to order all your Volvo CE product parts. Your dealer will help you find the right part, place your order and get you back up and running fast.

Standard and optional equipment may vary by market. Please consult your local Volvo dealer for details.





# SPECIFICATIONS

## Engine

The new Volvo diesel engine delivers lower emissions, superior performance and fuel efficiency. The engine uses precise, high-pressure fuel injectors turbo charger and electronic engine controls to optimize machine performance.

**Automatic Idling System:** Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise levels.

Engine	Volvo D12D
Power output at	28 r/s (1,700 rpm)
Net (ISO 9249/SAE J1349)	184 kW (250 metric hp)
Gross (SAE J1995)	198 kW (269 metric hp)
Max. torque at 1,275 rpm	1,475 Nm
No. of cylinders	6
Displacement	12.1 l
Bore	131 mm
Stroke	150 mm

## Electrical system

High-capacity electrical system that is well protected. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage.

**Contronics:** provides advanced monitoring of machine functions and important diagnostic information.

Voltage	24 V
Batteries	2 x 12 V
Battery capacity	200 Ah
Alternator	28 V/80 A

## Service refill capacities

Fuel tank	620 l
Hydraulic system, total	500 l
Hydraulic tank	220 l
Engine oil	42 l
Engine coolant	60 l
Swing reduction unit	6.0 l
Travel reduction unit	2 x 5.5 l

## Swing system

The superstructure is swung by the means of an axial piston motor and a planetary reduction gear. Automatic swing holding brake and anti-rebound valve are standard.

Max. swing speed	9.7 rpm
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## Drive

Each track is powered by an automatic two-speed shift travel motor. The track brakes are multi-disc, spring-applied and hydraulic released. The travel motor, brake and planetary gears are well protected within the track frame.

Max. tractive effort	256.9 kN (26,200 kg)
Max. travel speed	3.3/4.5 km/h
Gradeability	35° (70%)

## Undercarriage

The undercarriage has a robust X-shaped frame. Greased and sealed track links are standard.

No. of track pads	2 x 48
Link pitch	215.9 mm
Shoe width, triple grouser	600/700/800/900 mm
Shoe width, double grouser	600 mm
No. of bottom rollers	2 x 8
No. of top rollers	2 x 2

## Hydraulic system

The hydraulic system, also known as the Integrated work mode control is designed for high-productivity, high-digging capacity, high-maneuvering precision and good fuel economy. The summation system, boom, arm and swing priority along with boom and arm regeneration provide optimum performance.

The following important functions are included in the system:

**Summation system:** Combines the flow of both hydraulic pumps to ensure quick cycle times and high productivity.

**Boom priority:** Gives priority to the boom operation for faster raising when loading or performing deep excavations.

**Arm priority:** Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.

**Swing priority:** Gives priority to swing functions for faster simultaneous operations.

**Regeneration system:** Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.

**Power boost:** All digging and lifting forces are increased.

**Holding valves:** Boom and arm holding valves prevent the digging equipment from creeping.

**Power Max:** All function speeds are increased.

## Main pump

Type	2 x variable displacement axial piston pumps
Maximum flow	2 x 280 l/min

## Pilot pump

Type	Gear pump
Maximum flow	1 x 25.5 l/min

## Hydraulic motors

Travel	Variable displacement axial piston motors with mechanical brake
Swing	Fixed displacement axial piston motor with mechanical brake

## Relief valve setting

Implement	31.4/34.3 Mpa (320/350 kg/cm <sup>2</sup> )
Travel system	34.3 Mpa (350 kg/cm <sup>2</sup> )
Swing system	25.5 Mpa (260 kg/cm <sup>2</sup> )
Pilot system	3.9 Mpa (40 kg/cm <sup>2</sup> )

## Hydraulic cylinders

Boom	2
Bore x Stroke	ø150 x 1,530 mm
Arm	1
Bore x Stroke	ø175 x 1,700 mm
Bucket	1
Bore x Stroke	ø145 x 1,285 mm
ME bucket	1
Bore x Stroke	ø160 x 1,250 mm

## Cab

The operator's cab has easy access via a wide door opening. The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels. The cab has excellent all-round visibility. The front windshield can easily slide up into the ceiling and the lower front glass can be removed and stored in the side door.

## Integrated air conditioning and heating system:

The pressurized and filtered cab air is supplied by an automatically controlled fan. The air is distributed throughout the cab from 13 vents.

**Ergonomic operator's seat:** The adjustable seat and joystick console move independently to accommodate the operator. The seat has nine different adjustments plus a seat belt for the operator's comfort and safety.

## Sound level in cab according to ISO 6396:

LpA 73 dB(A)

## External sound level according to ISO 6395 and EU Directive 2000/14/EC:

LwA 105 dB(A)

## Ground pressure

- Machine with 6.45 m boom, 3.2 m arm, 1,380 l (1,110 kg) bucket and 5,800 kg counterweight.

Description	Shoe width	Operating weight up to	Ground pressure	Overall width
Triple grouser	600 mm	33,700 kg	63.5 kPa (0.65 kg/cm <sup>2</sup> )	3,190 mm
	700 mm	34,340 kg	55.4 kPa (0.56 kg/cm <sup>2</sup> )	3,290 mm
	800 mm	34,740 kg	49.0 kPa (0.50 kg/cm <sup>2</sup> )	3,390 mm
	900 mm	35,120 kg	44.0 kPa (0.45 kg/cm <sup>2</sup> )	3,490 mm
Double grouser	600 mm	34,240 kg	64.4 kPa (0.66 kg/cm <sup>2</sup> )	3,190 mm

- Machine with 6.45 m boom, 3.2 m arm, 1,380 l (1,110 kg) bucket and 6,700 kg counterweight.

Description	Shoe width	Operating weight up to	Ground pressure	Overall width
Triple grouser	600 mm	34,600 kg	65.2 kPa (0.81 kg/cm <sup>2</sup> )	3,190 mm
	700 mm	35,240 kg	56.8 kPa (0.70 kg/cm <sup>2</sup> )	3,290 mm
	800 mm	35,640 kg	50.3 kPa (0.62 kg/cm <sup>2</sup> )	3,390 mm
	900 mm	36,020 kg	45.2 kPa (0.56 kg/cm <sup>2</sup> )	3,490 mm
Double grouser	600 mm	35,140 kg	66.1 kPa (0.81 kg/cm <sup>2</sup> )	3,190 mm

## Max. permitted buckets

Notes: 1. Bucket size based on ISO 7451, heaped material with a 1:1 angle of repose.  
 2. "Max. permitted sizes" are for reference only and are not necessarily available from the factory.  
 3. Bucket widths are less than bucket's tip radius.

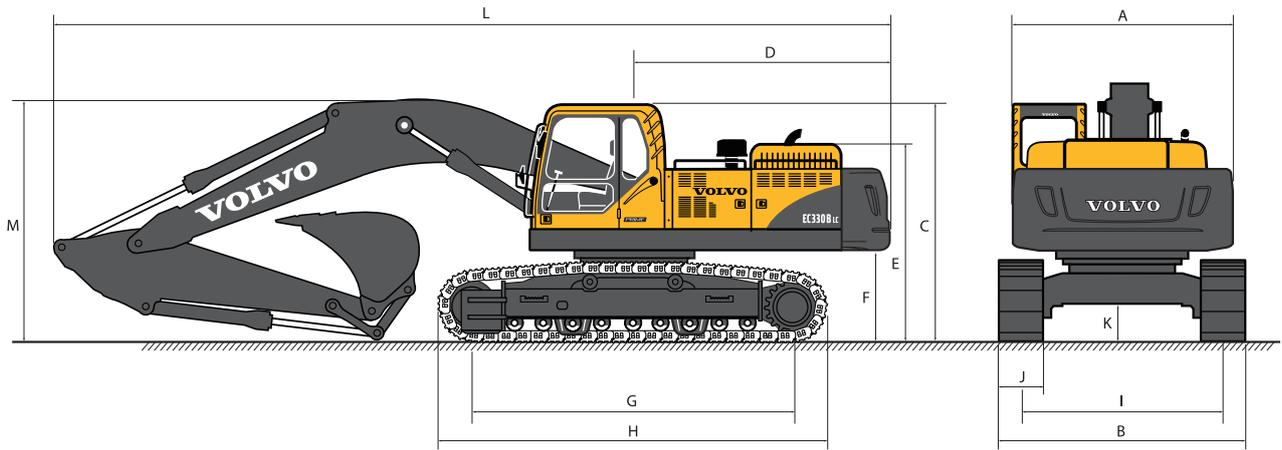
• **EC330B LC prime** with **direct fit bucket**, 5,800 kg / 6,700 kg\* counterweight.

Description	Max. bucket volume	6.2 m ME boom	6.45 m boom		
		2.6 m arm	2.6 m arm	3.2 m arm	3.9 m arm
GP bucket 1.5 t/m <sup>3</sup>	I	2,300 / 2,500*	2,200 / 2,400*	2,075 / 2,275*	1,800 / 1,975*
GP bucket 1.8 t/m <sup>3</sup>	I	2,000 / 2,200*	1,925 / 2,100*	1,825 / 1,975*	1,575 / 1,725*
HD bucket 1.8 t/m <sup>3</sup>	I	1,850 / 2,025*	1,775 / 1,925*	1,675 / 1,825*	1,450 / 1,600*
HD bucket 2.0 t/m <sup>3</sup>	I	1,725 / 1,875*	1,650 / 1,800*	1,550 / 1,700*	1,350 / 1,475*

• **EC330B LC prime** with **quick fit bucket**, 5,800 kg / 6,700 kg\* counterweight.

Description	Max. bucket volume	6.2 m ME boom	6.45 m boom		
		2.6 m arm	2.6 m arm	3.2 m arm	3.9 m arm
GP bucket 1.5 t/m <sup>3</sup>	I	2,175 / 2,375*	2,050 / 2,275*	1,950 / 2,125*	1,675 / 1,850*
GP bucket 1.8 t/m <sup>3</sup>	I	1,900 / 2,075*	1,800 / 1,975*	1,700 / 1,875*	1,475 / 1,625*
HD bucket 1.8 t/m <sup>3</sup>	I	1,750 / 1,925*	1,650 / 1,825*	1,575 / 1,725*	1,350 / 1,500*
HD bucket 2.0 t/m <sup>3</sup>	I	1,625 / 1,775*	1,550 / 1,700*	1,450 / 1,600*	1,250 / 1,375*

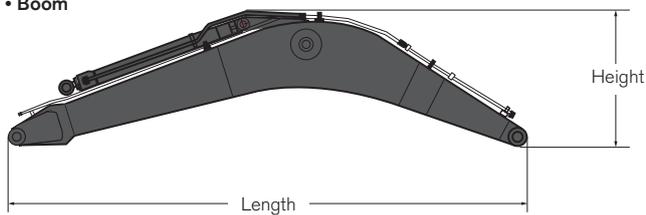
## Dimensions



Description	Unit	6.2 m ME boom		6.45 m boom	
		2.6 m arm	2.6 m arm	3.2 m arm	3.9 m arm
A. Overall width of superstructure	mm	2,990	2,990	2,990	2,990
B. Overall width	mm	3,190	3,190	3,190	3,190
C. Overall height of cab	mm	3,190	3,190	3,190	3,190
D. Tail swing radius	mm	3,500	3,500	3,500	3,500
E. Overall height of engine hood	mm	2,700	2,700	2,700	2,700
F. Counterweight clearance *	mm	1,210	1,210	1,210	1,210
G. Tumbler length	mm	4,020	4,020	4,020	4,020
H. Track length	mm	4,962	4,962	4,962	4,962
I. Track gauge	mm	2,590	2,590	2,590	2,590
J. Shoe width	mm	600	600	600	600
K. Min. ground clearance *	mm	500	500	500	500
L. Overall length	mm	11,020	11,270	11,180	11,230
M. Overall height of boom	mm	3,700	3,580	3,350	3,590

\* Without shoe grouser

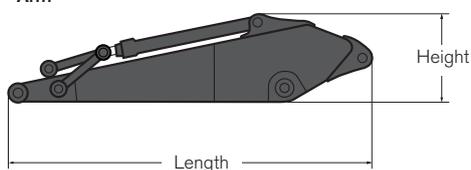
### • Boom



Description	Unit	6.2 m ME	6.45 m
Length	mm	6,460	6,700
Height	mm	1,740	1,800
Width	mm	820	820
Weight	kg	3,290	3,060

\* Includes cylinder, pin and piping

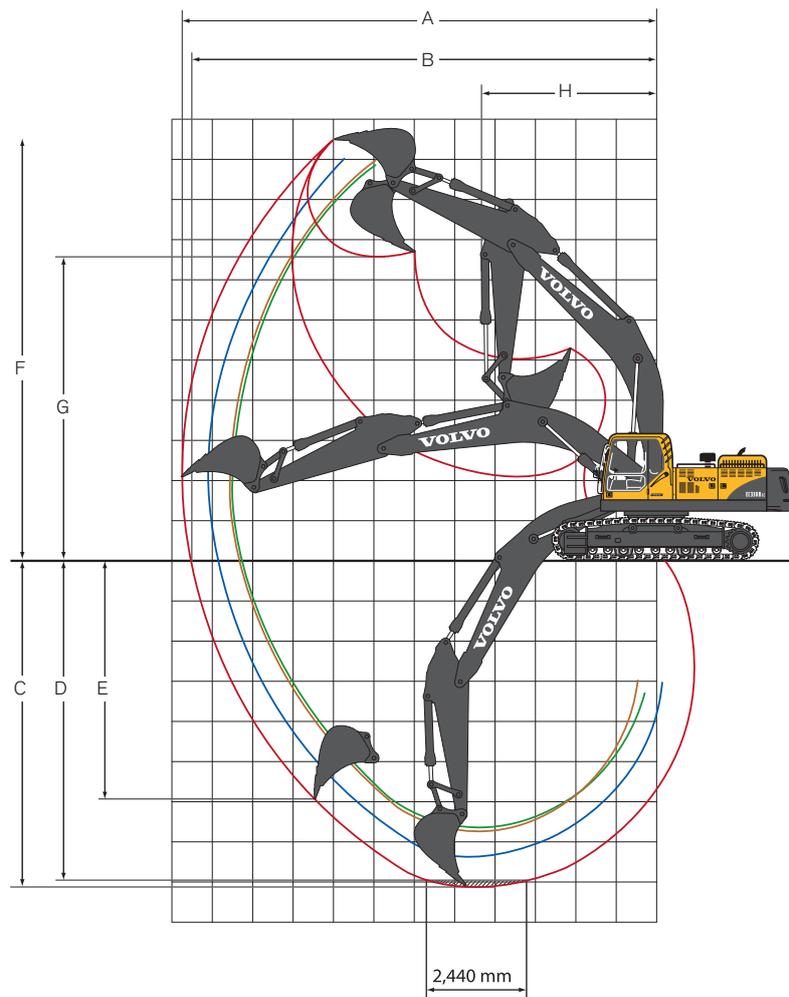
### • Arm



Description	Unit	2.6 m	3.2 m	3.9 m
Length	mm	3,780	4,360	5,080
Height	mm	1,145	1,145	1,140
Width	mm	560	560	560
Weight	kg	2,020	1,920	2,240

\* Includes cylinder, piping and linkage

## Working ranges & digging forces



Machine with direct fit bucket	Unit	6.2 m ME boom		6.45 m boom	
		2.6 m arm	2.6 m arm	3.2 m arm	3.9 m arm
A. Max. digging reach	mm	10,480	10,540	11,060	11,700
B. Max. digging reach on ground	mm	10,250	10,320	10,850	11,500
C. Max. digging depth	mm	6,720	6,770	7,370	8,080
D. Max. digging depth (2.44 m level)	mm	6,540	6,570	7,190	7,930
E. Max. vertical wall digging depth	mm	4,880	4,900	5,290	5,920
F. Max. cutting height	mm	10,070	10,100	10,260	10,530
G. Max. dumping height	mm	6,830	7,170	7,360	7,630
H. Min. front swing radius	mm	4,180	4,390	4,340	4,320

Digging forces with direct fit bucket		Unit	6.2 m ME boom		6.45 m boom	
			2.6 m arm	2.6 m arm	3.2 m arm	3.9 m arm
Bucket radius		mm	1,810	1,623	1,623	1,623
Breakout force – bucket (Normal/Power boost)	SAE J1179	kN	208/228	192/209	192/209	192/209
	ISO 6015	kN	236/258	215/236	215/236	215/236
Tearout force – arm (Normal/Power boost)	SAE J1179	kN	182/200	190/207	157/172	137/150
	ISO 6015	kN	188/206	195/213	161/176	140/153
Rotation angle, bucket		deg	164	177	177	177

## Lifting capacity

At the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick fit from the following values.

### • EC330B LC prime

 Across undercarriage  Along undercarriage	Lifting hook related to ground level	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		
														
ME boom 6.45 m + Arm 2.6 m + Shoe 600 mm + Counterweight 5,800 kg	6.0 m kg					*9,130	*9,130	*8,540	6,410			*8,520	5,690	8,010
	4.5 m kg			*13,530	*13,530	*10,470	8,810	*9,070	6,210			7,780	4,950	8,580
	3.0 m kg					*12,050	8,270	9,460	5,950			7,260	4,570	8,870
	1.5 m kg					12,960	7,850	9,200	5,720			7,120	4,450	8,890
	0 m kg			*19,150	11,610	12,700	7,620	9,040	5,570			7,340	4,570	8,640
	-1.5 m kg	*13,360	*13,360	*18,410	11,650	12,640	7,570	9,010	5,540			8,050	4,990	8,120
	-3.0 m kg	*22,120	*22,120	*16,730	11,860	*12,760	7,680					9,630	5,950	7,240
	-4.5 m kg	*17,490	*17,490	*13,410	12,290							*9,930	8,340	5,860
Boom 6.45 m + Arm 3.2 m + Shoe 600 mm + Counterweight 5,800 kg	6.0 m kg							*7,980	6,680			*6,920	5,260	8,590
	4.5 m kg			*12,200	*12,200	*9,810	9,140	*8,630	6,450	7,410	4,770	*6,990	4,650	9,120
	3.0 m kg			*15,730	13,000	*11,490	8,560	*9,510	6,160	7,280	4,640	6,790	4,320	9,390
	1.5 m kg			*18,310	12,090	*12,980	8,070	9,380	5,890	7,130	4,510	6,660	4,210	9,410
	0 m kg			*19,250	11,720	12,860	7,760	9,170	5,700	7,030	4,410	6,830	4,290	9,180
	-1.5 m kg	*13,820	*13,820	*19,000	11,660	12,720	7,640	9,080	5,610			7,370	4,610	8,690
	-3.0 m kg	*21,890	*21,890	*17,770	11,800	12,770	7,690	9,140	5,670			8,540	5,330	7,880
	-4.5 m kg	*20,590	*20,590	*15,200	12,140	*11,410	7,940					*9,870	6,950	6,630
Boom 6.45 m + Arm 3.9 m + Shoe 600 mm + Counterweight 5,800 kg	6.0 m kg							*7,070	6,780	*6,960	4,900	*5,490	4,590	9,290
	4.5 m kg					*8,670	*8,670	*7,790	6,500	*7,320	4,780	*5,530	4,090	9,790
	3.0 m kg			*13,810	13,330	*10,400	8,650	*8,730	6,160	7,260	4,600	*5,730	3,810	10,040
	1.5 m kg			*16,850	12,140	*12,060	8,040	9,340	5,820	7,060	4,420	5,930	3,700	10,060
	0 m kg	*8,370	*8,370	*18,490	11,500	12,720	7,620	9,050	5,560	6,900	4,280	6,040	3,750	9,840
	-1.5 m kg	*12,980	*12,980	*18,860	11,280	12,480	7,400	8,890	5,420	6,830	4,210	6,440	3,980	9,390
	-3.0 m kg	*18,860	*18,860	*18,190	11,330	12,450	7,380	8,870	5,410			7,270	4,490	8,640
	-4.5 m kg	*23,040	*23,040	*16,360	11,590	*12,310	7,540	9,080	5,590			9,030	5,560	7,530

Notes: 1. Machine in "Fine Mode-F" (Power Boost), for lifting capacities.

2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.

3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

4. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

## Lifting capacity

At the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick fit from the following values.

### • EC330B LC prime

 Across undercarriage  Along undercarriage	Lifting hook related to ground level	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		
														
ME boom 6.2 m + Arm 2.6 m + Shoe 600 mm + Counterweight 6,700 kg	6.0 m kg					*9300	*9,300	*8830	6,880			*8,850	6,510	7,730
	4.5 m kg			*13,310	13,310	*10,530	9,530	*9,240	6,720			8,730	5,630	8,330
	3.0 m kg			*16,680	13,640	*12,060	9,000	*9,950	6,470			8,120	5,200	8,620
	1.5 m kg			*18,790	12,870	*13,340	8,560	9,870	6,240			7,970	5,070	8,640
	0 m kg			*19,180	12,630	13,630	8,310	9,710	6,090			8,240	5,210	8,390
	-1.5 m kg	*16,020	*16,020	*18,450	12,660	13,560	8,260	9,690	6,070			9,090	5,730	7,850
	-3.0 m kg	*22,170	*22,170	*16,580	12,870	*12,520	8,390					*10,270	6,910	6,930
	-4.5 m kg			*12,710	*12,710							*10,010	*10,010	5,470
Boom 6.45 m + Arm 2.6 m + Shoe 600 mm + Counterweight 6,700 kg	6.0 m kg					*9,130	*9,130	*8,540	6,900			*8,520	6,150	8,010
	4.5 m kg			*13,530	*13,530	*10,470	9,460	*9,070	6,700			8300	5,360	8,580
	3.0 m kg					*12,050	8,920	*9,840	6,440			7,750	4,970	8,870
	1.5 m kg					*13,340	8,500	9,820	6,210			7,610	4,850	8,890
	0 m kg			*19,150	12,580	13,550	8,270	9,660	6,060			7,860	4,980	8,640
	-1.5 m kg	*13,360	*13,360	*18,410	12,620	13,500	8,220	9,630	6,030			8,610	5,440	8,120
	-3.0 m kg	*22,120	*22,120	*16,730	12,830	*12,760	8,340					*10,000	6,460	7,240
	-4.5 m kg	*17,490	*17,490	*13,410	13,250							*9,930	9,010	5,860
Boom 6.45 m + Arm 3.2 m + Shoe 600 mm + Counterweight 6,700 kg	6.0 m kg							*7,980	7,170			*6,920	5,680	8,590
	4.5 m kg			*12,200	*12,200	*9,810	9,790	*8,630	6,940	7,900	5,160	*6,990	5,040	9,120
	3.0 m kg			*15,730	13,970	*11,490	9,220	*9,510	6,650	7,760	5,040	7,250	4,700	9,390
	1.5 m kg			*18,310	13,060	*12,980	8,720	10,010	6,380	7,620	4,900	7,120	4,580	9,410
	0 m kg			*19,250	12,690	13,710	8,410	9,790	6,190	7,520	4,810	7,300	4,670	9,180
	-1.5 m kg	*13,820	*13,820	*19,000	12,630	13,570	8,290	9,700	6,110			7,880	5,020	8,690
	-3.0 m kg	*21,890	*21,890	*17,770	12,770	*13,430	8,340	9,760	6,170			9,120	5,790	7,880
	-4.5 m kg	*20,590	*20,590	*15,200	13,100	*11,410	8,590					*9,870	7,520	6,630
Boom 6.45 m + Arm 3.9 m + Shoe 600 mm + Counterweight 6,700 kg	6.0 m kg							*7,070	*7,070	*6,960	5,290	*5,490	4,970	9,290
	4.5 m kg					*8,670	*8,670	*7,790	7,000	*7,320	5,170	*5,530	4,450	9,790
	3.0 m kg			*13,810	*13,810	*10,400	9,300	*8,730	6,650	7,740	5,000	*5,730	4,160	10,040
	1.5 m kg			*16,850	13,100	*12,060	8,690	*9,690	6,320	7,540	4,820	*6,100	4,050	10,060
	0 m kg	*8,370	*8,370	*18,490	12,460	*13,250	8,270	9,670	6,060	7,390	4,670	6,480	4,100	9,840
	-1.5 m kg	*12,980	*12,980	*18,860	12,250	13,330	8,050	9,510	5,910	7,320	4,600	6,900	4,350	9,390
	-3.0 m kg	*18,860	*18,860	*18,190	12,290	13,300	8,030	9,490	5,900			7,790	4,900	8,640
	-4.5 m kg	*23,040	*23,040	*16,360	12,560	*12,310	8,190	*9,200	6,080			*9,130	6,050	7,530

Notes: 1. Machine in "Fine Mode-F" (Power Boost), for lifting capacities.

2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.

3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

4. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

## STANDARD EQUIPMENT

### Engine

Turbocharged, 4 stroke 6 cylinder diesel engine water cooling, direct injection and charged air cooler  
Air filter with indicator  
Air intake heater  
Electric engine shut-off  
Fuel filter and water separator  
Alternator, 80 A

### Electric / Electronic control system

Contronics:  
– Advanced mode control system  
– Self-diagnostic system  
Machine status indication  
Engine speed sensing power control  
"Power Max" mode system  
Automatic idling system  
One-touch power boost  
Safety stop/start function  
Adjustable monitor  
Engine restart prevention circuit  
High capacity halogen lights:  
– Frame mounted 2  
– Boom mounted 2  
Batteries, 2 x 12 V/200 Ah  
Start motor, 24 V/6.6 kW

### Hydraulic system

Automatic hydraulic system:  
– Summation system  
– Boom priority  
– Arm priority  
– Swing priority  
Boom and arm regeneration valves  
Swing anti-rebound valves  
Boom and arm holding valves  
Multi-stage filtering system  
Cylinder cushioning  
Cylinder contamination seals  
Auxiliary hydraulic valve  
Automatic two-speed travel motors

### Superstructure

Access way with handrail  
Tool storage area  
Punched metal anti-slip plates

### Cab and interior

Hydraulic dampening cab mounts  
Adjustable operator seat and joystick control console  
Control joystick with 3 switches each  
Flexible antenna  
Hydraulic safety lock lever

Cab, all-weather sound suppressed, includes:  
– Ashtray  
– Cup holder  
– Lighter  
– Door locks  
– Floor mat  
– Horn  
– Large storage area  
– Pull-up type front window  
– Removable lower windshield  
– Seat belt  
– Tinted safety glass  
Front (upper & lower): laminated glass  
Side & rear: tempered glass  
– Windshield wiper with intermittent function  
Master key

### Undercarriage

Hydraulic track adjusters  
Greased and sealed track link  
Track guards

## OPTIONAL EQUIPMENT

### Engine

Diesel coolant heater, 10 kW  
Oil bath pre-cleaner  
Block heater; 120 V, 240 V  
Fuel filter pump, 35 l/min  
Fuel filter pump, 50 l/min with automatic shut-off  
Water separator with heater

### Electric

Extra lights:  
– Cab-mounted 3, (front 2, rear 1)  
– Boom-mounted 2  
– Counterweight-mounted 1  
Rotating warning beacon  
Travel alarm  
Anti-theft system

### Hydraulic system

Hose rupture valve: boom, arm  
Overload warning device  
Hammer & shear piping  
– 1 and 2 pump flow  
– Pump flow control for hammer & shears  
– Additional return filter  
– 1 switch control  
– 2 switch control  
– Pedal control  
Slope & rotator piping  
Grapple piping

Oil leak (drain) line piping  
Quick fit piping  
Volvo hydraulic quick fit (S3)  
Hydraulic oil, ISO VG 32  
Hydraulic oil, ISO VG 46  
Hydraulic oil, ISO VG 68  
Hydraulic oil, biodegradable 32  
Hydraulic oil, biodegradable 46  
Straight travel pedal

### Superstructure

Counterweight, 5,800 kg/6,700 kg  
Undercover: 2.3 mm/HD 4.5 mm  
Service walk  
Cab entrance step

### Cab and interior

Fabric seat  
Fabric seat with heater  
Fabric seat with heater and air suspension  
Air-conditioner without heater, manual  
Heater & air-conditioner, automatic  
Pilot control pattern change  
Semi-long joysticks  
Control joystick with 5 switches each  
Cab-mounted falling object guard (FOG)  
Cab-mounted falling object protective structures (FOPS)  
AM/FM stereo radio  
AM/FM stereo with CD player and MP3 input

Rain shield, front  
Sun screens, front, roof, rear  
Sunlight protection, roof (steel)  
Safety screen for front window  
Lower wiper  
Anti-vandalism kit assembly preparation  
Anti-vandalism kit  
Specific key

### Undercarriage

Full track guards  
Undercover: 4.5 mm/10 mm HD

### Track shoes

Track shoes 600/700/800/900 mm with triple grousers  
Track shoes 600 mm with double grousers

### Digging equipment

Boom: 6.2 m ME  
6.45 m GP  
Arm: 2.6/3.2/3.9 m GP

### Service

Hand lamp  
Spare parts  
Tool kit, full scale  
Tool kit, daily maintenance  
CareTrack

Standard and optional equipment may vary by market. Please consult your local Volvo dealer for details.

# VOLVO CONSTRUCTION EQUIPMENT



Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 175 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different.

Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

## **VOLVO**

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