

VOLVO EXCAVATORS

# EC210B PRIME

20.7-23.7 t 167 hp



# TAKE A TOUR. EXPERIENCE THE EC210B 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, sealed track link** prevents leaks and guarantees long life.



# VOLVO - A PARTNER TO TRUST.

Trust. It's the foundation of any relationship – especially the one you have with your machine. That's why Volvo and the Volvo EC210B prime Excavator are the trusted partners with you through it all. Wherever it goes, it earns more than its share of work, respect and profits. It's got proven, industry-leading fuel economy and a legendary Volvo cab that's better than ever. The Volvo EC210B prime is the perfect all-around machine for residential to mid-sized building contractors and civil contractors in jobs such as truck loading, pipe laying and even demolition. The profits are out there. Go get it.

## **Volvo: your global, local partner**

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.

## **A smart, quality investment**

Go ahead, look at other competitors. You'll notice the Volvo difference right away. The EC210B prime is built to last. There's no skimping on quality — from the well-built cab details to the reinforced service doors to the rigid, long-life undercarriage.

If you have ever operated a Volvo Wheel Loader, Articulated Hauler or any one of our full scope of global equipment offerings, you know that Volvo is a symbol of quality, comfort and safety. Trust the Volvo EC210B prime Excavator to be there for you — everyday — from the first turn of the key to the last load of the day.

## **New innovations in comfort**

You might know Volvo for comfort. The EC210B prime lives up to that reputation and takes it to a whole new level of innovation with a larger, more ergonomic work environment. Visibility is better. So are the seat, floor space and access to controls/switches.

## **Fuel efficiency goes farther**

You should know Volvo for fuel efficiency — and the EC210B prime is set to retain the title as the industry leader that gets the most work and profits out of each tank. Volvo: your most fuel-efficient option.

## **Put it to work on your job**

When it comes to getting a multitude of jobs done — from excavating foundations, site grading and trenching to backfilling, truck loading and utility/piping, the Volvo EC210B prime Excavator puts you in command.

## **Proven endurance**

The Volvo EC210B prime's proven, long life booms and arms smile in the face of brutal conditions. Before it hits your jobsite, we've designed it, forged it and tested it to deliver strength and day after day endurance. That means you can count on Volvo to help your business grow — now and into the future — with the peace-of-mind and confidence to get the job done, make money and move on to the next job.







## 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 next-generation Volvo diesel engine uses common rail direct injection system to deliver lower emissions, superior performance and fuel efficiency. The engine uses precise, highpressure fuel injectors, turbo charger and intercooler, 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 D6E EAE2
Power output at	30 r/s (1 800 rpm)
Net (ISO 9249/SAE J1349)	110 kW (150 metric hp)
Gross (SAE J1995)	123 kW (167 metric hp)
Max. torque at 1 350 rpm	730 Nm
No. of cylinders	6
Displacement	5.7 l
Bore	98 mm
Stroke	126 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	150 Ah
Alternator	28 V/80 A

## Service refill capacities

Fuel tank	350 l
Hydraulic system, total	295 l
Hydraulic tank	160 l
Engine oil	25 l
Engine coolant	32 l
Swing reduction unit	8.6 l
Travel reduction unit	2 x 5.8 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	11.6 rpm
Max. swing torque	76.6 kNm

## 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	183 kN (18 673 kg)
Max. travel speed	3.4/5.7 km/h
Gradeability	35° (70%)

## Undercarriage

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

<b>EC210B LC prime</b>	
No. of track pads	2 x 49
Link pitch	190 mm
Shoe width, triple grouser	500/600/700/800/900 mm
Shoe width, triple grouser, HD	600 mm
Shoe width, double grouser	700 mm
No. of bottom rollers	2 x 8
No. of top rollers	2 x 2

<b>EC210B LR prime</b>	
No. of track pads	2 x 49
Link pitch	190 mm
Shoe width, triple grouser	800/900 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.

## Main pump

Type	2 x variable displacement axial piston pumps
Maximum flow	2 x 200 l/min

## Pilot pump

Type	Gear pump
Maximum flow	1 x 18 l/min

## Hydraulic motors

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

## Relief valve setting

Implement	32.4/34.3 Mpa (330/350 kg/cm <sup>2</sup> )
Travel system	34.3 Mpa (350 kg/cm <sup>2</sup> )
Swing system	27.9 Mpa (285 kg/cm <sup>2</sup> )
Pilot system	3.9 Mpa (40 kg/cm <sup>2</sup> )

## Hydraulic cylinders

Boom	2
Bore x Stroke	ø125 x 1,235 mm
Arm	1
Bore x Stroke	ø135 x 1,540 mm
Bucket	1
Bore x Stroke	
2.5/2.9/3.5 m arm	ø120 x 1,065 mm
2.0 m arm	ø130 x 1,040 mm
LR arm	ø100 x 865 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 70 dB(A)

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

LwA 104 dB(A)



## Ground pressure

- **EC210B LC prime with** 5.7 m boom, 2.9 m arm, 920 l (678 kg) bucket and 3 700 kg counterweight.

Description	Shoe width	Operating weight up to	Ground pressure	Overall width
Triple grouser	500 mm	20 670 kg	51.0 kPa (0.52 kg/cm <sup>2</sup> )	2 890 mm
	600 mm	20 930 kg	43.1 kPa (0.44 kg/cm <sup>2</sup> )	2 990 mm
	700 mm	21 380 kg	38.2 kPa (0.39 kg/cm <sup>2</sup> )	3 090 mm
	800 mm	21 655 kg	33.3 kPa (0.34 kg/cm <sup>2</sup> )	3 190 mm
	900 mm	21 940 kg	30.4 kPa (0.31 kg/cm <sup>2</sup> )	3 290 mm
Triple grouser HD	600 mm	21 100 kg	44.1 kPa (0.45 kg/cm <sup>2</sup> )	2 990 mm
Double grouser	700 mm	21 635 kg	38.2 kPa (0.39 kg/cm <sup>2</sup> )	3 090 mm

- **EC210B LC prime with** 5.7 m boom, 2.9 m arm, 920 l (678 kg) bucket and 4 200 kg counterweight.

Description	Shoe width	Operating weight up to	Ground pressure	Overall width
Triple grouser	500 mm	21 170 kg	53.0 kPa (0.54 kg/cm <sup>2</sup> )	2 890 mm
	600 mm	21 430 kg	44.1 kPa (0.45 kg/cm <sup>2</sup> )	2 990 mm
	700 mm	21 880 kg	39.2 kPa (0.40 kg/cm <sup>2</sup> )	3 090 mm
	800 mm	22 155 kg	34.3 kPa (0.35 kg/cm <sup>2</sup> )	3 190 mm
	900 mm	22 440 kg	31.4 kPa (0.32 kg/cm <sup>2</sup> )	3 290 mm
Triple grouser HD	600 mm	21 600 kg	45.1 kPa (0.46 kg/cm <sup>2</sup> )	2 990 mm
Double grouser	700 mm	22 135 kg	39.2 kPa (0.40 kg/cm <sup>2</sup> )	3 090 mm

- **EC210B LR prime with** 8.85 m boom, 6.25 m arm, 520 l (451 kg) bucket and 4 900 kg counterweight.

Description	Shoe width	Operating weight up to	Ground pressure	Overall width
Triple grouser	800 mm	23 230 kg	36.3 kPa (0.37 kg/cm <sup>2</sup> )	3 190 mm
	900 mm	23 735 kg	32.4 kPa (0.33 kg/cm <sup>2</sup> )	3 290 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.

- **EC210B LC prime** with **direct fit bucket**, 4 200 kg counterweight.

Description	Max. bucket volume	5.7 m HD boom			
		2.0 m arm	2.5 m arm	2.9 m arm	3.5 m arm
GP bucket 1.5 t/m <sup>3</sup>	I	1 550	1 425	1 300	1 200
GP bucket 1.8 t/m <sup>3</sup>	I	1 375	1 250	1 150	1 075
HD bucket 1.8 t/m <sup>3</sup>	I	1 300	1 175	1 100	1 000
HD bucket 2.0 t/m <sup>3</sup>	I	1 200	1 100	1 025	950

- **EC210B LC prime** with **S1 quick fit bucket**, 4 200 kg counterweight.

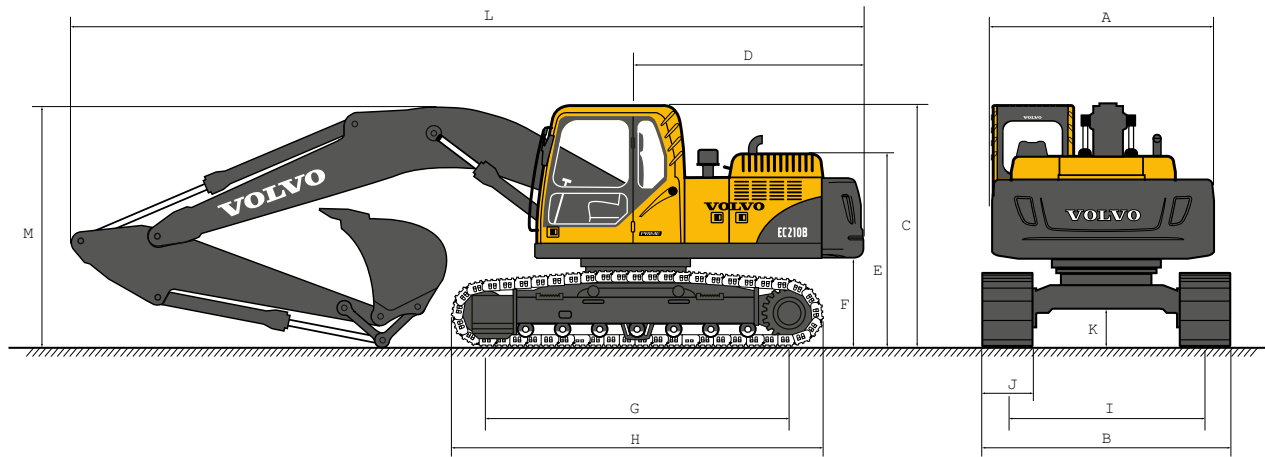
Description	Max. bucket volume	5.7 m HD boom			
		2.0 m arm	2.5 m arm	2.9 m arm	3.5 m arm
GP bucket 1.5 t/m <sup>3</sup>	I	1 450	1 325	1 225	1 100
GP bucket 1.8 t/m <sup>3</sup>	I	1 275	1 175	1 075	975
HD bucket 1.8 t/m <sup>3</sup>	I	1 225	1 100	1 025	925
HD bucket 2.0 t/m <sup>3</sup>	I	1 125	1 025	950	875

- **EC210B LC prime** with **U quick fit bucket**, 4 200 kg counterweight.

Description	Max. bucket volume	5.7 m HD boom			
		2.0 m arm	2.5 m arm	2.9 m arm	3.5 m arm
GP bucket 1.5 t/m <sup>3</sup>	I	1 400	1 275	1 175	1 075
GP bucket 1.8 t/m <sup>3</sup>	I	1 250	1 125	1 025	950
HD bucket 1.8 t/m <sup>3</sup>	I	1 175	1 075	975	900
HD bucket 2.0 t/m <sup>3</sup>	I	1 100	1 000	925	825



## Dimensions

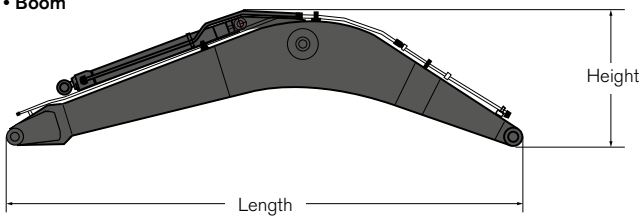


Description	Unit	EC210B LC prime				EC210B LR prime
		5.7 m boom				8.85 m boom
		2.0 m arm	2.5 m arm	2.9 m arm	3.5 m arm	6.25 m arm
A. Overall width of superstructure	mm	2 700	2 700	2 700	2 700	2 700
B. Overall width	mm	2 990	2 990	2 990	2 990	2 990
C. Overall height of cab	mm	2 940	2 940	2 940	2 940	2 940
D. Tail swing radius	mm	2 860	2 860	2 860	2 860	2 860
E. Overall height of engine hood	mm	2 345	2 345	2 345	2 345	2 345
F. Counterweight clearance *	mm	1 032	1 032	1 032	1 032	1 032
G. Tumbler length	mm	3 660	3 660	3 660	3 660	3 660
H. Track length	mm	4 460	4 460	4 460	4 460	4 460
I. Track gauge	mm	2 390	2 390	2 390	2 390	2 390
J. Shoe width	mm	600	600	600	600	800
K. Min. ground clearance *	mm	460	460	460	460	460
L. Overall length	mm	9 800	9 760	9 700	9 730	12 895
M. Overall height of boom	mm	3 060	3 045	2 920	3 255	3 055

\* Without shoe grouser

## Dimensions

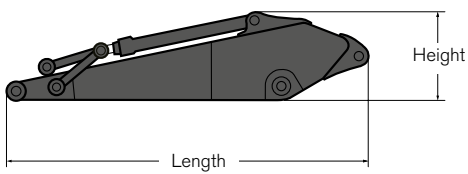
### • Boom



Description	Unit	EC210B LC prime		EC210B LR prime
		5.7 m	5.7 m HD	8.85 m
Length	mm	5 910	5 910	9 060
Height	mm	1 585	1 585	1 540
Width	mm	670	670	670
Weight	kg	1 785	1 890	2 360

\* Includes cylinder, pin and piping

### • Arm

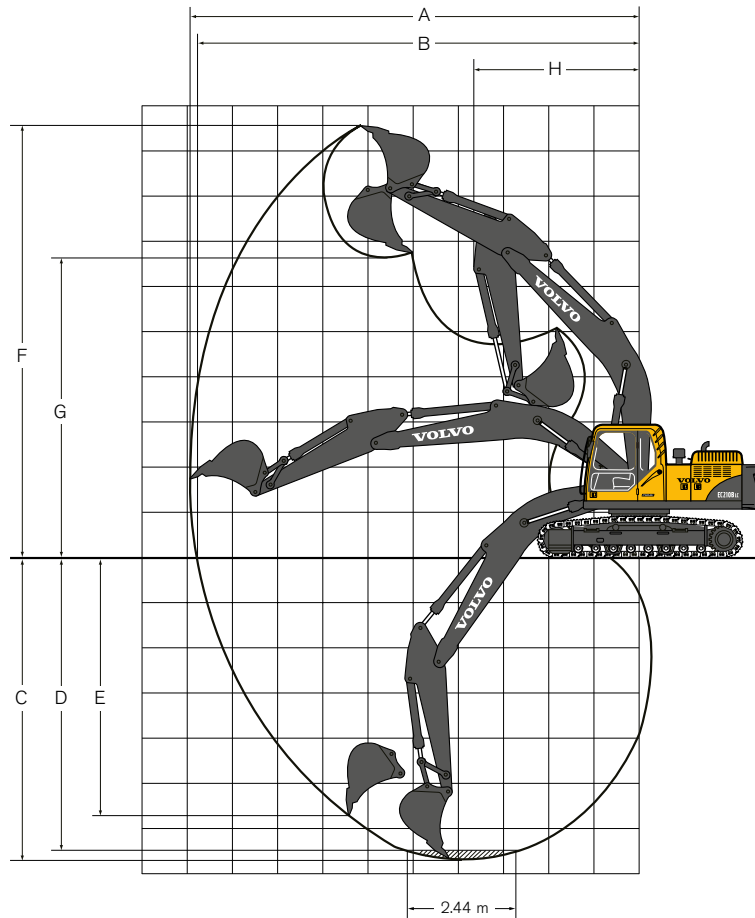


Description	Unit	EC210B LC prime					EC210B LR prime
		2.0 m	2.5 m HD	2.9 m	2.9 m HD	3.5 m	6.25 m
Length	mm	3 065	3 525	3 910	3 910	4 540	7 310
Height	mm	980	860	860	860	855	908
Width	mm	440	440	440	440	440	384
Weight	kg	970	975	1 000	1 085	1 110	1 295

\* Includes cylinder, piping and linkage



## Working ranges & digging forces



Machine with direct fit bucket	Unit	EC210B LC prime				EC210B LR prime
		5.7 m boom				8.85 m boom
		2.0 m arm	2.5 m arm	2.9 m arm	3.5 m arm	6.25 m arm
A. Max. digging reach	mm	9 090	9 540	9 940	10 395	15 810
B. Max. digging reach on ground	mm	8 910	9 350	9 750	10 240	15 710
C. Max. digging depth	mm	5 830	6 330	6 730	7 330	12 105
D. Max. digging depth (2.44 m level)	mm	5 560	6 110	6 510	7 150	12 000
E. Max. vertical wall digging depth	mm	4 800	5 520	5 830	6 170	11 185
F. Max. cutting height	mm	8 940	9 220	9 450	9 460	13 300
G. Max. dumping height	mm	6 180	6 430	6 650	6 695	10 950
H. Min. front swing radius	mm	3 800	3 670	3 650	3 630	5 210















Digging forces with direct fit bucket		Unit	EC210B LC prime				EC210B LR prime
			5.7 m boom				8.85 m boom
			2.0 m arm	2.5 m arm	2.9 m arm	3.5 m arm	6.25 m arm
Bucket radius		mm	1 470	1 470	1 470	1 470	1 250
Breakout force – bucket (Normal/Power boost)	SAE J1179	kN	137.0/150.0	122.6/130.4	122.6/130.4	122.6/130.4	67.9
	ISO 6015	kN	152.0/167.0	136.3/147.1	136.3/147.1	136.3/147.1	76.8
Tearout force – arm (Normal/Power boost)	SAE J1179	kN	134.0/146.0	110.4/117.2	95.6/103.0	88.0/93.0	44.1
	ISO 6015	kN	138.0/150.0	113.7/120.7	98.2/104.9	89.0/95.0	44.7
Rotation angle, bucket		deg	175	175	175	175	178

## 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.

### • EC210B LC prime

 Across undercarriage  Along undercarriage	Lifting hook related to ground level	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		Max. reach			
														Max. mm	
Boom 5.7 m + Arm 2.5 m + Shoe 600 mm + Counterweight 3 700 kg	6.0 m kg							*5 190	4 990			*5 280	*3 970	6 850	
	4.5 m kg					*6 610	*6 610	*5 680	4 830	5 230	3 370	5 120	3 290	7 590	
	3.0 m kg					*8 500	6 980	*6 510	4 590	5 130	3 280	4 650	2 970	7 980	
	1.5 m kg					*10 140	6 510	7 020	4 360	5 020	3 170	4 490	2 850	8 070	
	0 m kg					10 840	6 290	6 850	4 210	4 930	3 100	4 600	2 900	7 870	
	-1.5 m kg			*9 840	*9 840	10 800	6 260	6 790	4 160				5 060	3 170	7 360
	-3.0 m kg			*13 870	12 450	*9 930	6 350	6 870	4 230				6 170	3 840	6 460
	-4.5 m kg			*10 700	*10 700	*7 650	6 630						*6 720	5 770	4 960
Boom 5.7 m + Arm 2.9 m + Shoe 600 mm + Counterweight 3 700 kg	6.0 m kg							*4 800	*4 800			*4 160	3 620	7 300	
	4.5 m kg							*5 340	4 900	*5 040	3 420	*4 110	3 060	8 000	
	3.0 m kg					*7 950	7 130	*6 210	4 650	5 170	3 320	*4 220	2 780	8 370	
	1.5 m kg					*9 750	6 660	7 070	4 400	5 040	3 190	4 200	2 670	8 460	
	0 m kg			*4 920	*4 920	*10 740	6 320	6 870	4 220	4 940	3 100	4 290	2 710	8 270	
	-1.5 m kg			*9 380	*9 380	10 780	6 240	6 780	4 150	4 900	3 070	4 660	2 930	7 780	
	-3.0 m kg			*14 700	12 320	*10 260	6 300	6 820	4 180				5 530	3 460	6 940
	-4.5 m kg			*11 950	*11 950	*8 490	6 520						*6 490	4 820	5 570
Boom 5.7 m + Arm 3.5 m + Shoe 600 mm + Counterweight 3 700 kg	7.5 m kg											*3 840	*3 840	6 792	
	6.0 m kg									*4 340	3 520	*3 650	3 240	7 838	
	4.5 m kg							*4 720	*4 720	*4 530	3 450	*3 640	2 770	8 490	
	3.0 m kg			*10 660	*10 660	*7 000	*7 000	*5 640	4 700	*4 980	3 320	*3 760	2 520	8 838	
	1.5 m kg					*8 960	6 680	*6 630	4 410	5 020	3 170	3 840	2 420	8 919	
	0 m kg			*6 410	*6 410	*10 280	6 290	6 840	4 180	4 890	3 050	3 900	2 440	8 740	
	-1.5 m kg	*5 650	*5 650	*9 380	*9 380	10 680	6 130	6 700	4 060	4 820	2 980	4 190	2 600	8 284	
	-3.0 m kg	*9 220	*9 220	*13 850	12 000	*10 490	6 140	6 690	4 050	4 840	3 000	4 840	3 000	7 500	
	-4.5 m kg	*13 810	*13 810	*13 340	12 320	*9 280	6 290	*6 700	4 170				*6 290	3 950	6 260

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.

### • EC210B LC prime

 Across undercarriage  Along undercarriage	Lifting hook related to ground level	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		Max. reach		
														Max. mm
Boom 5.7 m + Arm 2.0 m + Shoe 600 mm + Counterweight 4 200 kg	7.5 m kg											*5 910	*5 910	4 930
	6.0 m kg							*5 660	5 160			*5 700	4 740	6 303
	4.5 m kg					*7 200	*7 200	*6 030	5 010			*5 730	3 830	7 101
	3.0 m kg					*9 040	7 180	*6 770	4 770	5 340	3 420	5 320	3 410	7 516
	1.5 m kg							7 300	4 550	5 240	3 330	5 130	3 260	7 611
	0 m kg					*10 810	6 600	7 160	4 420			5 280	3 340	7 400
	-1.5 m kg					*10 440	6 620	7 140	4 410			5 910	3 710	6 853
	-3.0 m kg			*12 440	*12 440	*9 260	6 780					*6 860	4 680	5 874
	-4.5 m kg													
Boom 5.7 m + Arm 2.5 m + Shoe 600 mm + Counterweight 4 200 kg	6.0 m kg							*5 190	*5 190			*5 280	4 220	6 850
	4.5 m kg					*6 610	*6 610	*5 680	5 130	*5 360	3 590	*5 360	3 520	7 590
	3.0 m kg					*8 500	7 420	*6 510	4 890	5 420	3 500	4 910	3 180	7 980
	1.5 m kg					*10 140	6 940	7 350	4 660	5 300	3 400	4 750	3 050	8 070
	0 m kg					*10 880	6 730	7 230	4 500	5 220	3 320	4 870	3 110	7 870
	-1.5 m kg			*9 840	*9 840	*10 800	6 690	7 180	4 460			5 350	3 400	7 360
	-3.0 m kg			*13 870	13 270	*9 930	6 790	7 260	4 520			*6 520	4 110	6 460
	-4.5 m kg			*10 700	*10 700	*7 650	7 070					*6 720	6 150	4 960
Boom 5.7 m + Arm 2.9 m + Shoe 600 mm + Counterweight 4 200 kg	6.0 m kg							*4 800	*4 800			*4 160	3 850	7 300
	4.5 m kg							*5 340	5 200	*5 040	3 650	*4 110	3 270	8 000
	3.0 m kg					*7 950	7 570	*6 210	4 950	*5 420	3 540	*4 220	2 970	8 370
	1.5 m kg					*9 750	7 040	*7 120	4 700	5 320	3 420	4 400	2 860	8 460
	0 m kg			*4 920	*4 920	*10 740	6 760	7 260	4 520	5 220	3 330	4 540	2 910	8 270
	-1.5 m kg			*9 380	*9 380	*10 890	6 680	7 170	4 450	5 190	3 300	4 930	3 140	7 780
	-3.0 m kg			*14 700	13 140	*10 260	6 740	7 210	4 480			5 850	3 710	6 940
	-4.5 m kg			*11 950	*11 950	*8 490	6 950					*6 490	5 150	5 570

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.

### • EC210B LR prime

 Across undercarriage  Along undercarriage	Lifting hook related to ground level	6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		Max. reach				
																Max. mm		
Boom 8.85 m + Arm 6.25 m + Shoe 800 mm + Counterweight 4 900 kg	12.0 m	kg														*820	*820	10 293
	10.5 m	kg														*750	*750	11 612
	9.0 m	kg									*1 380	*1 380				*710	*710	12 614
	7.5 m	kg							*2 070	*2 070	*1 960	1 620				*690	*690	13 372
	6.0 m	kg							*2 220	2 070	*2 160	1 560	*1 260	1 170		*690	*690	13 925
	4.5 m	kg					*2 620	2 580	*2 430	1 950	*2 290	1 480	*1 730	1 130		*700	*700	14 299
	3.0 m	kg	*4 280	*4 280	*3 470	3 180	*2 980	2 370	*2 660	1 800	2 390	1 390	1 920	1 070		*730	*730	14 507
	1.5 m	kg	*5 200	3 870	*4 030	2 830	*3 350	2 150	2 840	1 660	2 280	1 290	1 860	1 010		*770	*770	14 556
	0 m	kg	*5 920	3 430	4 440	2 540	3 410	1 950	2 700	1 530	2 190	1 210	1 800	950		*830	820	14 448
	-1.5 m	kg	5 810	3 160	4 210	2 340	3 250	1 800	2 590	1 420	2 120	1 140	1 760	910		*920	830	14 179
	-3.0 m	kg	5 660	3 020	4 080	2 210	3 140	1 710	2 520	1 350	2 070	1 090	*1 590	890		*1 040	870	13 740
	-4.5 m	kg	5 620	2 990	4 020	2 160	3 090	1 660	2 480	1 320	2 050	1 070				*1 210	940	13 113
	-6.0 m	kg	5 670	3 020	4 030	2 170	3 090	1 660	2 490	1 320	2 080	1 100				*1 480	1 070	12 270
	-7.5 m	kg	5 780	3 130	4 110	2 240	3 150	1 720	2 550	1 390						*1 930	1 290	11 160
	-9.0 m	kg	*5 300	3 310	*4 230	2 380	3 290	1 840								*2 860	1 680	9 691
	-10.5 m	kg	*4 060	3 600	*3 100	2 630										*2 990	2 560	7 653

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, common rail direct injection and charged air cooler  
2 stage air filter with indicator  
Air intake heater  
Electric engine shut-off  
Fuel filter and water separator with indicator  
Alternator, 24V/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 1  
Batteries, 2 x 12 V/150 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 control lockout lever

Cab, all-weather sound suppressed, includes:  
– Ashtray  
– Cup holder  
– Lighter  
– Tinted glass  
– 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

Greased and sealed track chain  
Track guards

## OPTIONAL EQUIPMENT

### Engine

Diesel coolant heater, 5 kW  
Oil bath pre-cleaner  
Dry pre-cleaner  
Fuel filler pump: 35 l/min  
Water separator with heater

### Electric

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

### Hydraulic system

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  
Oil leak (drain) line piping  
Quick fit piping  
Volvo hydraulic quick fit (S1, UQF21)  
Hydraulic oil, ISO VG 32  
Hydraulic oil, ISO VG 46

Hydraulic oil, ISO VG 68  
Boom floating function

### Superstructure

Counterweight,  
LC: 3 700/4,200 kg  
LR: 4 900 kg  
Undercover: 2.3 mm/4.5 mm HD

### Cab and interior

Fabric seat  
Fabric seat with heater and air suspension  
Air-conditioner without heater, manual  
Heater & air-conditioner, automatic  
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 500/600/700/800/900 mm with triple grousers  
Track shoes 600 mm HD with triple grousers  
Track shoes 700 mm with double grousers

### Digging equipment

Boom: 5.7 m GP  
5.7 m HD  
8.85 m LR  
Arm: 2.9/3.5 m GP  
2.0/2.5 m HD  
6.25 m LR

### Service

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











# 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 180 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.

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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