VOLVO EXCAVATORS

EC210BF PRIME

22.7–24.9 t 165 metric hp

RUGGED, DIFFICULT FOREST HARVESTING CONDITIONS DEMAND EXTREME BF SERIES PERFORMANCE.

Whether it's constructing new forest roads, harvesting and processing in the woods or at the landing, sorting or loading, through to finishing preparing the site for replanting, the new Volvo EC210BF forest machine does it all with ease, reliability and industry leading fuel efficiency, whatever the application.

We Listened
The new Volvo BF Series of heavy-duty forestry machine is exceptional performer. The versatile and nimble EC210BF is the forestry application carrier that is purpose built from the ground up. It is not just converted excavator.

Before this machine even got to the drawing boards, Volvo engineers went into the woods to find out exactly what you needed and wanted in a tracked forestry carrier. We listened first, and then designed and built a heavy-duty forestry solution that delivers high performance, reliability and industry leading fuel economy, even in the most demanding of forestry conditions.

This is a forestry application carrier that has been built for a purpose. To help make you successful in today's tough global forest market.

Purpose Built
Road building, harvesting, processing, sorting and loading on the landing or at the mill... It seems there is nothing that this new Volvo heavy-duty forestry carrier can't do.

Built to power through the tough stuff, with BF specific upper body and key component guarding, forestry protected, climate controlled operator cabin, a massive swing ring bearing with full guard and a forestry specific boom riser, boom and arm are of the key BF features.

All this is carried on a heavy-duty upper and lower frame and fully protected standard/high walker forestry undercarriage. Make no mistake about it; these machines are purpose built from the ground up for your forest industry.

Big Wood Bigger Power
With Volvo you will never have to sacrifice power and performance for fuel efficiency. The highly reliable Volvo six-cylinder turbocharged, direct injection, diesel engine (certified to meet current emission regulations) is perfectly matched with an optimized forestry specific hydraulic system. The result is higher performance, excellent control, superior swing power, faster cycle times and low maintenance costs. Choose the front-end attachment you want, and you can count on having big power for every application.

Built for Productivity
Operator safety and comfort are core values at Volvo. We make every effort to smooth out the rough stuff shift after shift resulting in increased productivity. Operator protection is enhanced with Lexan front and side windscreens designed to maximize safety and visibility. In addition, operator comfort is assured with an electronic climate control system, ergonomically placed controls and gauges, as well as superb sound and shock dampening. With Volvo there is more care built in.


VOLVO

PURPOSE BUILT. FOR A PURPOSE.

Rough mountainous terrain, mud, snow, frigid winter weather, sizzling summer heat, twenty-four hour-seven day a week operation... forestry is a demanding business. You need equipment that you can count on. Whatever the job, you can count on the rugged, dependable BF Series.

Operator Cabin
- Cab protection with FOG or FOPS
- Forestry cab with Margard window

Protection
- Swing room cover
- Swing ring cover
- Engine hood protection
- HD side door with net (left & right side)
- Right side corner guard

Upper Frame
- Boom riser on cylinder foot
- Heavy-duty under cover

Undercarriage and Lower Frame
- Standard/high-walker lower frame
- Bottom rollers on top (High-walker frame only)
- HD undercarriage with full track guard
- Heavy-duty belly cover

BF Boom and Arm
- Forestry specific heavy-duty boom and arm
- Arm & bucket cylinder protection
- Boom light protection
- Adapter stick for harvesting & processing
  - Upward with oil tank
  - Straight with oil tank
  - Downward

Hydraulics
- X1
  - Single acting for harvesting & processing with underneath piping
  - Double acting for log loading / road building
- X3 for slope & rotating with different piping routing depending on X1 selection

17 working lamps
- Boom: 4
- Cab: 4 front, 2 rear, 2 side, 1 bottom
- Right guard: 3
- Counterweight: 1 rear
- Xenon lamps as option for 4 boom, 2 cab front


VOLVO

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.


VOLVO

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, high-pressure fuel injectors, turbo charger and inter-cooler, 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 (148 metric hp)
Gross (SAE J1995)	123 kW (165 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
Light	17 EA

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	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	11.8 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	3.2/5.5 km/h
Gradeability	35° (70%)

Undercarriage

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

No. of track pads	2 x 49
Link pitch	190 mm
Shoe width, triple grouser	600/700/800 mm
Shoe width, triple grouser, HD	600 mm
Shoe width, double grouser	700 mm
No. of bottom rollers	2 x 9
No. of top rollers	2 x 2

Hydraulic system

The hydraulic system, also known as the "Automatic Sensing Work Mode," is designed for high-productivity, high-digging capacity, high-maneuvering precision and excellent fuel economy. The summation system, boom, arm and swing priority along with boom and arm regeneration provides 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 19 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/cm²)
Travel system	34.3 Mpa (350 kg/cm²)
Swing system	27.9 Mpa (285 kg/cm²)
Pilot system	3.9 Mpa (40 kg/cm²)

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 m arm	ø120 x 1 065 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

EC210BF with 5.7 m HD boom, 2.9 m HD arm, 920 l (678 kg) bucket and 3 700 kg counterweight

Description	Shoe width	Std. lower frame and track gauge 2 390 mm		Overall width
		Operating weight up to	Ground pressure	
Triple grouser	600 mm	22 960 kg	48.0 kPa (0.49 kg/cm²)	2 990 mm
	700 mm	23 150 kg	41.2 kPa (0.42 kg/cm²)	3 090 mm
	800 mm	23 425 kg	36.3 kPa (0.37 kg/cm²)	3 190 mm
Triple grouser HD	600 mm	23 130 kg	48.0 kPa (0.49 kg/cm²)	2 990 mm
Double grouser	700 mm	23 665 kg	42.2 kPa (0.43 kg/cm²)	3 090 mm

EC210BF with 5.7 m HD boom, 2.5 m HD arm, 920 l (678 kg) bucket and 4 200 kg counterweight

Description	Shoe width	Std. lower frame and track gauge 2 390 mm		Overall width
		Operating weight up to	Ground pressure	
Triple grouser	600 mm	23 350 kg	48.0 kPa (0.49 kg/cm²)	2 990 mm
	700 mm	23 540 kg	42.2 kPa (0.43 kg/cm²)	3 090 mm
	800 mm	23 815 kg	37.3 kPa (0.38 kg/cm²)	3 190 mm
Triple grouser HD	600 mm	23 520 kg	49.0 kPa (0.50 kg/cm²)	2 990 mm
Double grouser	700 mm	24 055 kg	43.1 kPa (0.44 kg/cm²)	3 090 mm

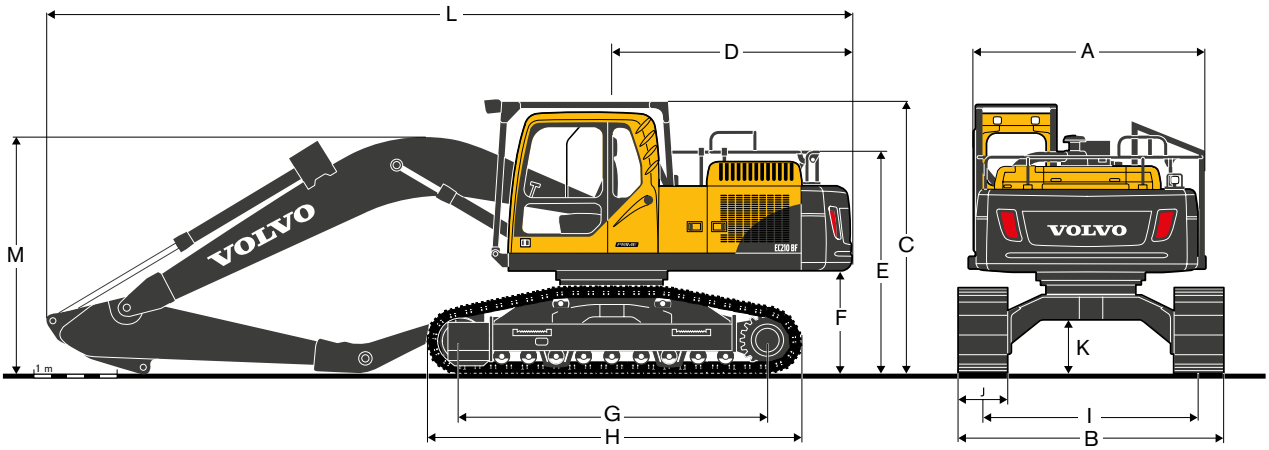
EC210BF with 5.7 m HD boom, 2.9 m HD arm, 920 l (678 kg) bucket and 3 700 kg counterweight

Description	Shoe width	High walker lower frame and track gauge 2 620 mm		Overall width
		Operating weight up to	Ground pressure	
Triple grouser	600 mm	23 905 kg	50.0 kPa (0.51 kg/cm²)	2 990 mm
	700 mm	24 095 kg	43.1 kPa (0.44 kg/cm²)	3 090 mm
	800 mm	24 370 kg	38.2 kPa (0.39 kg/cm²)	3 190 mm
Triple grouser HD	600 mm	24 075 kg	50.0 kPa (0.51 kg/cm²)	2 990 mm
Double grouser	700 mm	24 610 kg	44.1 kPa (0.45 kg/cm²)	3 090 mm

EC210BF with 5.7 m HD boom, 2.5 m HD arm, 920 l (678 kg) bucket and 4 200 kg counterweight

Description	Shoe width	High walker lower frame and track gauge 2 620 mm		Overall width
		Operating weight up to	Ground pressure	
Triple grouser	600 mm	24 295 kg	50.0 kPa (0.51 kg/cm²)	2 990 mm
	700 mm	24 485 kg	43.1 kPa (0.44 kg/cm²)	3 090 mm
	800 mm	24 760 kg	38.2 kPa (0.39 kg/cm²)	3 190 mm
Triple grouser HD	600 mm	24 465 kg	51.0 kPa (0.52 kg/cm²)	2 990 mm
Double grouser	700 mm	25 000 kg	44.1 kPa (0.45 kg/cm²)	3 090 mm

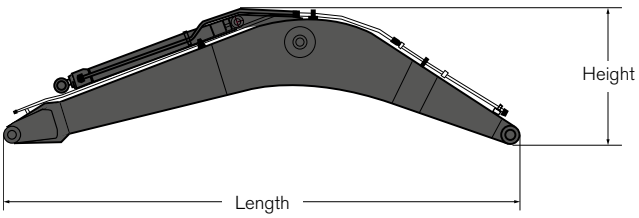
Dimensions



Description	Unit	STD lower frame		High walker lower frame	
		5.7 m HD boom		5.7 m HD boom	
		2.5 m HD arm	2.9 m HD arm	2.5 m HD arm	2.9 m HD arm
A. Overall width of superstructure	mm	2 700	2 700	2 700	2 700
B. Overall width	mm	2 990	2 990	3 220	3 220
C. Overall height of cab	mm	3 088	3 088	3 263	3 263
D. Tail swing radius	mm	2 850	2 850	2 850	2 850
E. Overall height of counterweight protector	mm	2 713	2 713	2 890	2 890
F. Counterweight clearance *	mm	1 048	1 048	1 223	1 223
G. Tumbler length	mm	3 660	3 660	3 660	3 660
H. Track length	mm	4 460	4 460	4 460	4 460
I. Track gauge	mm	2 390	2 390	2 620	2 620
J. Shoe width	mm	600	600	600	600
K. Min. ground clearance *	mm	485	485	655	655
L. Overall length	mm	9 747	9 700	9 740	9 650
M. Overall height of boom	mm	3 170	3 000	3 200	3 030

*without shoe grouser

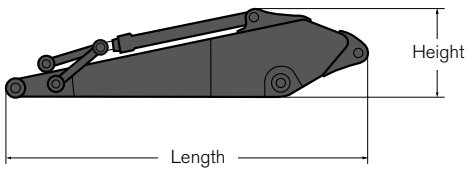
• Boom



Description	Unit	5.7 m HD
Length	mm	5 910
Height	mm	1 585
Width	mm	670
Weight	kg	1 890

* Includes cylinder pin and piping

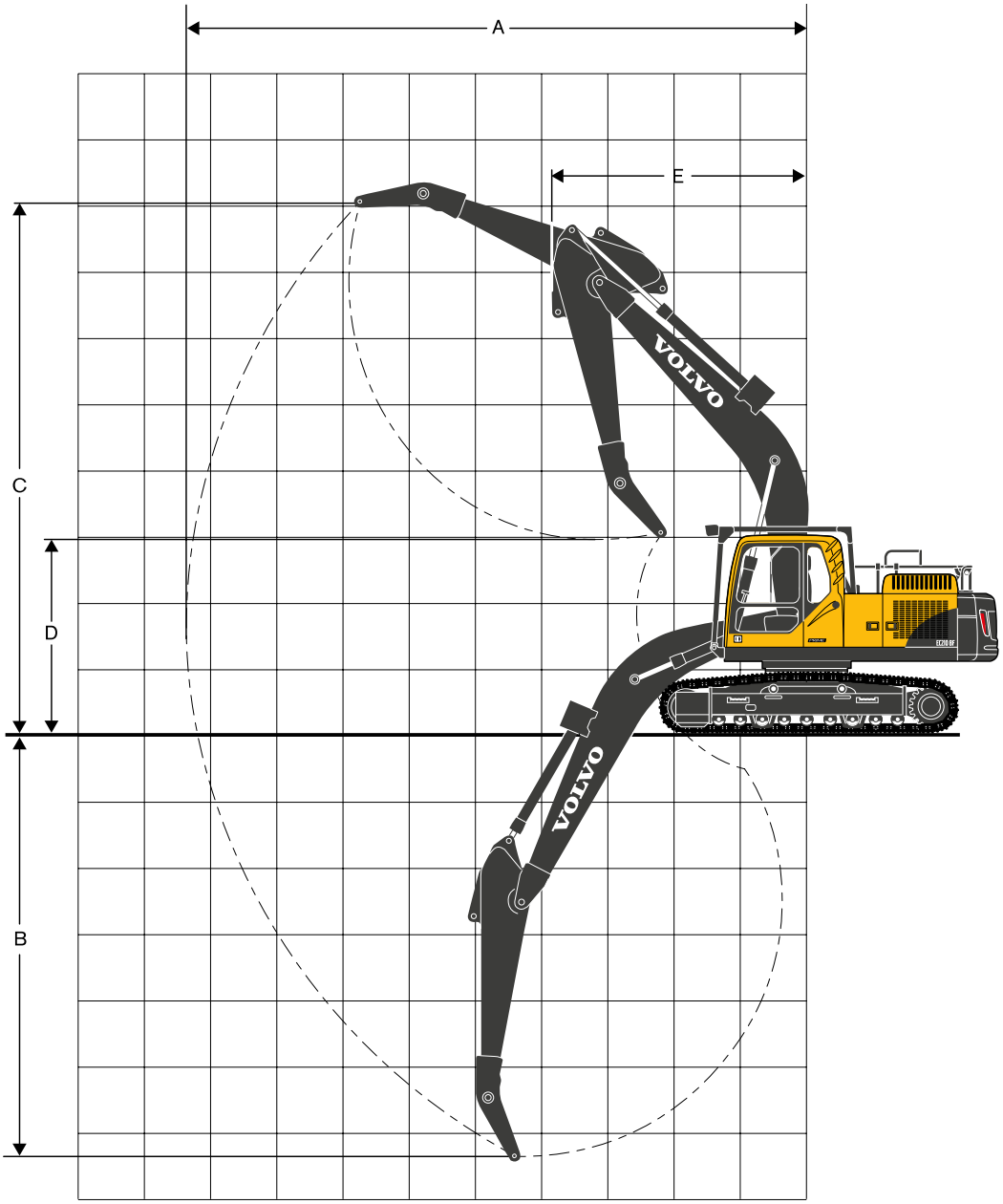
• Arm



Description	Unit	2.5 m HD	2.9 m HD
Length	mm	3 525	3 910
Height	mm	860	860
Width	mm	440	440
Weight	kg	975	1 085

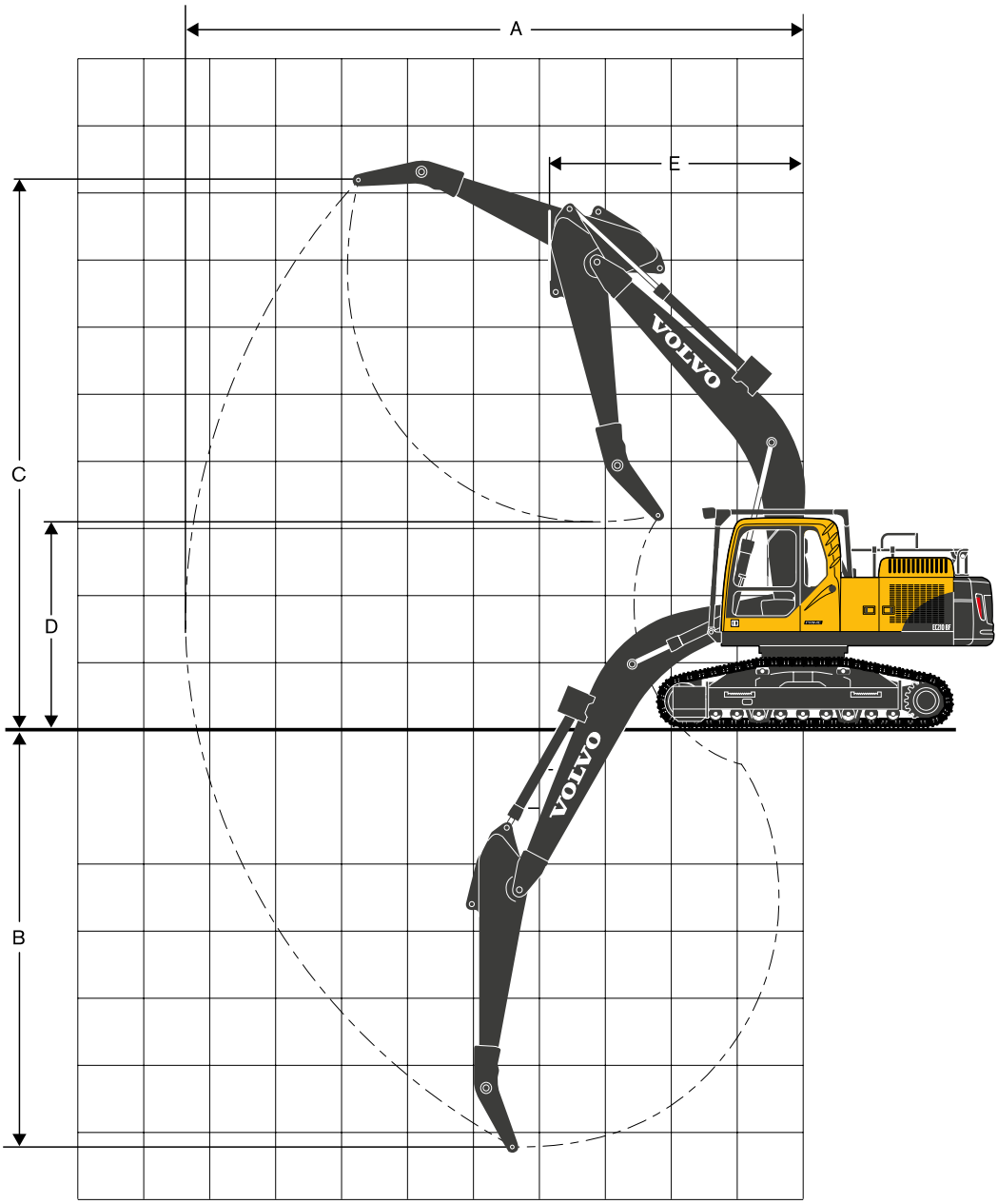
* Includes cylinder piping and linkage

Reach and lift height



STD lower frame type

Machine with direct fit bucket	Unit	5.7 m HD boom	
		2.5 m HD arm	2.9 m HD arm
A. Max. reach from swing center	mm	8 079	9 462
B. Max. depth from ground	mm	4 860	6 189
C. Max. lifting height	mm	7 898	9 261
D. Max. height of dumping	mm	4 275	2 941
E. Min. front swing radius	mm	3 670	3 645



High walker lower frame type

Machine with direct fit bucket	Unit	5.7 m HD boom	
		2.5 m HD arm	2.9 m HD arm
A. Max. reach from swing center	mm	8 079	9 462
B. Max. depth from ground	mm	5 035	6 014
C. Max. lifting height	mm	8 073	9 086
D. Max. height of dumping	mm	4 450	3 116
E. Min. front swing radius	mm	3 670	3 645

Lifting capacity EC210BF

At the arm end without attachment.
For lifting capacity including attachment, simply subtract actual weight of the attachment from the following values.

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		Maximum reach		
														Max. m
STD lower frame HD boom 5.7 m HD arm 2.5 m Triple grouser shoe 600 mm Counterweight 3 700 kg	7.5 m/kg											*5 000	*5 000	5.63
	6.0 m/kg							*4 830	*4 830			*4 890	4 040	6.86
	4.5 m/kg					*6 170	*6 170	*5 270	4 950	*4 930	3 370	*4 940	3 290	7.60
	3.0 m/kg					*7 870	7 090	*6 010	4 620	*5 190	3 250	4 820	2 920	7.98
	1.5 m/kg					*9 360	6 430	*6 770	4 310	5 190	3 110	4 640	2 780	8.07
	0.0 m/kg					*10 040	6 150	7 070	4 110	5 090	3 020	4 750	2 820	7.87
	-1.5 m/kg			*9 820	*9 820	*9 960	6 120	7 010	4 060			5 230	3 100	7.36
	-3.0 m/kg			*12 770	12 460	*9 150	6 280	*6 740	4 170			*6 050	3 800	6.47
	-4.5 m/kg			*9760	*9 760	*6 990	6 700					*6 130	5 840	4.97
STD lower frame HD boom 5.7 m HD arm 2.9 m Triple grouser shoe 600 mm Counterweight 3 700 kg	7.5 m/kg							*4 830	*4 830			*4 420	*4 420	6.17
	6.0 m/kg							*4 730	*4 730			*4 110	3 900	7.31
	4.5 m/kg							*5 260	*5 260	*4 960	3 690	*4 060	3 300	8.01
	3.0 m/kg					*7 860	7 700	*6 120	5 020	*5 330	3 580	*4 170	2 990	8.37
	1.5 m/kg					*9 630	7 140	*7 020	4 760	5 520	3 450	*4 450	2 880	8.46
	0.0 m/kg			*4 870	*4 870	*10 600	6 840	7 530	4 570	5 410	3 350	4 700	2 920	8.27
	-1.5 m/kg	*5 640	*5 640	*9 330	*9 330	*10 740	6 750	7 440	4 480	5 370	3 310	5 100	3 160	7.79
	-3.0 m/kg	*10 290	*10 290	*14 500	13 310	*10 110	6 810	7 470	4 510			6 060	3 730	6.94
	-4.5 m/kg			*11 760	*11 760	*8 350	7 030					*6 370	5 200	5.58
High Walker lower frame HD boom 5.7 m HD arm 2.5 m Double grouser shoe 700 mm Counterweight 3 700 kg	7.5 m/kg											*4 970	*4970	5.82
	6.0 m/kg							*4 860	*4 860			*4 890	4 160	6.97
	4.5 m/kg					*6 370	*6 370	*5 350	5 220	*4 950	3 590	*4 950	3 450	7.66
	3.0 m/kg					*8 090	7 440	*6 110	4 890	*5 240	3 460	*5 090	3 100	8.01
	1.5 m/kg					*9 490	6 830	*6 850	4 580	5 520	3 330	4 950	2 980	8.06
	0.0 m/kg					*10 070	6 580	*7 310	4 400	5 430	3 240	5 110	3 060	7.83
	-1.5 m/kg			*10 680	*10 680	*9 910	6 580	*7 320	4 360			5 690	3 390	7.27
	-3.0 m/kg			*12 500	*12 500	*8 980	6 760	*6 570	4 510			*6 080	4 230	6.32
	-4.5 m/kg					*6 490	*6 490					*6 080	*6 080	4.71
High Walker lower frame HD boom 5.7 m HD arm 2.9 m Double grouser shoe 700 mm Counterweight 3 700 kg	7.5 m/kg							*4 760	*4 760			*4 360	*4 360	6.35
	6.0 m/kg							*4 770	*4 770			*4 100	4 030	7.42
	4.5 m/kg					*6 200	*6 200	*5 360	*5 360	*4 990	3 910	*4 060	3 460	8.07
	3.0 m/kg					*8 110	8 070	*6 240	5 290	*5 380	3 790	*4 190	3 170	8.40
	1.5 m/kg					*9 800	7 540	*7 120	5 030	*5 820	3 660	*4 500	3 070	8.45
	0.0 m/kg			*5 390	*5 390	*10 660	7 260	*7 720	4 860	5 750	3 570	5 040	3 140	8.23
	-1.5 m/kg	*6 220	*6 220	*9 970	*9 970	*10 710	7 200	*7 870	4 780	5 720	3 550	5 520	3 430	7.70
	-3.0 m/kg	*10 930	*10 930	*14 240	14 180	*9 970	7 270	*7 350	4 830			*6 180	4 100	6.81
	-4.5 m/kg			*11 260	*11 260	*7 980	7 520					*6 380	5 900	5.35

Notes:
1. Machine in “Fine Mode-F” (Power Boost) for lifting capacities.
2. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift Capacity Standards.
3. They 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 EC210BF

At the arm end without attachment.
For lifting capacity including attachment, simply subtract actual weight of the attachment from the following values.

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		Maximum reach		
		Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Max. m
STD lower frame HD boom 5.7 m HD arm 2.5 m Triple grouser shoe 600 mm Counterweight 4 200 kg	7.5 m/kg											*5 000	*5 000	5.63
	6.0 m/kg							*4 830	*4 830			*4 890	4 340	6.86
	4.5 m/kg					*6 170	*6 170	*5 270	*5 270	*4 930	3 640	*4 940	3 550	7.60
	3.0 m/kg					*7 870	7 610	*6 010	4 980	*5 190	3 520	*5 070	3 170	7.98
	1.5 m/kg					*9 360	6 950	*6 770	4 660	5 520	3 380	4 940	3 020	8.07
	0.0 m/kg					*10 040	6 670	*7 270	4 460	5 420	3 280	5 060	3 070	7.87
	-1.5 m/kg			*9 820	*9 820	*9 960	6 640	*7 350	4 410			5 570	3 370	7.36
	-3.0 m/kg			*12 770	*12 770	*9 150	6 800	*6 740	4 520			*6 050	4 120	6.47
	-4.5 m/kg			*9 760	*9 760	*6 990	*6 990					*6 130	*6 130	4.97
STD lower frame HD boom 5.7 m HD arm 2.9 m Triple grouser shoe 600 mm Counterweight 4 200 kg	7.5 m/kg							*4 830	*4 830			*4 420	*4 420	6.17
	6.0 m/kg							*4 730	*4 730			*4 110	*4 110	7.31
	4.5 m/kg							*5 260	*5 260	*4 960	3 960	*4 060	3 540	8.01
	3.0 m/kg					*7 860	*7 860	*6 120	5 370	*5 330	3 850	*4 170	3 230	8.37
	1.5 m/kg					*9 630	7 660	*7 020	5 110	*5 770	3 720	*4 450	3 110	8.46
	0.0 m/kg			*4 870	*4 870	*10 600	7 360	*7 660	4 920	5 740	3 620	*4 960	3 160	8.27
	-1.5 m/kg	*5 640	*5 640	*9 330	*9 330	*10 740	7 270	*7 880	4 840	5 700	3 580	5 420	3 410	7.79
	-3.0 m/kg	*10 290	*10 290	*14 500	14 280	*10 110	7 330	*7 470	4 870			*6 140	4 020	6.94
	-4.5 m/kg			*11 760	*11 760	*8 350	7 550					*6 370	5 590	5.58
High Walker lower frame HD boom 5.7 m HD arm 2.5 m Double grouser shoe 700 mm Counterweight 4 200 kg	7.5 m/kg											*4 970	*4 970	5.82
	6.0 m/kg							*4 860	*4 860			*4 890	4 460	6.97
	4.5 m/kg					*6 370	*6 370	*5 350	*5 350	*4 950	3 860	*4 950	3 710	7.66
	3.0 m/kg					*8 090	7 960	*6 110	5 240	*5 240	3 730	*5 090	3 350	8.01
	1.5 m/kg					*9 490	7 340	*6 850	4 940	*5 590	3 590	5 250	3 230	8.06
	0.0 m/kg					*10 070	7 100	*7 310	4 750	5 760	3 510	5 430	3 320	7.83
	-1.5 m/kg			*10 680	*10 680	*9 910	7 100	*7 320	4 720			*5 810	3 670	7.27
	-3.0 m/kg			*12 500	*12 500	*8 980	7 280	*6 570	4 860			*6 080	4 560	6.32
	-4.5 m/kg					*6 490	*6 490					*6 080	*6080	4.71
High Walker lower frame HD boom 5.7 m HD arm 2.9 m Double grouser shoe 700 mm Counterweight 4 200 kg	7.5 m/kg							*4 760	*4 760			*4 360	*4360	6.35
	6.0 m/kg							*4 770	*4 770			*4 100	*4 100	7.42
	4.5 m/kg					*6 200	*6 200	*5 360	*5 360	*4 990	4 180	*4 060	3 700	8.07
	3.0 m/kg					*8 110	*8 110	*6 240	5 640	*5 380	4 060	*4 190	3 410	8.40
	1.5 m/kg					*9 800	8 060	*7 120	5 390	*5 820	3 930	*4 500	3 310	8.45
	0.0 m/kg			*5 390	*5 390	*10 660	7 780	*7 720	5 210	6 080	3 840	*5 050	3 390	8.23
	-1.5 m/kg	*6 220	*6 220	*9 970	*9 970	*10 710	7 720	*7 870	5 140	6 060	3 820	5 840	3 690	7.70
	-3.0 m/kg	*10 930	*10 930	*14 240	*14 240	*9 970	7 790	*7 350	5 180			*6 180	4 400	6.81
	-4.5 m/kg			*11 260	*11 260	*7 980	*7 980					*6 380	6 310	5.35

Notes:
1. Machine in “Fine Mode-F” (Power Boost) for lifting capacities.
2. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift Capacity Standards.
3. They 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

Fuel filler pump: 50 l/min with automatic shut-off
Alternator, 28 V/80 A

Electric / Electronic control system

Working lamps: 5 service lamps and 12 work lamps
Electric power switch for attachment

Hydraulic system

Max. hydraulic flow: 2 x 200 + 1 x 19 l/min
Attachment operating pressure: 32,4/34,3 MPa (320/350 kg/cm²)

Superstructure

Counterweight, 3,700 kg
Side impact protection
RH front guard
Swing motor cover
Heavy duty under protection for superstructure

Cab and interior

High impact protection by polycarbon wind screen (12 mm) and 10 mm RH side window
Falling object guard (FOG or FOPS)
Air suspension seat with heater
Heavy duty steel compartment doors
Control joystick with proportional control

Undercarriage

Heavy duty full track guards
Swing ring cover
Heavy duty belly cover

OPTIONAL EQUIPMENT

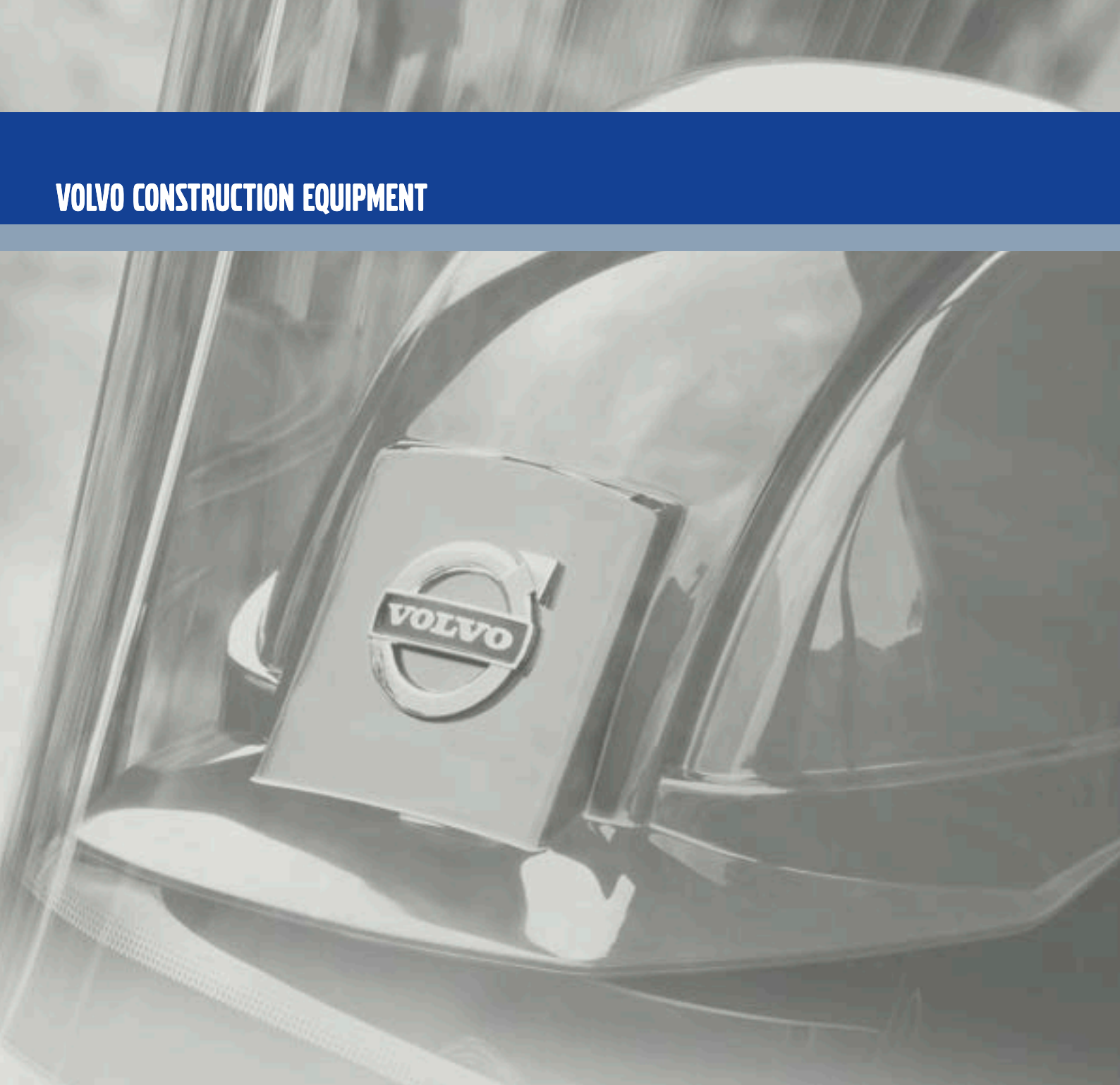
Hose rupture valve on boom cylinders
Overload warning device
Boom cylinder protection
Boom riser
6 of Xenon lights
Straight or Goose neck adapter for harvester/processor attachment
Hydraulic piping with return filter for harvester/processor head
Boom cylinders' protection plate

ATTACHMENTS OPTIONAL EQUIPMENT FOR FORESTRY APPLICATIONS

Harvester head with control system (preparedness for Ponsse heads)
Processor head with control system
Felling head, dangle type
Log grapple
Stump harvesting head
Planting attachment
Bucket

Attachments are not supplied by Volvo CE, local dealer or supplier installations.

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.

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Ref. No. 20023977-C
2013.05
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