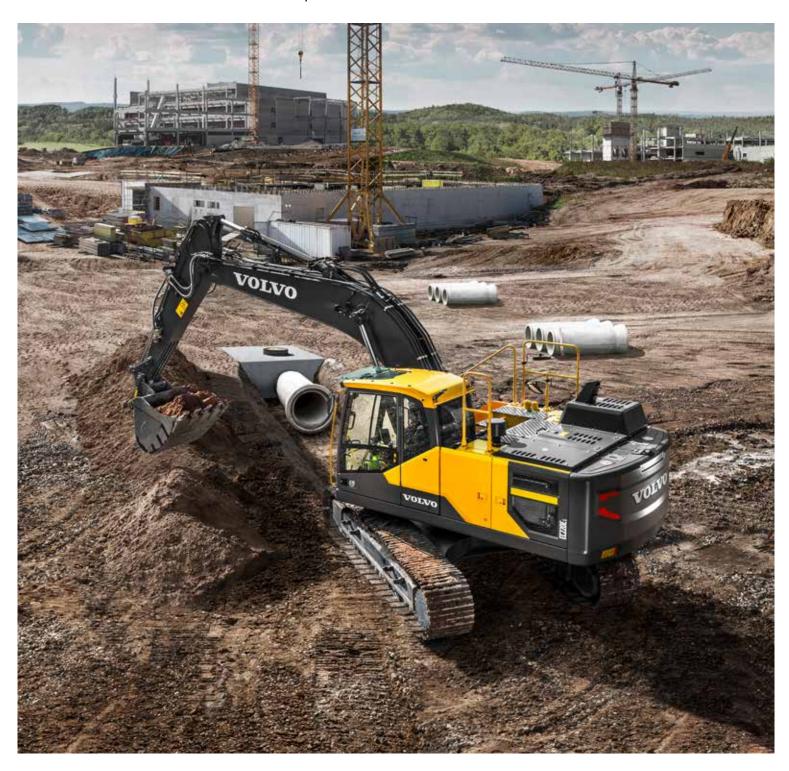
EC220E

Volvo Excavators 20.7-25.8 t 175 hp



Best in Class Efficiency

The EC220E builds on its efficiency reputation from the D-Series by ensuring all components work together and complement each other. The enhancements deliver the best in class fuel efficiency while not compromising on power – reducing emissions and consumption, while increasing productivity.

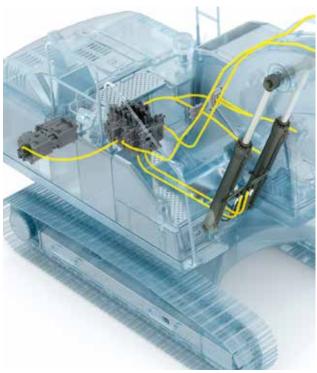
Volvo engine

Featuring proven advanced technology, and built on decades of experience, Volvo's robust D6 Stage V engine boasts more power - while reducing both fuel consumption and emissions to deliver superior quality, reliability and durability.



Increased power

The increased pump input power creates a highly responsive operation resulting in greater productivity and faster cycle time.



Boom float function

With the boom float function, the pump power for boom lowering can be saved or used for other functions, reducing the cycle time. Also, the grading operation can be made easier.

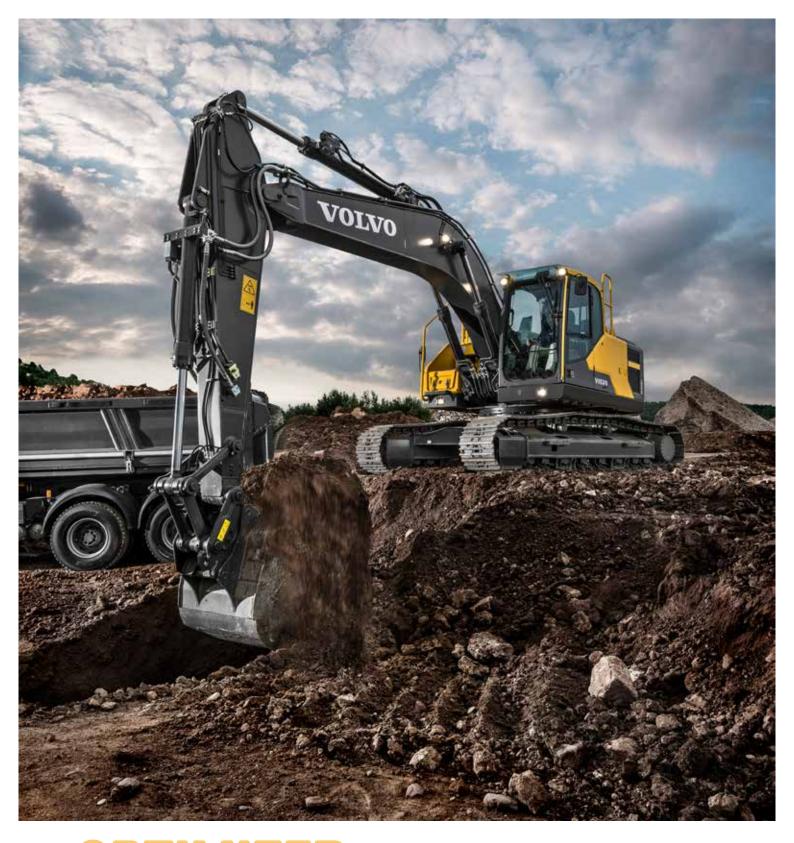


Main Control Valve and Software

The valve is compatible with software in the machine to aid controllability, by providing smooth and easy operation. In addition to increased swing force, the EC220E also comes with a boom swing priority valve; this enhances controllability of the swing and boom operation — making it ideal for loading trucks.

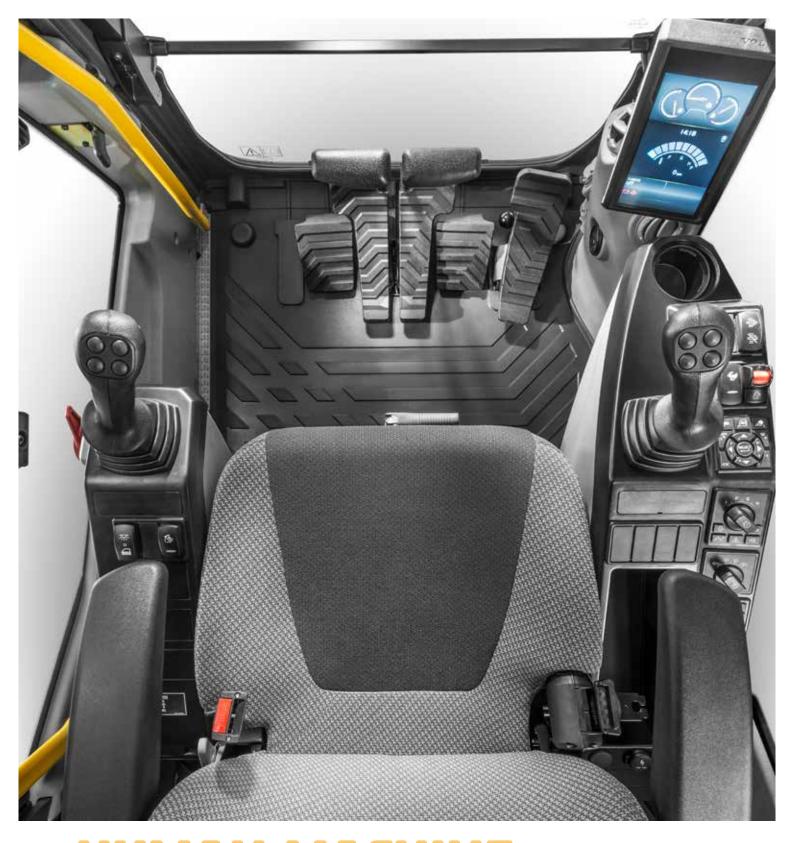
Auto engine shutdown

To reduce fuel consumption, the engine will automatically switch off when the machine is inactive for a pre-set amount of time (five minutes is the default setting).



OPTIMIZED HYDRAULICS

The hydraulics system, combined with the fully electronic control system and advanced ECO mode, has been optimized to work in harmony with the D6 Stage V engine, to match the engine power, reduce power loss and improve controllability and response time.



HUMAN MACHINE INTERFACE (HMI)

All machine interfaces – including joysticks, keypad, panel and larger LCD monitor – are ergonomically designed for optimum control and efficiency, resulting in increased productivity and workplace wellbeing. The number of switches have been simplified and climate control integrated into the keypad for easy adjustments.

First Choice for Comfort

The cab design puts the operator in the drivers' seat to control personal specifications - from climate control, to short-cut functions on the joystick. The spacious cab allows the operator to move comfortably, to create a working environment that naturally promotes increased productivity.

Side view camera

As well as the rear view camera, side view camera can be optionally available for customers' comfort. Both views are displayed on the colour monitor, creating a safer working environment, protecting the operator and personnel on the ground.



Short-cut key

For added convenience, functions such as windshield wipers, cameras, auto-mute or power max function can all be assigned a short-cut button on the joystick. This allows the operator to select a function during the application without disruption.



Bluetooth®

To aid operator convenience and support better productivity, you can now connect a Bluetooth device to the machine enabling the handsfree function.



Seatbelt warning alarm

If the seatbelt is not buckled when the ignition key is turned, an alarm is triggered in intervals along with a continuous visual alert. This emphasises our priority for operator safety.



Building on Foundations of Trust and Quality

Quality is one of Volvo's core values and it goes hand-in-hand with reliability and durability. The EC220E pays particular attention to having all the components working at a high level of capacity but also being built to stand the test of time – providing the customer and operator with peace of mind.

ROPS

The cab features ROPS – this reinforced steel structure ensures the operator is protected in the unlikely event of the machine rolling over, while it also meets the ISO standards for safety.



Boom and Arm

The robust design includes internal plates positioned to support pressure points during the range of applications. This helps disperse the stress from high-pressure areas of the boom and arm, to ensure maximum productivity time after time, during the most demanding applications.



Lower frame

The intelligently designed X-shape lower frame enables even weight distribution increasing stability and durability preventing damage from rock and debris.



Narrow and Heavy-duty (NH) Undercarriage

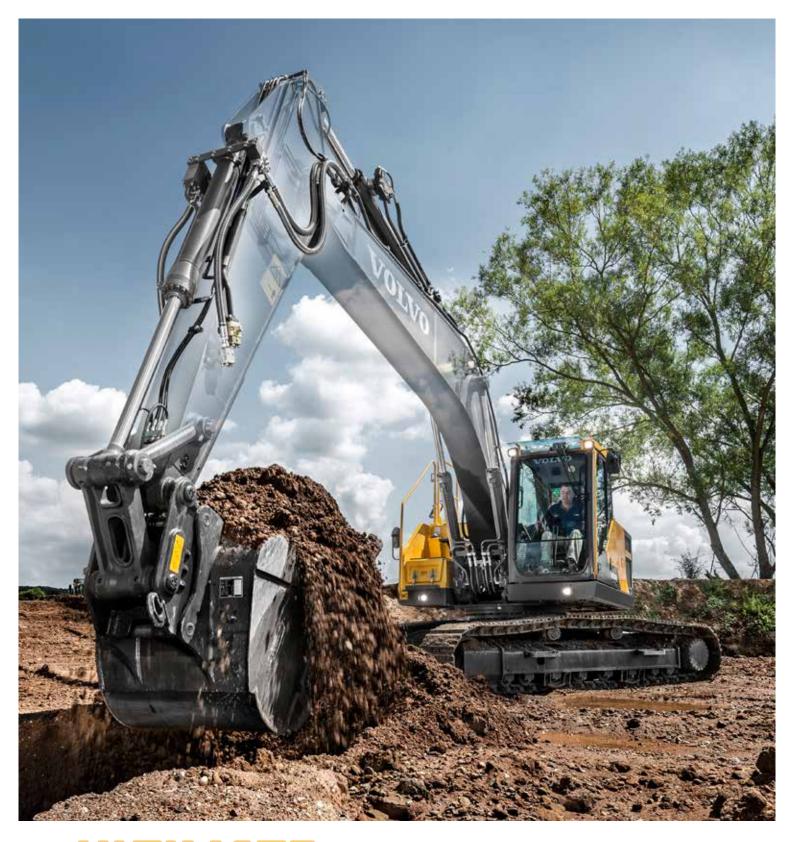
The EC220E NH's oversized and heavy-duty undercarriage creates excellent tractive force for improved durability and reliability in demanding terrain. A robust undercarriage increases the service life of the machine.





BUILT To last

Working in tough conditions means every component matters - this is why Volvo pays extra attention to each detail during the manufacturing and product design processes. Silicone caulking is used to prevent rust, waterproof harnesses and connections are installed - as well as heavy-duty door hinges and bolted-on protection for the frame-work lights.



ULTIMATE TOOL CARRIER

The machine can be adjusted to take a wide variety of hydraulic lines, which are factory fitted with breaker and shear piping (X1), as well as rotator piping (X3). State-of-theart auxiliary lines provide the correct flow and pressure for special attachments such as mowers and grinders, shears, crushers and tilt rotators among other attachments. You can choose between the one or two pump flow to maximize profits and productivity.

Customer Choice

Creating a machine that can adapt to a number of attachments increases productivity and reduces cycle time. The EC220E not only manages to achieve this versatility but it is a machine that incorporates the same high quality performance across its entire menu of applications – meaning the operator is safe in the knowledge that with Volvo there is no better option.

Attachment Management System

The password protected management system allows storage for up to 20 different attachments. It pre-sets and permits hydraulic flow and pressure to be adjusted within the cab, which ensures the use of various attachments for increased versatility.



Extra piping

An additional piping solution is available on the breaker and shear piping (X1), accommodating the use of tilt/rotator attachments.



Electrical pedal

The electric pedal offers precise control to allow the operator to use a wider variety of attachments.



Response mode

The attachment response sensitivity can be adjusted using the keypad. This allows the operator to tailor machine response for maximum impact in different environments.



Proactive Maintenance Solutions

Maintaining your machine will ensure you get the maximum lifetime and productivity. This is why Volvo have made this process easy – developing it to be fast, regular and safe.

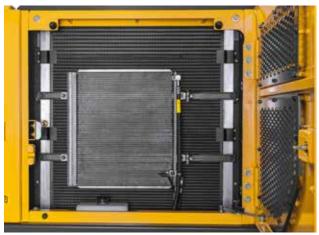
Full size fold-able guard rails

Multiple sturdy handrails and fold-able guardrails provide safe and easy access to the superstructure for inspection and maintenance. The fold-able guardrail is to minimize transportation height when it is folded.



Single layer cooling system

The radiator, charged air cooler and hydraulic oil cooler are situated side-by-side on a single layer, to maximize efficiency, reduce blockages and aid cleaning. The system is easily accessed from ground level by simply opening the side door.



Service interval alerts

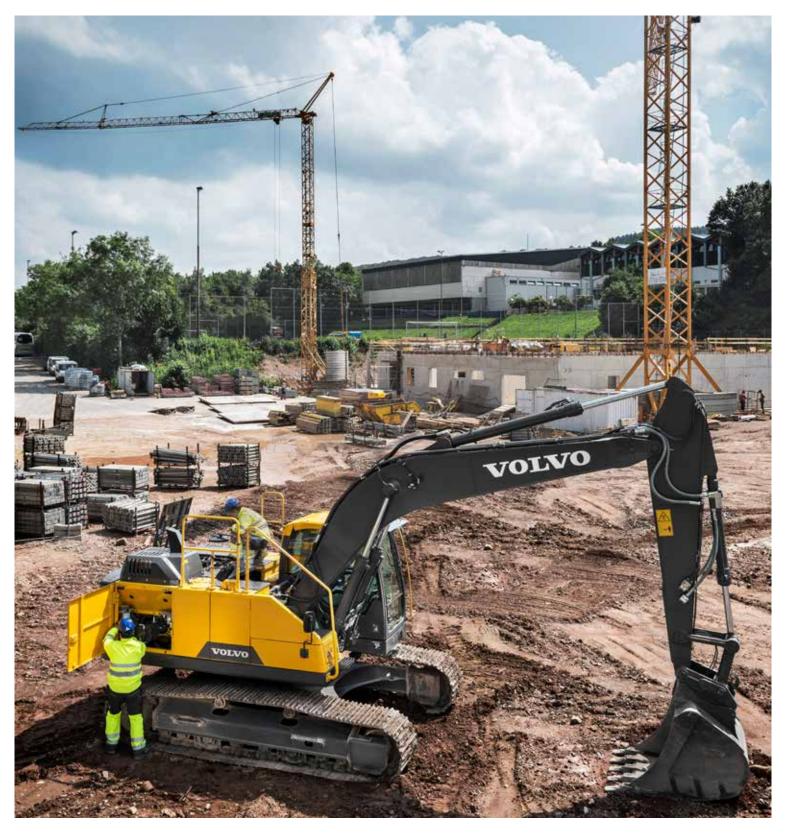
Real-time service alerts are displayed on the colour monitor to enable diagnostic checks. Separate service intervals include – the engine oil/ filter, fuel filter/water separator, hydraulic oil and hydraulic oil filter. This ensures peace of mind and maximum uptime.



Anti-slip steel plates

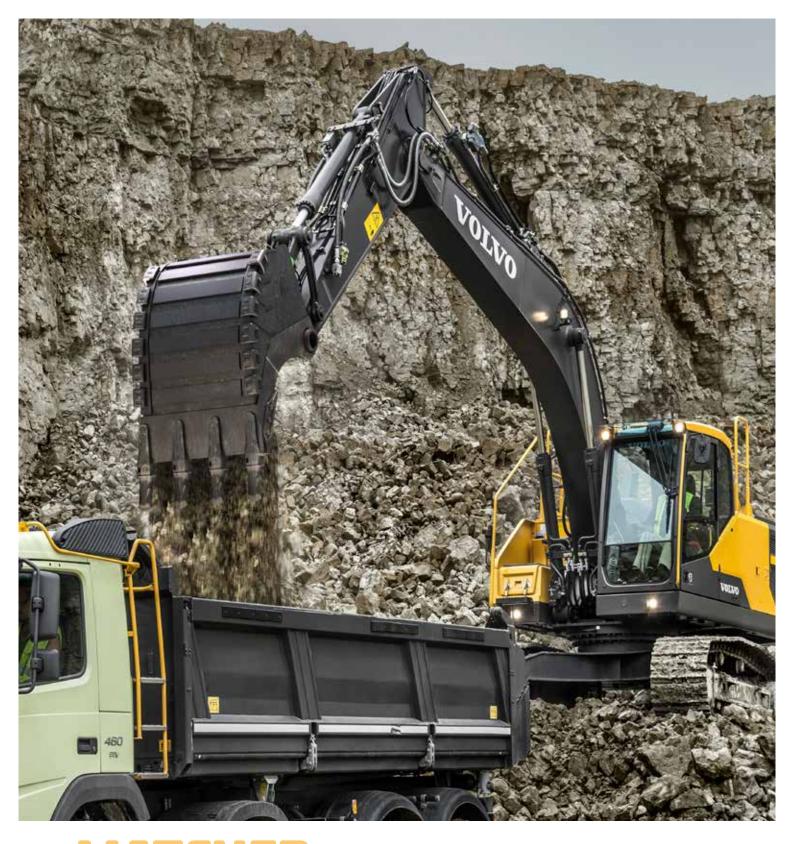
Well-positioned punched anti-slip plates provide superior grip and durability. The design facilitates easy cleaning while promoting safety.





GROUPED FILTERS

Maintaining a good level of inspection is important for machine longevity and that is why Volvo has grouped filters together, making them easily accessible for regular checks to maximize machine uptime.



MATCHED ATTACHMENTS

Volvo's durable attachments have been purpose-built to work in perfect harmony with Volvo machines, forming one solid, reliable unit. With functions and properties ideally matched, Volvo attachments are an integrated part of the excavator for which they're intended.

Mix and match for a superior fit

Maximize your productivity and profitability with Volvo's EC220E crawler excavator and a range of durable attachments. Increase your versatility, access more applications and perform a variety of tasks – all while experiencing faster cycle times and excellent control.

Buckets - GP/HD/XD

Volvo's buckets are the perfect tool for digging and re-handling inl all conditions from soft, medium and hard materials. Heavy-duty buckets are intended for productive digging in compact materials. All provide maximum productivity and long life and feature original Volvo wear components.



Breakers HB21, HB22

The HB-Series of hydraulic breakers are optimized to the specific weights of Volvo machines and tailored to Volvo quick couplers for swift, safe and simple attachment changes. They are available with a full assortment of tools.



Quick Coupler

Volvo offers a full range of quick couplers, from its dedicated Volvo S-type coupler to the Steelwrist® ones. Both couplers feature Front Pin Lock technology, which allows supreme safety when changing attachments. Those innovative couplers are not only designed to fit perfectly with Volvo excavators but they also complies with the latest safety regulations of ISO 13031 and EN474-1. Steelwrist® is a registered trademark of Steelwrist AB



Tilt Rotator

Volvo's tilt rotator can be ordered factory installed with multifunctional joysticks and color display that's fully integrated into the machine's system. The new series of Volvo XD excavator buckets are perfectly matched to the factory installed tilt rotator.



Improved total cost of ownership

Boom and Arm

To achieve the best performance, select the most suitable boom and arm configuration combination for your requirements.

ULTIMATE TOOL CARRIER

Designed to not only be compatible with a range of attachments, but also to enhance their performance by easily and quickly switching to accommodate any needs.

OPTIMIZED HYDRAULICS

Designed to perfectly match the engine power, reduce power loss, and improve controllability and response time.

AdBlue[®]

Volvo offers a total AdBlue solution that is quality assured, cost efficient and easily accessible. Contact your Volvo dealer for more information.

® = registered trademark of the Verband der Automobilindustrie e.V. (VDA)

Boom float function

The pump power for boom lowering can be saved or used for other functions, reducing the cycle time. Also, the grading operation can be made easier.



The password protected management system allows storage for up to 20 different attachments. It pre-sets and permits hydraulic flow and pressure to be adjusted within the cab.

Full size fold-able guard rails

Multiple sturdy handrails and foldable guardrails provide safe and easy access to the super-structure for inspection and maintenance.

Side view camera

Covers the visual blind spot at the side of machine. View is displayed on the colour monitor, creating a safer working environment, protecting the operator and personnel on the ground.

VOLVO **BUILT TO LAST** All detail – no matter how small - is overlooked. Silicone caulking is used to prevent rust, waterproof harnesses and connections have been installed - as well as heavy-duty door hinges and bolted-on protection for the framework lights.

HMI

All machine interfaces are ergonomically positioned and designed for optimum control and efficiency.

Bluetooth®

Bluetooth and hands-free functions have been added, allowing the operator to connect to wireless functions for increased comfort and safety.

Short-cut key

For ease of use, functions such as windshield wipers, cameras, automute or power max function can all be assigned a short-cut button on the joystick.

Volvo engine

Volvo's efficient D6 Stage V engine gives you more power while consuming less fuel for low emission levels.

GROUPED FILTERS

Filters are well grouped and easily accessible from the ground level. This facilitates the speed and ease of servicing.

Adding value to your business

Being a Volvo customer means having a complete set of services at your fingertips. Volvo can offer you a long-term partnership, protect your revenue and provide a full range of customer solutions using high quality parts, delivered by passionate people. Volvo is committed to increasing the positive return on your investment and maximising uptime.

Complete Solutions

Volvo has the right solution for you. So why not let us provide all your needs throughout the whole life cycle of your machine? By listening to your requirements, we can reduce your total cost of ownership and increase your revenue.



Perform with precision

Unlock the full potential of your machine's productivity with Dig Assist, the intelligent and intuitive technology which allows the operator to quickly and easily manage all excavator functions from a single in-cab system. Powered by the high resolution in-cab Volvo Co-Pilot, and with 2D, In-Field Design and 3D software packages available, Dig Assist gives operators access to a range of tools to help them achieve unmatched control, accuracy and uptime.



Genuine Volvo Parts

Our attention to detail is what makes us stand out. This proven concept acts as a solid investment in your machine's future. Parts are extensively tested and approved because every part is vital for uptime and performance. Only by using Genuine Volvo Parts, can you be sure that your machine retains the renowned Volvo quality.



Service Network

In order to respond to your needs faster, a Volvo expert is on their way to your job site from one of our Volvo facilities. With our extensive infrastructure of technicians, workshops and dealers, Volvo has a comprehensive network to fully support you using local knowledge and global experience.





CUSTOMER SUPPORT AGREEMENTS

The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of your service costs.

Volvo EC220E in detail

Engine

The latest generation, Volvo engine Stage V emissions compliant diesel engine fully meets the demands of the latest, emsissions regulations. Featuring Volvo Advanced Combustion Technology (V-ACT), it is designed to deliver superior performance and fuel efficiency. The engine uses precise, high pressure fuel injectors, turbo charger and air-to-air intercooler, and electronic engine controls to optimize machine performance. Air Eilher: 3-stage with precleaper

Air Filter: 3-stage with precleaner 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	D6J
Max power at	r/min	1800
Net, ISO 9249/SAE J1349	kW	128
	hp	174
Gross, ISO 14396/SAE J1995	kW	129
	hp	175
Max torque	Nm	849
at engine speed	r/min	1350
No. of cylinders		6
Displacement	1	5.7
Bore	mm	98
Stroke	mm	126

Electrical system

Well protected high-capacity electrical system. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard.

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

Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	140
Alternator	V/A	28/80
Start motor	V - kW	24 - 5.5

Travel System

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. drawbar pull	kN	183
Max. travel speed (low)	km/h	3.5
Max. travel speed (high)	km/h	5.7
Gradeability	0	35

Swing system

The swing system uses an axial piston motors, driving a planetary gearbox for maximum torque. An automatic holding brake and antirebound valve are standard

Max. slew speed	r/min	11.1
Max. slew torque	kNm	83

Undercarriage Robust X-shaped frame with greased and sealed track chains as standard EC220EL Track shoe 2 x 49 Link pitch mm 190 500/600/700/ Shoe width, triple grouser mm 800/900 Shoe width, triple grouser (HD) 600 mm 700 Shoe width, double grouser mm Shoe width, single grouser 600 mm 2 x 8 Bottom rollers Top rollers 2 x 2 EC220ENL 2 x 49 Link pitch 500/600/700 Shoe width, triple grouser mm Shoe width, triple grouser (HD) Shoe width, double grouser 700 mm Bottom rollers 2 x 8 Top rollers 2 x 2 EC220EN Track shoe 2 x 46 Link pitch 190 600/700/800/ Shoe width, triple grouser mm 900 600 Shoe width, triple grouser (HD) mm 2 x 7 Bottom rollers Top rollers 2 x 2 EC220ENH 2 x 45 Track shoe 203 Link pitch mm 500/600/700 Shoe width, triple grouser mm Bottom rollers 2 x 7

Top rollers

2 x 2

Hydraulic system

The hydraulics system, combined with the fully electronic control system and advanced ECO mode, has been optimized to work in harmony with engine to match the engine power, reduce power loss and improve controllability and response time.

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. **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

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: 2 x variable displacement axial piston pumps

Maximum flow	l/min	2 x 207
Pilot pump: Gear pump		
Maximum flow	l/min	1 x 18
Relief value setting pressure		
Implement	MPa	34.3 / 36.3
Travel circuit	MPa	34
Slew circuit	MPa	28
Pilot circuit	MPa	4

Travel: Variable displacement axial piston motor with mechanical brake Slew: Fixed displacement axial piston motor with mechanical brake

Hydraulic Cylinders

	2
ø x mm	125 x 1 235
	1
ø x mm	160 x 1 070
	1
ø x mm	135 x 1 540
	1
ø x mm	120 x 1 065
	1
ø x mm	100 x 865
	ø x mm ø x mm

Service Refill	-	
Fuel tank	1	320
DEF/AdBlue® tank	I	27
Hydraulic system, total	1	290
Hydraulic tank	I	140
Engine oil	1	25
Engine coolant	I	35
Slew reduction unit	1	6
Travel reduction unit	I	2 x 5.8

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

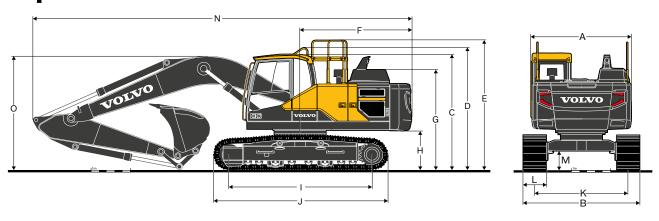
Integrated air-conditioning and heating system: The pressurized and filtered cab air is supplied by an automatically-controlled fan. The air is distributed throughout the cab from 14 vents.

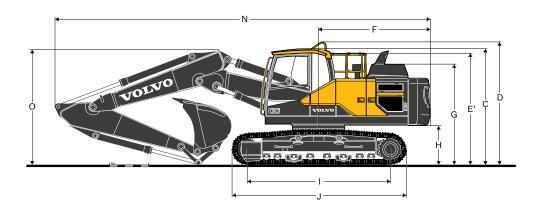
Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has nine

different adjustments plus a seat belt for the operator's comfort and safety.

Sound Level

Sound pressure level in cab according	to ISO 6396	
L _{pA} (standard)	dB	69
L _{pA} (tropical)	dB	70
External sound level according to ISO 639	5 and EU Nois	e Directive 2000/14/EC
L _{WA} (standard)	dB	102
L _{WA} (tropical)	dB	103

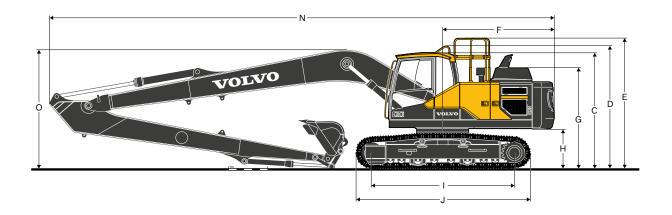




DIMENSIONS										
Description	Unit	Unit EC220EL					EC22	OENL		
Boom	m	5.	7 mono or	5.57 2-pie	ece	5.7 mono or 5.57 2-p			piece	
Arm	m	2.0	2.5	2.9	3.5	2.0	2.5	2.9	3.5	
A. Overall width of upper structure	mm	2 540	2 540	2 540	2 540	2 540	2 540	2 540	2 540	
B. Overall width	mm	2 990	2 990	2 990	2 990	2 540	2 540	2 540	2 540	
C. Overall height of cab	mm	2 955	2 955	2 955	2 955	2 955	2 955	2 955	2 955	
D. Overall height of handrail	mm	3 075	3 075	3 075	3 075	3 075	3 075	3 075	3 075	
E. Overall height of guardrail(unfolded)	mm	3 270	3 270	3 270	3 270	3 270	3 270	3 270	3 270	
E'. Overall height of guardrail(folded)	mm	2 790	2 790	2 790	2 790	2 790	2 790	2 790	2 790	
F. Tail swing radius	mm	2 850	2 850	2 850	2 850	2 850	2 850	2 850	2 850	
G. Overall height of engine hood	mm	2 600	2 600	2 600	2 600	2 600	2 600	2 600	2 600	
H. Counterweight clearance *	mm	1 0 2 5	1 0 2 5	1025	1025	1 0 2 5	1 0 2 5	1 0 2 5	1 0 2 5	
I. Tumbler length	mm	3 660	3 660	3 660	3 660	3 660	3 660	3 660	3 660	
J. Track length	mm	4 460	4 460	4 460	4 460	4 460	4 460	4 460	4 460	
K. Track gauge	mm	2 390	2 390	2 390	2 390	2 040	2 040	2 040	2 040	
L. Shoe width	mm	600	600	600	600	500	500	500	500	
M. Min. ground clearance *	mm	460	460	460	460	460	460	460	460	
N. Overall length	mm	9 795	9 745	9 690	9 720	9 795	9 745	9 690	9 720	
N1. Overall length	mm	9 660	9 610	9 570	9 560	9 660	9 610	9 570	9 560	
O. Overall height of boom	mm	3 100	3 080	2 940	3 260	3 100	3 080	2 940	3 260	
O1. Overall height of boom	mm	3 065	3 065	2 960	3 310	3 065	3 065	2 960	3 310	

 $[\]ensuremath{^{\star}}$ Without shoe grouser.

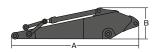
¹²⁻piece boom



DIMENSIONS											
Description	Unit		EC2	20EN			EC220ELR				
Boom	m	5.	7 mono or	5.57 2-pie	ece	5.	7 mono or	5.57 2-pic	ece	8.85	
Arm	m	2.0	2.5	2.9	3.5	2.0	2.5	2.9	3.5	6.25	
A. Overall width of upper structure	mm	2 540	2 540	2 540	2 540	2 540	2 540	2 540	2 540	2 540	
B. Overall width	mm	2 800	2 800	2 800	2 800	2 540	2 540	2 540	2 540	3 190	
C. Overall height of cab	mm	2 955	2 955	2 955	2 955	3 020	3 020	3 020	3 020	2 955	
D. Overall height of handrail	mm	3 075	3 075	3 075	3 075	3 140	3 140	3 140	3 140	3 075	
E. Overall height of guardrail(unfolded)	mm	3 270	3 270	3 270	3 270	3 335	3 335	3 335	3 335	3 270	
E'. Overall height of guardrail(folded)	mm	2 790	2 790	2 790	2 790	2 855	2 855	2 855	2 855	2 790	
F. Tail swing radius	mm	2 850	2 850	2 850	2 850	2 850	2 850	2 850	2 850	2 850	
G. Overall height of engine hood	mm	2 600	2 600	2 600	2 600	2 665	2 665	2 665	2 665	2 600	
H. Counterweight clearance *	mm	1 0 2 5	1 0 2 5	1 0 2 5	1 0 2 5	1 090	1090	1090	1 090	1 025	
I. Tumbler length	mm	3 370	3 370	3 370	3 370	3 510	3 510	3 510	3 510	3 660	
J. Track length	mm	4 160	4 160	4 160	4 160	4 360	4 360	4 360	4 360	4 460	
K. Track gauge	mm	2 200	2 200	2 200	2 200	2 040	2 040	2 040	2 040	2 390	
L. Shoe width	mm	600	600	600	600	500	500	500	500	800	
M. Min. ground clearance *	mm	460	460	460	460	490	490	490	490	460	
N. Overall length	mm	9 795	9 745	9 690	9 720	9 795	9 745	9 690	9 720	12 880	
N1. Overall length	mm	9 660	9 610	9 570	9 560	9 660	9 610	9 570	9 560	-	
O. Overall height of boom	mm	3 100	3 080	2 940	3 260	3 100	3 080	2 940	3 260	3 055	
O1. Overall height of boom	mm	3 065	3 065	2 960	3 310	3 065	3 065	2 960	3 310	-	

^{*} Without shoe grouser.





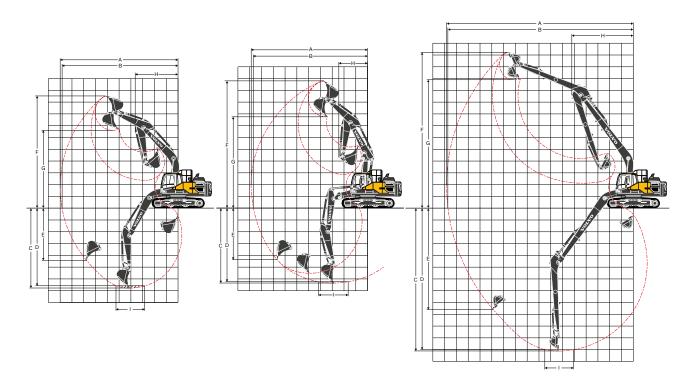
DIMENSION	S												
		Boom Arm											
Description	Unit	mono	mono	2-piece	Long- Reach	Description	Unit						Long- Reach
Boom	m	5.7	5.7 HD	5.57	8.85	Arm	m	2.0	2.5	2.9	2.9 HD	3.5	6.25
Length	mm	5 910	5 910	5 780	9 060	Length	mm	3 065	3 525	3 910	3 910	4 540	7 330
Height	mm	1 585	1585	1 570	1460	Height	mm	980	860	860	860	855	945
Width	mm	670	670	670	670	Width	mm	440	440	440	440	440	385
Weight	kg	2 006	2 151	2 585	2 510	Weight	kg	1 091	1 133	1 146	1 183	1226	1309

^{*} Includes cylinder, piping and pin, excludes boom cylinder pin

^{1 2-}piece boom

^{*} Includes cylinder, linkage and pin

Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width		
	mm	kg	kPa	mm	kg	kPa	mm		
				EC22	OEL				
		1 03	m boom, 2.9 m 6 kg / 1.27 m³ b 00 kg counterw	ucket,	1 036	m 2-piece, 2.9 i 6 kg / 1.27 m³ b 00 kg counterw	ıcket,		
	500	23 685	58.8	2 890	24 395	60.8	2 890		
	600	23 940	50.0	2 990	24 650	51.0	2 990		
Triple grouser	700	24 405	43.1	3 090	25 110	45.1	3 090		
	800	24 680	38.2	3 190	25 390	39.2	3 190		
	900	24 975	34.3	3 290	25 685	35.3	3 290		
Triple grouser HD	600	24 100	50.0	2 990	24 820	51.0	2 990		
Double grouser	700	24 660	44.1	3 090	25 370	45.1	3 090		
Single grouser	600	24 145	50.0	2 990	24 855	52.0	2 990		
				EC220	DENL				
		1 030	m boom, 2.9 m 6 kg / 1.27 m³ b 00 kg counterw	ucket,	1 036	57 m 2-piece, 2.9 m arm, 036 kg / 1.27 m ³ bucket, 5 000 kg counterweight			
	500	23 380	57.9	2 540	24 085	59.8	2 540		
riple grouser	600	23 630	49.0	2 640	24 340	50.0	2 640		
	700	24 095	43.1	2 740	24 805	44.1	2 740		
Triple grouser HD	600	23 805	49.0	2 640	24 515	51.0	2 640		
Double grouser	700	24 355	43.1	2 740	25 060	44.1	2 740		
				EC22	OEN				
		5.7 m boom, 2.9 m arm, 1 036 kg / 1.27 m³ bucket, 5 000 kg counterweight			5.57 m 2-piece, 2.9 m arm, 1 036 kg / 1.27 m ³ bucket, 5 000 kg counterweight				
	600	23 500	53.0	2 800	24 210	53.9	2 800		
	700	23 935	46.1	2 900	24 645	47.1	2 900		
Triple grouser	800	24 195	40.2	3 000	24 900	42.2	3 000		
	900	24 470	36.3	3 100	25 180	37.3	3 100		
Triple grouser HD	600	23 660	53.0	2 800	24 370	54.9	2 800		
-				EC220	ENH				
		1 030	m boom, 2.9 m 6 kg / 1.27 m³ b 00 kg counterw	ucket,	1 036	m 2-piece, 2.9 i 6 kg / 1.27 m³ b 00 kg counterw	ucket,		
	500	24 665	66.7	2 540	25 375	68.6	2 540		
riple grouser	600	24 970	55.9	2 640	25 680	57.9	2 640		
-	700	25 500	49.0	2 740	26 210	50.0	2 740		
			EC220ELR						
		452	m boom, 6.25 r kg / 0.52 m³ bu 00 kg counterw	ıcket,					
	800	25 080	39.2	3 190					
Triple grouser	900	25 375	35.3	3 290					



WORKING RANGE												
Description			Unit			EC220E	L/EC22	OENL/E	C220EN			EC220ELR
Boom			m		5.7 r	nono			5.57 2	:-piece		8.85
Arm			m	2.0	2.5	2.9	3.5	2.0	2.5	2.9	3.5	6.25
A. Max. digging rea	ch		mm	9 090	9 550	9 930	10 390	8 980	9 450	9 840	10 310	15 800
B. Max. digging rea	ch on ground		mm	8 910	9 380	9 770	10 240	8 800	9 280	9 670	10 150	15 700
C. Max. digging de	oth		mm	5 830	6 3 3 0	6 730	7 330	5 410	5 900	6 300	6 850	12 100
D. Max. digging de	oth (2.44 m level)		mm	5 560	6 100	6 540	7 130	5 290	5 790	6 200	6 750	12 000
E. Max. vertical wal	l digging depth		mm	4 880	5 620	6 090	6 470	4 390	4 990	5 410	5 930	11 290
F. Max. cutting heig	ıht		mm	8 940	9 220	9 460	9 460	10 010	10 380	10 710	10 920	13 300
G. Max. dumping h	eight		mm	6 190	6 430	6 650	6 700	7 100	7 460	7 780	8 010	10 950
H. Min. front swing	radius		mm	mm 3 790 3 670 3 640 3 660 2 890 2 740 2 47							2 730	5 200
Description			Unit					EC220	ENH			
Boom			m	-		5.7 r	nono					
Arm		m	-	2.0	2.5	2.9	3.5	2.0	2.5	2.9	3.5	
A. Max. digging reach				-	9 090	9 550	9 930	10 390	8 980	9 450	9 840	10 310
B. Max. digging rea	ch on ground		mm	-	8 910	9 380	9 770	10 240	8 800	9 280	9 670	10 150
C. Max. digging de	oth		mm	-	5 760	6 260	6 660	7 260	5 340	5 830	6 230	6 780
D. Max. digging de	oth (2.44 m level)		mm	-	5 490	6 030	6 470	7 060	5 220	5 720	6 130	6 680
E. Max. vertical wal	l digging depth		mm	-	4 810	5 550	6 020	6 400	4 320	4 920	5 340	5 860
F. Max. cutting heig	ıht		mm	-	9 010	9 290	9 530	9 530	10 080	10 450	10 780	10 990
G. Max. dumping h	eight		mm	-	6 260	6 500	6 720	6 770	7 170	7 530	7 850	8 080
H. Min. front swing	radius		mm	-	3 790	3 670	3 640	3 660	2 890	2 740	2 470	2 730
DIGGING FORCES	WITH DIRECT FIT B	UCKET										
Bucket radius			mm	1528	1528	1528	1 528	1528	1528	1528	1528	1250
	Normal	SAE J1179	kN	146	125	125	125	146	125	125	125	68
Breakout force -	Power boost	SAE J1179	kN	154	132	132	132	154	132	132	132	-
bucket	Normal	ISO 6015	kN	165	141	141	141	165	141	141	141	77
	Power boost	ISO 6015	kN	174	149	149	149	174	149	149	149	-
	Normal	SAE J1179	kN	144	117	101	92	144	117	101	92	44
Tearout force -	Power boost	SAE J1179	kN	153	124	107	97	153	124	107	97	-
dipper arm	Normal	ISO 6015	kN	149	121	104	94	149	121	104	94	45
	Power boost	ISO 6015	kN	158	128	110	99	158	128	110	99	-
Rotation angle, bucke	et		٥	166	175	175	175	175	175	175	175	178

									EC2	20EL				
		Compositor	Cutting	NA/alash4	Teeth		5.7 m	Boom			5.57 m	2-piece		
Bucke	et type	Capacity	width	Weight	reetn	600		oe, 4 200 rweight) kg	600 mm shoe, 4 200 kg counterweight				
		L	mm	kg	EA	2.0 m	2.5 m	2.9 m	3.5 m	2.0 m	2.5 m	2.9 m	3.5 m	
		480	600	623	3	С	С	С	С	С	С	С	С	
		630	800	703	4	С	С	С	С	С	С	С	С	
		750	900	749	4	С	С	С	С	С	С	С	С	
Direct fit	General	920	1 050	819	4	С	С	С	С	С	С	С	С	
Buckets	purpose	1090	1200	908	5	С	С	С	С	С	С	С	С	
		1 270	1350	995	5	С	С	С	В	С	С	С	В	
		1440	1500	1 085	6	С	С	В	Α	С	С	В	А	
									EC22	OENL				
			Cutting				5.7 m	Boom			5.57 m	2-piece		
Bucke	et type	Capacity	width	Weight	Teeth	600) mm sho	oe, 5 000) kg	600	0 mm sh	e, 5 000) kg	
							counte	rweight			counte	rweight		
		L	mm	kg	EA	2.0 m	2.5 m	2.9 m	3.5 m	2.0 m	2.5 m	2.9 m	3.5 m	
		480	600	623	3	С	С	С	С	С	С	С	С	
		630	800	703	4	С	С	С	С	С	С	С	С	
Direct fit		750	900	749	4	С	С	С	С	С	С	С	С	
	General purpose	920	1 050	819	4	С	С	С	С	С	С	С	С	
	purpose	1 090	1200	908	5	С	С	С	С	С	С	С	С	
		1 270	1350	995	5	С	С	С	С	С	С	С	С	
		1440	1500	1 0 8 5	6	С	С	С	В	С	С	С	В	
			EC22											
		Capacity	Cutting	Weight	Teeth		5.7 m	Boom			5.57 m	2-piece		
Bucke	et type	Capacity	width	Vicigiii	reetii	600		oe, 4 200) kg	600		oe, 4 200) kg	
								rweight	1		1	rweight		
	1	L	mm	kg	EA	2.0 m	2.5 m	2.9 m	3.5 m	2.0 m	2.5 m	2.9 m	3.5 m	
		480	600	623	3	С	С	С	С	С	С	С	С	
		630	800	703	4	С	С	С	С	С	С	С	С	
Direct fit	General	750	900	749	4	С	С	С	С	С	С	С	С	
Buckets	purpose	920	1 050	819	4	С	С	С	С	С	С	С	С	
		1090	1200	908	5	С	С	С	С	С	С	С	С	
		1 270	1350	995	5	С	С	С	В	С	С	С	В	
		1 440	1500	1 085	6	С	С	В	А	С	С	В	Α	
									EC22	OENH				
		Capacity	Cutting	Weight	Teeth			Boom				2-piece		
Bucke	et type	' '	width			600		oe, 5 000) kg	600		oe, 5 000) kg	
		L		1	EA	2.0 m	2.5 m	2.9 m	3.5 m	2.0 m	2.5 m	2.9 m	3.5 m	
		L	mm	kg		2.0 m	2.5 m	2.9 m	3.5 m	2.0 m	2.5 m	2.9 m	3.5 m	
	1		600	600	2									
		480	600	623	3	-			-		_			
		480 630	800	703	4	С	С	С	С	С	С	С	С	
Direct fit	General	480 630 750	800 900	703 749	4	C	C C	C	C	C	C C	C	C C	
Direct fit Buckets	General purpose	480 630 750 920	800 900 1 050	703 749 819	4 4 4	C C	C C	C C	C C	C C	C C	C C	C C	
		480 630 750 920 1 090	800 900 1 050 1 200	703 749 819 908	4 4 4 4 5	C C C	C C C	C C C	C C C	C C C	C C C	C C C	C C C	
		480 630 750 920	800 900 1 050	703 749 819	4 4 4	C C	C C	C C	C C	C C	C C	C C	C C	

Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application. The recommendations are given as a guide only, based on typical operation conditions. Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

Ma	ximum materal density	
Α	1 200~1 300 kg/m ³	Coal, Caliche, Shale
В	1 400~1 600 kg/m ³	Wet earth and clay, Limestone, Sandstone
С	1700~1800 kg/m³	Granite, Wet sand, Well blasted rock
D	1900 kg/m ³ ~	Wet mud Iron ore

LIFTING CAPACITY EC220EL

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 coupler from the following values.

related to ground level UC UC UC UC UC UC UC U																	I	For lifting capacity
Ground level UC		lax. rea																
75m	ı m	Across UC		1		1		l .										
Boom: 5.57 m				UC	UC	UC	UC	UC	UC			UC	l uc	UC	UC		9	
Boom: 5.57 m 2-piece Arm: 2.5 m Soon Kg Mg Mg Mg Mg Mg Mg Mg		*8 480						0.000	*7.470									
2-piece Arm: 2.0 m Shoe: 600 mm CWT: 5 000 kg 0 m kg		5720 4620																Boom: 5 57 m
Arm: 2.0 m Shoe: 600 mm CWT: 5 000 kg 15m kg																_	-	
Since 50 Orlining Om kg		4 120				0.070	0.100			8 490	^10 890							
## 1.5m kg		3 9 6 0				3970	6 130			7,000	*10.070					_		
3.0 m kg		4 070																CWT: 5 000 kg
Room: 5.57 m Rg		4 5 5 0	~5 890					52/0	~/ I2U									
Boom: 5.57 m 2-piece 4.5m kg 4	5.7	*0000	*0.000															
2-piece		*6800						0.100	+7.000							_		
Arm: 2.5 m 3.0 m kg *10 490 8 710 *7930 5 730 6 290 4 110 5 810 3		5060										40.700	440.700					Boom: 5.57 m
Shoe: 600 mm		4 200				4.440	0.000					^12 /30	^12 /30			_		
CWT: 5 000 kg		3 800																
1.5m kg		3 660																
3.0 m kg		3740				3 920	6 090					H44 400	444 400					CW1. 3 000 kg
Boom: 5.57 m Rectangle Boom: 5.57 m Rectangle Boom: 5.57 m Rectangle Rectang		4 110										^11490	^11490			_		
Room: 5.57 m Room: 6.00 m Room: 6.57 m Room: 6.00 m Room: 6.57 m Room: 6.00 m Room: 6.57 m Room		5 010						5360	*56/0	*7830	*7830							
Boom: 5.57 m 2-piece Arm: 2.9 m GP Shoe: 600 mm CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.9 m GP Shoe: 600 mm CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.9 m GP Shoe: 600 mm CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.9 m GP Shoe: 600 mm CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m HD CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m HD CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m HD CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m HD CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.5 m Kg CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.9 m GP CWT: 5 000 kg Boom: 5.7 m GP Arm: 2.9 m GP CWT: 5 000 kg Boom: 5.7 m GP CWT: 5 000 kg CWT: 5 000 kg Boom: 5.7 m GP CWT: 5		*6130						4F 14C	45.440	+7.000	+7.000					-		
2-piece Arm: 2.9 m GP Shoe: 600 mm CWT: 5 000 kg 0 m kg 1.5 m kg		*4 940																D
Arm: 2.9 m GP Shoe: 600 mm CWT: 5 000 kg 1.5 m kg 1.5		*4560														-		
Shoe: 600 mm CWT: 5 000 kg 1.5 m kg		3 900										*9 140	*9140					
Om kg		3 5 6 0																
-1.5 m kg		3 430																
-3.0 m kg		3 500																
75 m kg 6.0 m kg 8		3 790				3 910	*5790											
Boom: 5.7 m GP Arm: 2.5 m HD Shoe: 600 mm CWT: 5 000 kg		4500						5310	*6370	7960	*8600	*10 990	*10 990					
Boom: 5.7 m GP Arm: 2.5 m HD Shoe: 600 mm CWT: 5 000 kg		*5 670																
Arm: 2.5 m HD Shoe: 600 mm CWT: 5 000 kg 0 m kg -1.5 m k		4 970														_		
Shoe: 600 mm CWT: 5 000 kg		4 170																Boom: 5.7 m GP
CWT: 5 000 kg		3 790				7										_		
-1.5 m kg		3 660																
-3.0 m kg		3 740				3 990	6 110									_		CW1: 5 000 kg
-4.5 m kg		4 090																
75 m kg		4930						5420	*7790									
Boom: 5.7 m GP Arm: 2.9 m GP Shoe: 600 mm 4.5 m kg *5 600 *5 600 *5 600 *5 350 4320 *4 520 3 1.5 m kg *8 440 *8 440 *6 590 5 840 *5 750 4210 *4 640 3 *4 580 4 *4 520 3 *5 600 *5 60		*7 150								*8 140	*8140	*11400	*11400					
Boom: 5.7 m GP 4.5 m kg *560 *560 *560 *5350 4320 *4520 3 Arm: 2.9 m GP 3.0 m kg *8440 *8440 *6590 5840 *5750 4210 *4640 3 Shoe: 600 mm 1.5 m kg *10370 8360 7757 5590 6220 4090 *4990 3		*4910																
Arm: 2.9 m GP Shoe: 600 mm		4 540					de cer											
Shoe: 600 mm 1.5 m kg *10 370 8 360 *7 570 5 590 6 220 4 090 *4950 3		3 880														_		
		3 560																
CW1: 9 UOU Kg		3 4 4 0																
I TO THE TENED OF THE PERSON O		3 500																CVV 1: 5 000 kg
		3 780				3 970	6 090									_		
		4 450						5 380	*8 080					*11380	*11 380			
		6150								8 290	*9 050	*12 740	*12 740					
		4 770																
6.0 m kg *4 610 4 420 *4850 3																_		
500III. 5.7 III GF		3 3 6 0																Boom: 5.7 m GP
Arm: 3.5 m GP 3.0 m kg *5740 *5740 *5740 4220 4780 3160 4710 3	110 9.1	3 110	4710	3160	4780	4 2 2 0	*5 170									kg	3.0 m	
	020 9.2	3 020	4 590	3 110	4720	4 070	*5 680	5 600	*6720							kg	1.5 m	
CWT: 5 000 kg	9.0	3 0 6 0	4 680			3 950	6 070	5380	*7520							kg	0 m	CWT: 5 000 kg
-1.5 m kg *10.750 7.890 *7.940 5.260 6.000 3.880 5.010 3.	270 8.6	3 270	5 010			3 880	6 000	5 2 6 0	*7940	7890	*10 750					kg	-1.5 m	
-3.0 m kg	730 7.8	3730	*5710			3 910	6 030	5250	*7830	7900	*10 470	*15300	*15 300			kg	-3.0 m	
-4.5 m kg *16720 *16720 *13 020 *13 020 *9 260 8 060 *6 830 5 370 *5 830 4	760 6.6	4 760	*5830					5370	*6830	8 060	*9 260	*13 020	*13 020	*16 720	*16720	kg	-4.5 m	

LIFTING CAPACITY EC220ENL

Lifting capacity at the arm end without bucket.

For lifting capacity	includir	ng bu			1										followin	g values.	
	Lifting I		1.5		3.0			m	6.0			m) m		/lax. reacl	h
	related ground		Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	m
	7.5 m	kg	-	-	-	-	-	-	-	-	-	-	-	-	*6 270	*6 270	4.9
	6.0 m	kg	-	-	-	-	-	-	*6 020	5 140	-	-	-	-	*6060	4730	6.3
Boom: 5.7 m HD	4.5 m	kg	-	-	-	-	*7650	7640	*6 410	5000	-	-	-	-	*6100	3 850	7.1
Arm: 2.0 m ME	3.0 m	kg	-	-	-	-	*9 620	7 050	*7 210	4 760	6130	3 450	-	-	6 110	3 440	7.5
Shoe: 500 mm	1.5 m	kg	-	-	-	-	-	-	*7980	4 550	6 0 3 0	3 3 6 0	-	-	5900	3 300	7.6
CWT: 5 000 kg	0.0 m	kg	-	-	-	-	*11 520	6 510	8 240	4430	-	-	-	-	6100	3 380	7.4
	-1.5 m	kg	-	-	-	-	*11130	6 530	8 230	4 420	-	-	-	-	6 810	3740	6.9
	-3.0 m	kg		-	*13 280	12 560	*9 870	6 690	-		-		-		*7320	4 690	5.9
	7.5 m	kg	-	-	-	-	-	-	-	-	-	-	-	-	*5 640	*5640	5.6
	6.0 m	kg	-	-		-	-	-	*5 470	5 260	-	-	-	-	*5 570	4 210	6.9
	4.5 m	kg	-	-	-	-	*6960	*6960	*5990	5100	*5 640	3 590	-	-	*5 650	3 520	7.6
Boom: 5.7 m HD Arm: 2.5 m HD	3.0 m	kg	-	-		-	*8 960	7 2 6 0	*6860	4 850	*5 950	3 500	-	-	5 610	3 180	8.0
Shoe: 500 mm	1.5 m	kg	-	-	-	-	*10 700	6780	*7 750	4 620	6 0 7 0	3400	-	-	5440	3 0 6 0	8.1
CWT : 5 000 kg	0.0 m	kg	-	-	-	-	*11480	6 560	8280	4460	5980	3 3 2 0	-	-	5 590	3 110	7.9
· ·	-1.5 m	kg	-	-	*10 840	*10 840	*11390	6 5 3 0	8 230	4 4 2 0	-	-	-	-	6140	3400	7.4
	-3.0 m	kg	-	-	*14 640	12 430	*10 480	6 640	*7730	4 490	-	-	-	-	*6 950	4100	6.5
	-4.5 m	kg	-	-	*11290	*11290	*8 060	6920	-	-	-	-	-	-	*7 090	6 0 7 0	5.0
	7.5 m	kg	-	-		-	-	-	*5150	*5 150	-	-	-	-	*4 910	*4 910	6.2
	6.0 m	kg	-	-	-	-	-	-	*5 050	*5 050	-	-	-	-	*4580	3 850	7.3
D	4.5 m	kg	-	-	-	-	-	-	*5 630	5 170	*5310	3 650	-	-	*4 520	3 270	8.0
Boom : 5.7 m HD Arm : 2.9 m GP	3.0 m	kg	-	-	-	-	*8390	7 410	*6 550	4 9 2 0	*5710	3 540	-	-	*4 640	2980	8.4
Shoe : 500 mm	1.5 m	kg	-	-	-	-	*10 300	6890	*7 510	4 670	6100	3 420	-	-	*4 950	2 870	8.5
CWT: 5 000 kg	0.0 m	kg	-	-	*5420	*5 420	*11340	6 610	*8 210	4 4 9 0	5990	3 3 3 3 0	-	-	5210	2910	8.3
· ·	-1.5 m	kg	*6 270	*6270	*10 320	*10 320	*11500	6530	8 2 2 0	4 410	5960	3 300	-	-	5 660	3 150	7.8
	-3.0 m	kg	*11380	*11380	*15 530	12 320	*10 840	6 590	*8 020	4 450	-	-	-	-	*6600	3700	6.9
	-4.5 m	kg		-	*12 620	*12 620	*8 970	6 810	-	-	-				*6 860	5110	5.6
	7.5 m	kg	-	-	-	-	-	-	*5130	*5 130	-	-	-	-	*4900	*4900	6.2
	6.0 m	kg	-	-	-	-	-	-	*5 030	*5 030	-	-	-	-	*4 570	3 830	7.3
D E 7 UD	4.5 m	kg	-	-	-	-	-	-	*5600	5150	*5 280	3 630	-	-	*4 510	3 250	8.0
Boom: 5.7 m HD Arm: 2.9 m HD	3.0 m	kg	-	-	-	-	*8 350	7380	*6 510	4890	*5 680	3 520	-	-	*4 630	2960	8.4
Shoe: 500 mm	1.5 m	kg	-	-	-	-	*10 250	6 8 5 0	*7 470	4 640	6 070	3 390	-	-	*4 940	2840	8.5
CWT: 5 000 kg	0.0 m	kg	-	-	*5 410	*5 410	*11290	6 560	*8 170	4 450	5960	3 300	-	-	5190	2890	8.3
	-1.5 m	kg	*6 260	*6260	*10 310	*10 310	*11 450	6480	8 190	4380	5930	3 270	-	-	5 6 3 0	3 120	7.8
	-3.0 m	kg	*11370	*11 370	*15 470	12 260	*10 790	6 550	*7980	4 410	-	-		-	*6 570	3 670	6.9
	-4.5 m	kg	-	-	*12 570	*12 570	*8 930	6770	-	-	-	-	-	-	*6820	5080	5.6
	7.5 m	kg	-	-	-	-	-	-	-	-	-	-	-	-	*4 910	4100	7.1
	6.0 m	kg	-	-	-	-	-	-	-	-	*4620	3 790	-	-	*4860	3 280	8.1
Boom: 5.7 m HD	4.5 m	kg	-	-	-	-	-	-	*4 880	*4880	*4 770	3 730	-	-	*4 910	2860	8.8
Arm: 3.5 m GP	3.0 m	kg	-	-	-	-	-	-	*5750	5020	*5 180	3 590	4730	2680	4650	2640	9.1
Shoe : 500 mm	1.5 m	kg	-	-	-	-	-	-	*6730	4730	*5 690	3 450	4 660	2 620	4 530	2 550	9.2
CWT : 5 000 kg	0.0 m	kg	-	-	-	-	-	-	*7530	4 510	6000	3 3 3 3 0	-	-	4 620	2580	9.0
· ·	-1.5 m	kg	-	-	-	-	*10 750	6 500	*7940	4390	5 920	3 260	-	-	4940	2750	8.6
	-3.0 m	kg	-	-	*15 280	12 110	*10 470	6500	*7840	4380	5 9 5 0	3 280	-	-	5 650	3 140	7.8
	-4.5 m	kg	*16 740	*16 740	*13 000	12 410	*9 250	6 650	*6830	4 500	-	-				4000	6.6
	7.5 m	kg	-	-	-	-	-	-	-	-	-	-	-	-	*6 270	*6 270	4.9
	6.0 m	kg	-	-	-	-	-	-	*6 020	5 190	-	-	-	-	*6 060	4 770	6.3
Boom: 5.7 m HD	4.5 m	kg	-	-	-	-	*7650	*7 650	*6410	5040	-	-	-	-	*6100	3880	7.1
Arm: 2.0 m ME	3.0 m	kg	-	-	-	-	*9 620	7 110	*7 210	4 810	6190	3 480	-	-	6 170	3 470	7.5
Shoe: 600 mm	1.5 m	kg	-	-	-	-	-	-	*7980	4590	6 090	3 400	-	-	5 9 7 0	3 3 3 3 0	7.6
CMT - F 000 I	0.0 m	kg	-	-			*11 520	6 570	8320	4 470	-	-	-	-	6160	3 410	7.4
CW1:5 000 kg																	
CW1:5 000 kg	-1.5 m	kg kg	-	-	- *13 280	- 12 670	*11130 *9870	6 600 6 750	*8 290	4460	-	-	-	-	6 8 8 0 *7 3 2 0	3 780 4 730	6.9 5.9

LIFTING CAPACITY EC220EN

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 coupler from the following values.

For litting capacity	1		T														
	Lifting h		_	m .) m	4.5) m	7.5) m	†	1ax. reac	<u>n</u>
	related		Along UC	Across	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across	Along UC	Across UC	m
-	7.5 m	kg	1 00	00	00	00	*8 600			UC	UC	UC	UC	00	*8 480		4.8
	6.0 m	kg							*7 470	5.440					*7 400		6.2
Boom: 5.57 m	4.5 m	kg					*9 580		*7 670	5310					6240	4160	7.0
2-piece	3.0 m	kg					*10 890		7720	5060					5 590	3 710	7.4
Arm: 2.0 m ME	1.5 m	kg					10 030	7 300	7 470	4 830	5400	3 5 6 0			5 400		7.5
Shoe: 600 mm	0 m	kg					*10 870	6 960		4 710	3400	3 300			5 570		7.3
CWT: 5 000 kg	-1.5 m	kg							*7 120						*5 890		6.7
	-3.0 m	kg					*6 690		7 120	7/10					3 030	4070	5.7
	7.5 m	kg					*7 840								*6 800	6.420	5.5
	6.0 m	kg							*7 020	5 580					*6 230		6.7
Boom: 5.57 m	4.5 m	kg			*12 730	*12 730	*9 040								5 660		7.5
2-piece	3.0 m	kg			12 100	12 700	*10 490		7830	5160	5 560	3 700			5 140		7.9
Arm: 2.5 m HD	1.5 m	kg					*11 420		7 550	4 910	5440	3 590			4 970		8.0
Shoe: 600 mm	0 m	kg					*11 250		7 370	4 740	5360	3 520				3 350	7.8
CWT: 5 000 kg	-1.5 m	kg			*11 490	*11 490	*10 080		7 320		3000	0 320			5 620		7.3
	-3.0 m	kg			11 430	11 430	*7 830		*5 670						*5 010		6.3
-	9 m	kg					7 000	7 120	3 07 0	+ 000					*6 130		4.0
	7.5 m	kg					*7 030	*7 030	*5 140	*5 1/10					*4 940		6.0
	6.0 m	kg							*6 680						*4 560		7.2
Boom: 5.57 m	4.5 m	kg			*0 1/10	*0 1/10	*8 560				5 730	3 850			*4 470		7.9
2-piece Arm: 2.9 m GP	3.0 m	kg			3 140	3 1+0	*10 090		*7720	5 2 3 0	5 610	3740			*4 570		8.3
Shoe: 600 mm	1.5 m	kg					*11260	7380	7 610	4 960	5470	3 620				3 080	8.4
CWT: 5 000 kg	0m	kg			*5.040	*5.040	*11 410		7 400	4 770	5 3 6 0					3 130	8.2
_	-1.5 m	kg					*10 530		7 310		5 340					3 400	7.7
	-3.0 m	kg					*8 600				3 340	3 300			*4 980		6.8
	7.5 m	kg			10 330	10 330	0 000	1 010	0010	+ 1+0					*5 670		5.6
	6.0 m	kg							*5 500	*5 500					*5 600		6.9
	4.5 m	kg					*7 000	*7 000	*6 020		*5 680	3 860			5 570	3 770	7.6
Boom: 5.7 m GP	3.0 m	kg					*9 020		*6 910	5210	5 590	3770			5 080		8.0
Arm: 2.5 m HD	1.5 m	kg					*10 780	7370	7 580	4 980	5 470	3 660				3 300	8.1
Shoe: 600 mm	0 m	kg					11 520	7160	7 410	4 840	5400	3 590			5 050		7.9
CWT: 5 000 kg	-1.5 m	kg			*10.840	*10 840		7 130	7 360	4 790	0 100	0 000			5 530	3 680	7.4
	-3.0 m	kg					*10 560		7 440						6 710		6.5
	-4.5 m	kg					*8 140			. 000					*7 150		5.0
	7.5 m	kg			11 100	11 100	0 110	7 000	*5 180	*5 180					*4 910		6.2
	6.0 m	kg							*5 080						*4 580		7.3
	4.5 m	kg							*5 660		*5350	3 910			*4 520		8.0
Boom: 5.7 m GP	3.0 m	kg					*8 440	7 980	*6590	5280	5 630	3 810			*4 640		8.4
Arm: 2.9 m GP	1.5 m	kg					*10 370	7 470	*7570	5 0 3 0	5500	3 690			4 610	3 100	8.5
Shoe: 600 mm	0 m	kg			*5420	*5420	*11430	7200	7440	4860	5 400				4 710	3 150	8.3
CWT: 5 000 kg	-1.5 m	kg	*6 270	*6 270	*10 320			7120	7 3 6 0	4 790					5 110		7.8
	-3.0 m	kg			*15 660			7180	7 400	4 820					6 040		6.9
	-4.5 m	kg					*9 050	7400							*6 920		5.6
	7.5 m	kg					1 110								*4 940		7.1
		kg									*4 650	4 050			*4 900		8.1
	4.5 m	kg							*4 910	*4 910	*4 800				4 520		8.8
Boom: 5.7 m GP	3.0 m	kg								5 370		3850	4 280	2890	4 210	2 840	9.1
Arm: 3.5 m GP	1.5 m	kg							*6770	5 090	5 530	3 710	4220	2830	4100	2750	9.2
Shoe: 600 mm CWT: 5 000 kg	0 m	kg							7 470	4880	5400	3 590			4180	2790	9.0
C VV 1: 5 000 kg	-1.5 m	kg					*10 830	7 090	7340	4760	5340	3 530			4 470	2980	8.6
	-3.0 m	kg			*15 400	13 430	*10 550		7320	4750	5360	3 550			5100	3 3 9 0	7.8
	-4.5 m		*16 740	*16 740	*13 110			7240		4870					*5890	4320	6.6
		9					- 200		- 200								

LIFTING CAPACITY EC220ENH

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 coupler from the following values.

For lifting capacity	Lifting			iy subtra i m) m		m) m		m		ne iollow) m		s. 1ax. reacl	
	relate		Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	
	ground		UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	m
	7.5 m	kg													*5 670	*5 670	5.6
	6.0 m	kg							*5 500	5440					*5600	4380	6.9
Boom: 5.7 m	4.5 m	kg					*7000	*7000	*6020	5290	*5680	3 750			*5 690	3 670	7.6
Arm: 2.5 m	3.0 m	kg					*9 020	7 550	*6 910	5 0 5 0	*5 990	3 660			5 530	3 330	8.0
Shoe: 500 mm	1.5 m	kg					*10 780	7090	*7800	4830	5 9 7 0	3 5 6 0			5360	3 210	8.1
CWT: 5 000 kg	0 m	kg					*11570	6880	8110	4 680	5 890	3 490			5 500	3 270	7.9
	-1.5 m	kg			*10 840	*10 840	*11480	6860	8060	4 640					6 040	3 570	7.4
	-3.0 m	kg			*14 760	13 020	*10 560	6950	*7790	4 710					*7 010	4 290	6.5
	-4.5 m	kg			*11400	*11400	*8 140	7220							*7 150	6330	5.0
	7.5 m	kg		-					*5180	*5180					*4 910	*4 910	6.2
	6.0 m	kg							*5080	*5 080					*4580	4000	7.3
Boom: 5.7 m	4.5 m	kg							*5660	5360	*5350	3800			*4520	3 420	8.0
Arm: 2.9 m	3.0 m	kg					*8440	7690	*6590	5120	*5750	3700			*4 640	3120	8.4
Shoe: 500 mm	1.5 m	kg					*10 370	7190	*7 570	4 870	6 000	3 580			*4 950	3 010	8.5
CWT: 5 000 kg	0 m	kg			*5 420	*5 420	*11430	6920	8 140	4700	5900	3 4 9 0			5140	3 0 6 0	8.3
	-1.5 m	kg	*6 270	*6270	*10 320	*10 320	*11 590	6 850	8 0 6 0	4 630	5860	3 460			5 580	3 300	7.8
	-3.0 m	kg	*11380	*11380	*15 660	12 910	*10 930	6 910	*8 080	4 670					6 590	3880	6.9
	-4.5 m	kg			*12 740	*12 740	*9 050	7 120							*6 920	5340	5.6
	7.5 m	kg													*4 940	4250	7.1
	6.0 m	kg									*4 650	3 940			*4 900	3 420	8.1
Boom: 5.7 m	4.5 m	kg							*4 910	*4 910	*4800	3 870			4920	2990	8.8
Arm: 3.5 m Shoe: 500 mm	3.0 m	kg							*5 790	5 2 1 0	*5 220	3 750	4 660	2 810	4590	2760	9.1
	1.5 m	kg							*6770	4930	*5730	3 610	4 600	2750	4 470	2680	9.2
CWT: 5 000 kg	0 m	kg							*7580	4720	5900	3 490			4560	2710	9.0
	-1.5 m	kg					*10 830	6820	*8 010	4 610	5830	3 430			4870	2890	8.6
	-3.0 m	kg			*15 400	12 700	*10 550	6820	*7900	4 600	5 850	3 450			5 570	3 300	7.8
	-4.5 m	kg	*16740	*16740	*13 110	13 000	*9330	6 9 7 0	*6880	4710					*5 890	4 190	6.6
	7.5 m	kg					*8 600	8 410							*8 480	7620	4.8
Boom: 5.57 m	6.0 m	kg					*8 580	8350	*7 470	5 270					*7400	5 010	6.2
2-piece	4.5 m	kg					*9 580	7900	*7 670	5140					6800	4 0 3 0	7.0
Arm: 2.0 m	3.0 m	kg					*10 890	7280	*8 130	4890					6100	3 590	7.4
Shoe: 500 mm	1.5 m	kg							8 180	4 670	5900	3 450			5900	3 440	7.5
CWT: 5 000 kg	0 m	kg					*10 870		8 040	4 550					6 0 9 0	3 530	7.3
	-1.5 m	kg					*9 360	6720	*7 120	4 550					*5890	3 940	6.7
	-3.0 m	kg					*6690	*6 690									5.7
	7.5 m	kg					*7840	*7840		_					*6800	6210	5.5
Boom: 5.57 m	6.0 m	kg			110 ==	1.10 ===	*8 000	*8 000	*7 020	5400					*6 230	4430	6.7
2-piece	4.5 m	kg			*12 730	*12 730	*9 040	8110	*7360	5 2 5 0	0.0				*6120	3 680	7.5
Arm: 2.5 m	3.0 m	kg					*10 490	7500	*7930	4990	6 060	3 590			5 600	3 3 1 0	7.9
Shoe: 500 mm CWT: 5 000 kg	1.5 m	kg					*11420	6 980	8 260	4740	5940	3 480			5430	3 180	8.0
CVV 1. 5 000 kg	0 m	kg			444 .00	444 .00	*11250	6740	8 0 8 0	4 580	5860	3 410			5 5 7 0	3 250	7.8
	-1.5 m	kg			^11490	*11490		6710	*7 590	4 540					*5700	3 560	7.3
	-3.0 m	kg					*7830	6 8 4 0	*5 670	4 640					*5 010	4340	6.3
	9.0 m	kg					+7.000	+7.000	+5 440	+5440					*6130	*6130	4.0
Poom: 5 57 m	7.5 m	kg						*7030		*5140					*4 940		6.0
Boom: 5.57 m 2-piece	6.0 m	kg			+0.110	+0.110		*7080		5500	+0.000	0.740			*4560	4 040	7.2
Arm: 2.9 m	4.5 m	kg			^9140	*9140	*8 560		*7 090	5 3 3 0		3740			*4 470		7.9
Shoe: 500 mm	3.0 m	kg					*10 090		*7720	5 0 6 0	6110	3 630			*4570	3100	8.3
CWT: 5 000 kg	1.5 m	kg			+F 0.40	+F 0.40	*11260		*8 260	4 800	5970	3 500			*4850		8.4
	0 m	kg				*5940		6790	8 110	4 610	5860	3 410			5 200	3 040	8.2
	-1.5 m	kg				*10 850			*7870	4530	*5790	3 390			*5490		7.7
Notosi 1 Machina ir	-3.0 m	kg				*10 990			*6 370	4580					*4980	3 900	6.8

LIFTING CAPACITY EC220ELR

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, simply sub

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

For litting capacity including	<u> </u>		r'				r		r							
	Lifting h		0.0		1.5 m) m	4.5 m		6.0 m			m) m
	related ground l		Along UC	Across UC												
	4.5 m	kg											*2 820	*2 820	*3 340	*3 340
	3.0 m	kg					*6 300	*6 300	*4 590	*4 590	*3 720	*3 720	*3 210	3 070	*3 790	3 710
	1.5 m	kg					*7 880	7 3 2 0	*5 580	5 020	*4 330	3 700	*3 600	2 850	*4 210	3 410
	0.0 m	kg			*2 480	*2 480	*5 610	*5 610	*6 360	4 570	*4 860	3 410	*3 970	2 650	*4 550	3 160
	-1.5 m	kg	*2 650	*2 650	*3 360	*3 360	*5 620	*5 620	*6 860	4 290	*5 250	3 200	4 140	2 500	*4 810	2 980
	-3.0 m	kg	*3 570	*3 570	*4 340	*4 340	*6 320	6 270	*7 110	4 160	5 210	3 070	4 030	2 400	4 790	2 870
	-4.5 m	kg	*4 530	*4 530	*5 410	*5 410	*7 370	6 290	*7 120	4 120	5 150	3 020	3 980	2 350	4 740	2 830
	-6.0 m	kg	*5 560	*5 560	*6 600	*6 600	*8 740	6 410	*6 920	4 160	5 160	3 030	3 980	2 350	4 750	2 830
	-7.5 m	kg	*6 670	*6 670	*7 960	*7 960	*8 470	6 5 9 0	*6 480	4 270	*5 170	3 100	4 040	2 410	*4 710	2 900
	-9.0 m	kg			*9 560	*9 560	*7 360	6 870	*5 710	4 450	*4 560	3 240	*3 640	2 540	*4 280	3 020
	-10.5 m	kg					*5 630	*5 630	*4 390	*4 390	*3 350	*3 350			*3 520	3 230
	Lifting h				12 m		13.5 m		N	/lax. reac	:h					
Boom: 8.85 m	related ground l		Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	m					
Arm: 6.25 m	12.0 m	kg							*870	*870	10.3					
Shoe: 800 mm	10.5 m	kg							*800	*800	11.6					
CWT: 5 000 kg	9.0 m	kg			*1 450	*1450			*760	*760	12.6					
	7.5 m	kg	*2 230	*2 230	*2 060	*2 060			*740	*740	13.4					
	6.0 m	kg	*2 390	*2 390	*2 330	2 070	*1330	*1330	*740	*740	13.9					
	4.5 m	kg	*2 610	2 530	*2 470	1980	*1 810	1 560	*750	*750	14.3					
	3.0 m	kg	*2 870	2 390	*2 640	1890	*2 160	1500	*780	*780	14.5					
	1.5 m	kg	*3 140	2 240	*2 830	1790	2 400	1 440	*820	*820	14.6					
	0.0 m	kg	*3 390	2 110	2 820	1700	2 3 4 0	1390	*880	*880	14.4					
	-1.5 m	kg	3 330	2 000	2 740	1630	2 300	1350	*970	*970	14.2					
	-3.0 m	kg	3 250	1930	2 690	1580	*1 670	1320	*1 100	*1 100	13.7					
	-4.5 m	kg	3 210		2 670				*1 280	*1 280	13.1					
	-6.0 m	kg	3 220	1900	*2 410	1590			*1 560	1 550	12.3					
	-7.5 m	kg	3 290	1 970					*2 030		11.2					
		kg							*3 020		9.7					
	-10.5 m								*3 250		7.6					

Equipment

STANDARD EQUIPMENT

Engine

Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets EU Stage V requirements

Air filter with indicator

Air intake heater

Cyclone pre-cleaner

Electric engine shut-off

Fuel filter and water separator

Fuel filler pump: 50 I/min, with automatic shut-off

Alternator, 80 A

Standard cooling system by fan clutch(40 deg. C)

Electric / Electronic control system

Contronics

Advanced mode control system

Self-diagnostic system

GSM/GPS Caretrack and 3yr-Caretrack subscription

Machine status indication

Engine speed sensing power control

Automatic idling system

One-touch power boost

Safety stop/start function

Adjustable LCD color monitor

Master electrical disconnect switch

Engine restart prevention circuit

High-capacity halogen or LED lights:

Frame-mounted 2

Boom-mounted 1

Batteries, 2 x 12 V / 140 Ah

Start motor, 24 V / 5.5 kW

Frame

Access way with handrail

Tool storage area

Punched metal anti-slip plates

Under cover (heavy duty)

Full height counterweight:

4 200 kg Long Crawler (L), Narrow Crawler (N)

5 000 kg Narrow Long Crawler (NL), Narrow Heavy (NH), Long Reach (LR)

Undercarriage

Under cover (heavy duty)

Hydraulic track adjusters

Greased and sealed track link

Track Guard

600 mm shoe with triple grousers

800 mm shoe with triple grousers (LR)

Hydraulic system

Boom hose rupture valve with overload warning device

Automatic sensing hydraulic system

Summation system

Arm priority

Swing priority

ECO mode fuel saving technology

Boom, arm and bucket regeneration valves

Swing anti-rebound valves

Boom and arm holding valves

Multi-stage filtering system

Boom cylinders (x2)

Cylinder cushioning

Cylinder contamination seals

Auxiliary hydraulic valve

Automatic two-speed travel motors

Hydraulic oil, longlife oil 46

STANDARD EQUIPMENT

Cab and interior

ROPS (ISO12117-2) certified cab

Silicon oil and rubber mounts with spring

Control lock out lever

Travel pedals and hand levers

Adjustable operator seat with heater and joystick control console

Control joysticks with 4 switches each

Heater & air-conditioner, automatic

Flexible antenna

Radio with MP3 and USB Jack with bluetooth

Cab, all-weather sound suppressed, includes:

Cup holders

Door locks

Tinted glass

Floor mat

Horn

Large storage area

Pull-up type front window

Removable lower windshield

Seat belt

Safety glass

Sun screens, front, roof, rear

Rain shield

Windshield wiper with intermittent feature

Rear view camera

Master key

Digging equipment

Boom: monoblock 5.7 m, Long Reach 8.85 m

Arm: 2.9 m, Long Reach 6.25 m

Manual centralized lubrication

OPTIONAL EQUIPMENT

Engine

Block heater: 120 V, 240 V

Oil bath pre-cleaner

Diesel coolant heater, 5 kW

Water separator with heater

Auto engine shutdown Fuel filler pump, 35 lpm

Tropical cooling system (50 deg. C)

Electric

Extra work lights (Halogen or LED):

Boom-mounted 1

Cab-mounted 3

Counterweight-mounted 1

Travel alarm

Anti-theft system

Rotating warning beacon

Flashing beacon, LED

Side view camera Volvo Smart View (VSV)

Undercarriage

Full track guard

500/600/600 HD/700/800/900 mm shoe with triple grousers

700 mm shoe with double grousers

600 mm shoe with single grouser

OPTIONAL EQUIPMENT

Hydraulic system

Arm hose rupture valve

Boom float function with HRV

Boom float function without HRV

Hydraulic piping:

Work tool management system (up to 20 programmable memories)

Breaker & shear, 1 and 2 pump flow

Slope & rotator (40lpm or 60lpm)

Extra for slope & rotator

Grapple

Oil leak (drain) line

Quick coupler

Breaker & shear pressure pre-setting

Additional return filter

Volvo hydraulic quick coupler S1, S1 without hook

Volvo hydraulic quick coupler VQC-HD, S70 / VQC-HU,DR22

Hydraulic oil, biodegradable 46

Hydraulic oil, longlife oil 32, 46, 68

Machine control system

Dig assist 2D/In-field/Steelwrist

Volvo Active Control (Semi-autonomous)

Please refer to separate Brochure for more details

OPTIONAL EQUIPMENT

Cab and interior

Fabric seat without heater

Fabric seat with heater and air suspension

Control joysticks with semi-long

Control joysticks with 3 switch & 1 propotional

Opening top hatch

Falling object guard (FOG)

Frame-mounted

Cab-mounted

Cab-mounted falling object protective structure (FOPS)

Side view camera

Smoker kit (ashtray and lighter)

Safety net for front window

Sunlight protection, roof (steel)

Lower wiper with intermittent control

Cleaning air gun

Anti-vandalism kit

Specific key

Digging equipment

Boom: 5.7 m monoblock, heavy duty

Boom: 5.57 m 2 piece boom

Arm: 2.0 m, 2.5 m, 2.9 m, 3.5 m

Linkage with lifting eye

Service

Tool kit, daily maintenance

Tool kit, full scale

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Auto engine shutdown



Two-piece boom





LED lights

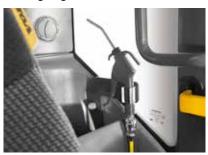


Fuel fill pump



Cleaning air gun

Diesel coolant heater



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.

