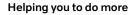
EC380E

Volvo Excavators 38.9-40.6 t 313 hp



A passion for performance

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for industry experts. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.



Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.





You learn a lot in 180 years

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We're on your side

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.













Volvo Trucks

Renault Trucks

































Volvo Penta

Volvo Financial Services

Volvo Construction Equipment

Elite efficiency

Fuel efficiency is at the center of the EC380E crawler excavator. With advanced technology including Volvo's unique ECO mode and a new electro-hydraulic control system, this production machine delivers a 9% improvement in fuel efficiency. Experience efficient production at its best with Volvo.

Advanced hydraulics

The new electro-hydraulic system uses intelligent technology to control on-demand flow and reduce internal losses in the hydraulic circuit. This increases controllability, shortens cycle times and improves fuel efficiency – resulting in higher productivity and performance.



Automatic idling system

Engine speed is reduced to idle when the controls are inactive for a pre-set amount of time (between 3 and 20 seconds). This reduces fuel consumption and noise.

Auto engine shut down

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).

Work modes

Volvo's unique, integrated work mode system now includes the G4 mode for optimum fuel efficiency and machine performance. Operators can choose the best work mode for the task at hand – select from I (Idle), F (Fine), G (General), H (Heavy) and P (Power max).



Fuel consumption display

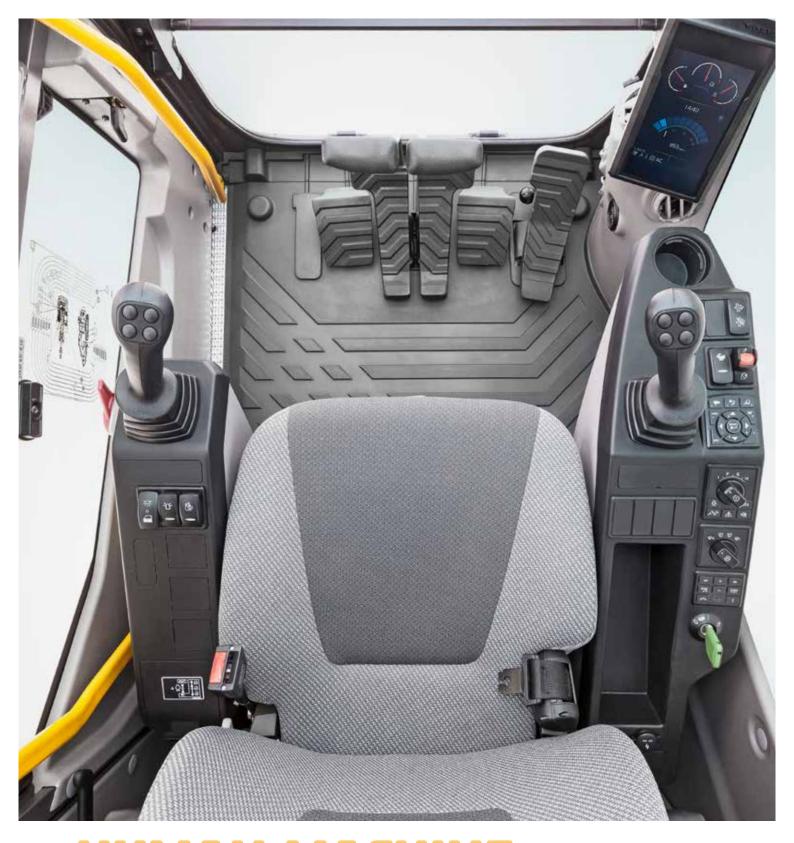
A gauge bar on the monitor measures both instantaneous fuel consumption and average fuel consumption. This allows machine owners and operators to monitor fuel usage on different job sites.





ECO MODE

Volvo's unique ECO mode optimizes the hydraulic system to reduce flow and pressure losses – resulting in improved fuel efficiency without any loss of performance in most operating conditions. ECO mode is automatically selected but can be switched off via the keypad.



HUMAN MACHINE INTERFACE (HMI)

All machine interfaces – including the joysticks, keypad and LCD monitor – are ergonomically positioned and designed for optimum control and efficiency. For operator convenience and ease of use, the number of switches has been significantly reduced.

Boost your productivity

It's a fact that operators work more efficiently when they're given the best tools for the job. That's why, on top of being a superior production machine, the EC380E has an ergonomic design with ideally placed controls and switches. With built in comfort and optimized control, operators will work efficiently and productively all day long.

Keypad

The optimally positioned keypad allows the operator to easily navigate through the LCD monitor and activate machine functions in a safe and comfortable way. The functionality of the camera, air conditioning and lights can be customized via the hot key — enabling the operator to select and save desired configurations.



Shortcut switch

The windshield wipers, camera, audio mute or power max function can be assigned to a shortcut switch located on the joystick. This allows the operator to easily control the selected function by simply pressing a switch.



LCD monitor

The new, color, eight inch LCD monitor displays machine status information including fuel consumption data and service interval alerts — enabling increased uptime and high productivity. The user-friendly design is easy to read in any light conditions.



Seatbelt warning alarm

If the seatbelt is not fastened when the ignition key is turned, a sensor triggers an alarm which sounds for three seconds.

Bluetooth®

For added convenience, operators can now connect a Bluetooth device to the machine.

Non-stop productivity

Experienced and skilled Volvo engineers have developed and rigorously tested Stage V engine systems that deliver the ultimate combination of high productivity and low fuel consumption. Benefit from Volvo's signature high torque at low rpm and experience superior performance and reduced fuel consumption.

Volvo After Treatment System

During the fully automatic regeneration process, particulate matter in the Diesel Particulate Filter is oxidized at low exhaust temperatures via passive regeneration. Volvo uses Selective Catalytic Reduction technology where AdBlue®/Diesel Exhaust Fluid is heated to produce ammonia. This causes a chemical reaction which converts NOx to nitrogen and CO2 – both of which are naturally found in the air. Neither process interrupts machine operation, performance or productivity. ® = registered trademark of the Verband der Automobilindustrie e.V. (VDA)



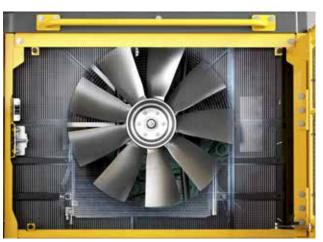
Diesel-driven heater

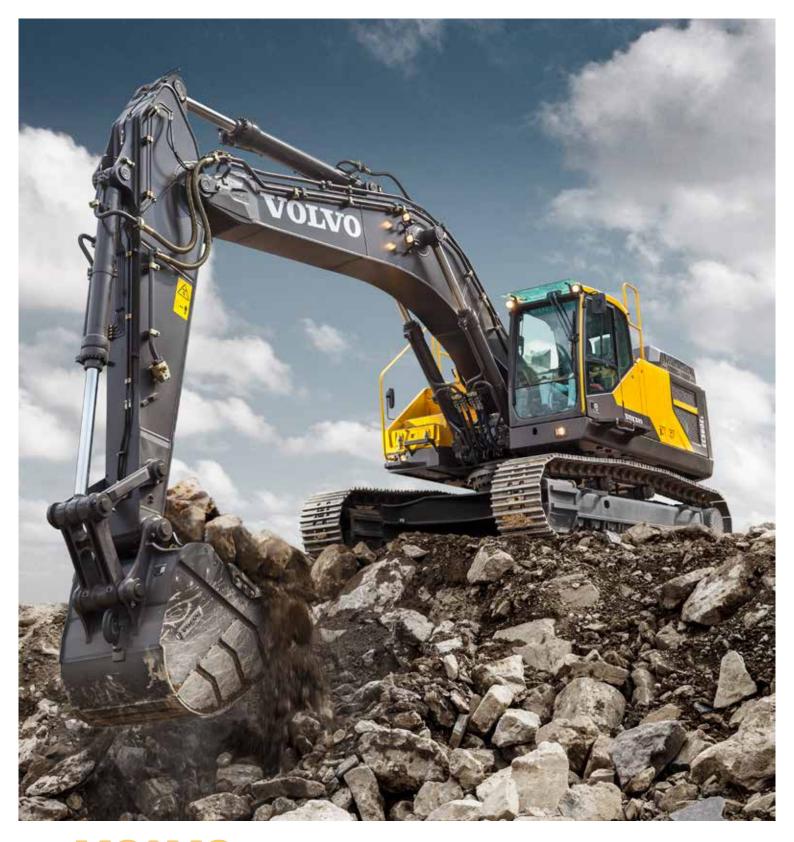
The optional diesel-driven coolant heater helps to start the engine in low temperatures while simultaneously heating the cab. The heater can be set in advance to engage at a specific date and time.



Cooling fan

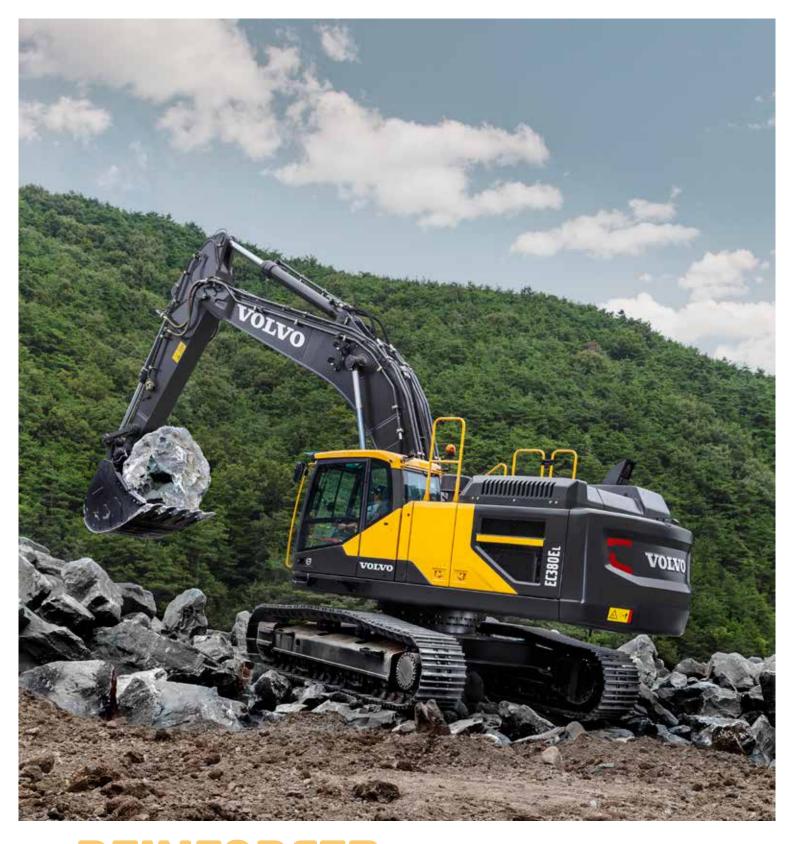
The hydraulically-driven, electronically controlled cooling fan regulates the temperature of the vital components. It automatically activates only when needed – reducing fuel consumption and noise. The optional reversible functionality – which blows air in the opposite direction – enables self-cleaning of the cooling units.





VOLVO Engine

Featuring proven, advanced technology and built on decades of experience, Volvo's robust D13 Stage V engine boasts more power while reducing both fuel consumption and emissions and delivering superior quality, reliability and durability.



REINFORCED UNDERCARRIAGE

With a strong three-piece undercarriage and a high strength tensile steel X-shaped frame, Volvo excavators are built to withstand tough conditions. For superior durability, the undercarriage components are reinforced – ensuring long life and high uptime.

Built to last

From quarries to mass excavation, this heavy-duty production machine has been built to work on tough job sites. Featuring a robust, reinforced structure and high quality welding, the EC380E boasts superior strength and durability. Experience reliability you can count on with Volvo.

Superstructure undercover

The heavy-duty superstructure undercover plates increase durability by providing additional protection to the underside of the machine in tough applications – preventing damage from rock and debris.



Doors and hinges

Volvo's durable design features a rigid side door with a robust handle and hinges for superior durability.



Robust design

The reinforced idler frame, track links and bottom rollers are built to withstand tough conditions for improved durability and reliability in demanding applications.



Up your uptime

At Volvo we believe that maintaining your machine should be as quick and easy as possible. That's why our designers and engineers have developed innovative methods to make maintenance easy. With large, wide opening compartment doors and grouped service points, checks will be carried out faster and you'll get the most out of every operating shift.

Service access

Grouped filters are quick and easy to access from ground level. To facilitate fast servicing, grouped greasing points are easily accessed with the machine in one position.



Anti-slip plates

Punched anti-slip plates provide superior grip and increased safety. The design facilitates easy cleaning.



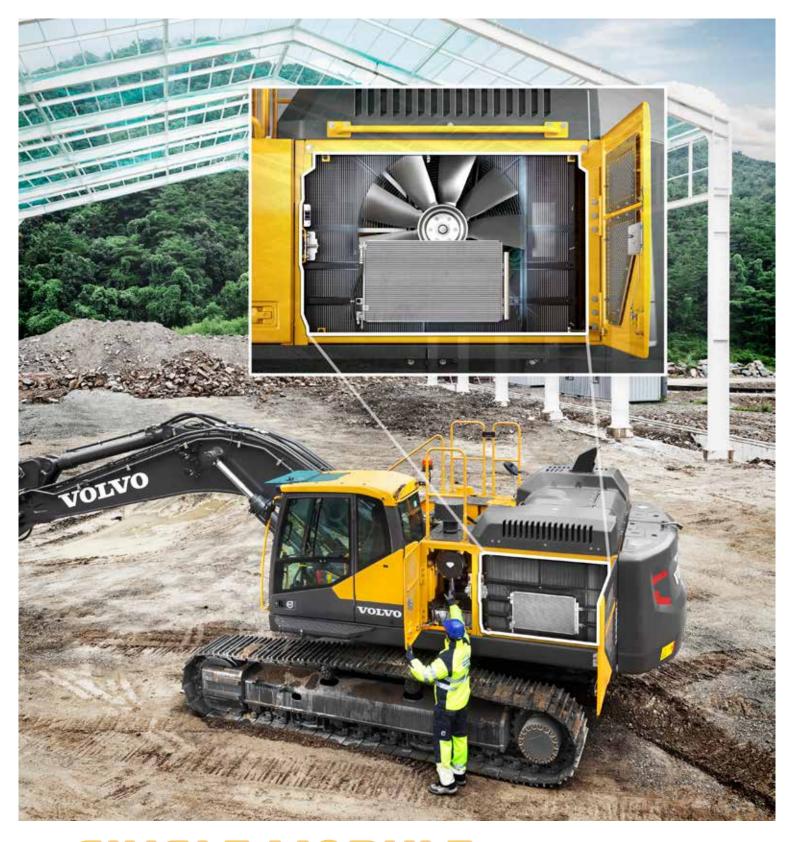
Storage space

A large storage compartment provides a safe and convenient location for items including a toolbox and grease can.



Handrails

Handrails and full size guardrails fold-able provide safe and easy access to the cab and superstructure. The fold-able guardrail is to minimize transportation height when it is folded.



SINGLE MODULE COOLER

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.

Quality counts

Safe access

Punched anti-slip plates, handrails and full size fold-able guardrails provide safe and easy access to the machine.

HUMAN MACHINE INTERFACE (HMI)

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

Advanced hydraulics

New electro-hydraulic system and main control valve use intelligent technology to control on-demand flow for high performance and efficiency.

Bucket range

The Volvo quick coupler offers maximum versatility, picking up a wide variety of attachments.

ATTACHMENTS

Volvo's durable attachments have been purpose-built to deliver maximum productivity and long service life in combination with Volvo machines.

REINFORCED UNDERCARRIAGE

The undercarriage components are reinforced to ensure long life, high uptime and ultimate durability in tough conditions.





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)

LCD monitor

VOLVO

The new, eight inch LCD monitor clearly displays machine status information for easy operation and increased productivity.

HHHHHHH

ECO MODE

Volvo's unique ECO mode improves fuel efficiency without any loss of performance in most operating conditions.

Service access

Grouped filters are quick and easy to access from ground level via large, wide compartment doors.

VOLVO ENGINE

Volvo's D13 Stage V engine boasts more power while reducing both fuel consumption and emissions and delivering superior quality, reliability and durability.

Volvo After Treatment System

The automatic regeneration process takes place without interrupting machine operation, performance or productivity.

itt

SINGLE MODULE COOLER

The radiator, charged air cooler and hydraulic oil cooler are situated side-byside on a single layer to maximize efficiency, reduce blockages and aid cleaning.

The perfect match

Maximize your productivity and profitability with the EC380E and Volvo's durable range of attachments. Increase your versatility, access more applications and effectively perform a variety of tasks – all while experiencing faster cycle times and excellent control. Get the most out of your excavator with Volvo.

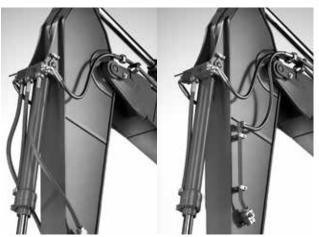
Bucket range

Volvo's general purpose buckets are the perfect tool for digging and re-handling in soft to medium conditions. Heavyduty buckets are intended for productive digging in compact materials. Both provide maximum productivity and long life.



Optional auxiliary hydraulics

Factory fitted breaker and shear piping (X1) as well as tilt and rotator piping (X3) increase versatility by enabling a wide range of additional attachments to be used.



S-type quick coupler

The Volvo S-type quick coupler is designed to work with Volvo attachments – delivering ultimate compatibility and unrivalled performance.



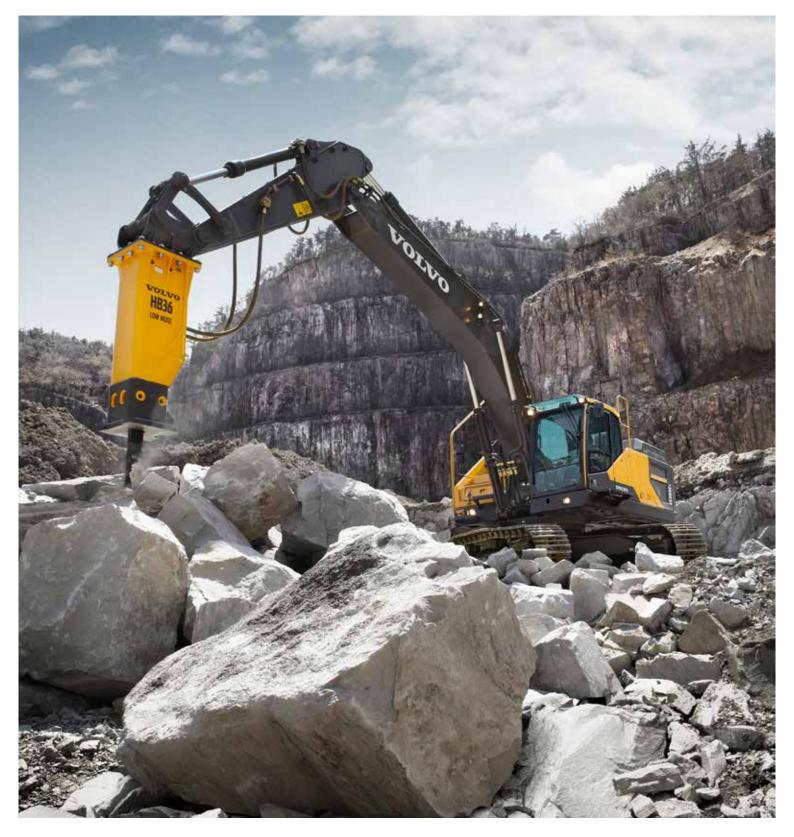
Universal quick coupler

The Volvo universal quick coupler offers maximum versatility. It picks up a variety of attachments from various manufacturers and meets new safety regulations.



Genuine Volvo wear parts

Volvo offers a selection of economic, replaceable wear parts including high quality teeth, segments, side cutters, adapters and shrouds to protect the bucket and ensure long life.



ATTACHMENTS

Volvo's durable attachments have been purposebuilt 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 – delivering maximum productivity.

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.



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 EC380E in detail

Engine

The latest generation, Volvo engine Stage V emissions certified diesel engine fully meets the demands of the latest, emissions regulations. Featuring Volvo Advanced Combustion Technology (V-ACT), it is designed to deliver superior performance and fuel efficiency. The engine uses precise, highpressure fuel injectors, turbo charger and air-to-air intercooler, and electronic engine controls to optimize machine

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.

Volvo	D13J
r/min	1700
kW	229
hp	311
kW	230
hp	313
Nm	1 692
r/min	1 275
	6
1	12.8
mm	131
mm	158
	r/min kW hp kW hp Nm r/min

Electrical system

High-capacity electrical system that is well protected. Waterproof doublelock 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	200
Alternator	V/A	28/80

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	10.2
Max. slew torque	kNm	130.5

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

Max. drawbar pull	kN	276.5
Max. travel speed (low)	km/h	3.4
Max. travel speed (high)	km/h	5.3
Gradeability	٥	35

Undercarriage

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

Track shoes		2 x 50
Link pitch	mm	215.9
Shoe width, triple grouser	mm	600/600HD/ 700/800/900
Shoe width, double grouser	mm	600
Bottom rollers		2 x 9
Top rollers		2 x 2

Sound Level

Sound pressure level in cab according to	ISO 6396	
L_pA	dB	71
External sound level according to ISO 6395	and EU Noise Directive 200	0/14/EC
Lwa	dB	105

Hvdraulic system

The new electro-hydraulic system and new MCV (main control valve) use intelligent technology to control on-demand flow for highproductivity, high-digging capacity and excellent fuel consumption.

The following important functions are included in the system for optimum performance:

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

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 p	oumps
Maximum flow	l/min	2 x 300
Pilot pump, Type Gear pump		
Maximum flow	l/min	32.6
Implement	MPa	32.4/35.3
Travel circuit	MPa	35.3
Slew circuit	MPa	27.9
Pilot circuit	MPa	3.9

Hydraulic Motors

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

Hydraulic Cylinders

nyuraulic Cylliluers		
Mono boom		2
Bore x Stroke	ø x mm	160 x 1 530
Arm		1
Bore x Stroke	ø x mm	175 x 1 700
Bucket		1
Bore x Stroke	ø x mm	145 x 1 285
ME Bucket		1
Bore x Stroke	ø x mm	160 x 1 250
Bucket for LR boom		1
Bore x Stroke	ø x mm	140 x 1 140
Service Refill		
Fuel tank	- 1	620
DEF/AdBlue® tank	1	62.5
Hydraulic system, total	1	500
Hydraulic tank	1	225
Engine oil	1	42
Engine coolant	1	60
Slew reduction unit	1	6.5
Travel reduction unit	1	2 x 6.8

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 $\acute{\rm f}$ ront glass can be removed and stored in the side door.

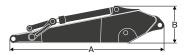
Integrated airconditioning and heating system: The pressurized and filtered cab air is supplied by an automaticallycontrolled fan. The air is distributed throughout the cab from 14 vents.

Ergonomic operator's seat: The adjustable seat and joystick console move

independently to accommodate the operator. The seat has 12 different adjustments plus a seat belt for the operator's comfort and safety. Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1430 CO2-eq.

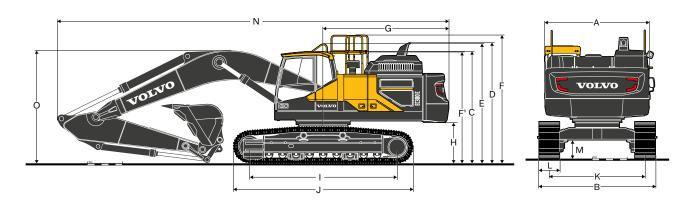
Specifications





DIMENSIONS								
	Во	om		Arm				
	Unit	mono	mono	Description	Unit			
Boom	m	6.2 ME	6.45 HD	Arm	m	2.6	3.2 HD	3.9
Α	mm	6 460	6 700	Α	mm	3 780	4 360	5 080
В	mm	1 740	1800	В	mm	1 145	1 145	1 145
Width	mm	820	820	Width	mm	560	560	560
Weight	kg	3 355	3 310	Weight	kg	2 050	2 180	2 300

^{*} Includes arm cylinder, piping and pin

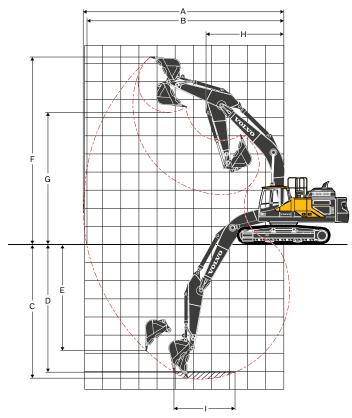


DIMENSIONS									
Description	BOEL		EC380ENL						
Boom	m	6.2		6.45		6.2	6.2 6.45		
Arm	m	2.6	2.6	3.2	3.9	2.6	2.6	3.2	3.9
A. Overall width of upper structure	mm	2 990	2 990	2 990	2 990	2 990	2 990	2 990	2 990
B. Overall width	mm	3 340	3 340	3 340	3 340	2 990	2 990	2 990	2 990
C. Overall height of cab	mm	3 220	3 220	3 220	3 220	3 220	3 220	3 220	3 220
D. Overall height of diffuser	mm	3 465	3 465	3 465	3 465	3 465	3 465	3 465	3 465
E. Overall height of handrail	mm	3 440	3 440	3 440	3 440	3 440	3 440	3 440	3 440
F. Overall height of guardrail (unfolded)	mm	3 685	3 685	3 685	3 685	3 685	3 685	3 685	3 685
F'. Overall height of guardrail (folded)	mm	3 215	3 215	3 215	3 215	3 215	3 215	3 215	3 215
G. Tail swing radius	mm	3 600	3 600	3 600	3 600	3 600	3 600	3 600	3 600
H. Counterweight clearance *	mm	1 150	1 150	1 150	1 150	1 150	1 150	1150	1150
I. Tumbler length	mm	4 240	4 240	4 240	4 240	4 240	4 240	4 240	4 240
J. Track length	mm	5 180	5 180	5 180	5 180	5 180	5 180	5 180	5 180
K. Track gauge	mm	2 740	2 740	2 740	2 740	2 390	2 390	2 390	2 390
L. Shoe width	mm	600	600	600	600	600	600	600	600
M. Min. ground clearance *	mm	500	500	500	500	500	500	500	500
N. Overall length	mm	11 060	11 310	11 220	11 270	11 060	11 310	11 220	11 270
O. Overall height of boom	mm	3 610	3 580	3 360	3 605	3 610	3 580	3 360	3 605

^{*} Without shoe grouser

^{*} Includes bucket cylinder, linkage and pin

Specifications



VORKING RANGE							
escription		Unit	EC380E				
loom		m	6.2	6.45			
ırm		m	2.6	2.6 3.2		3.9	
A. Max. digging rea	ch	mm	10 450	10 695	11 220	11 855	
B. Max. digging rea	ch on ground	mm	10 225	10 480	11 010	11 665	
C. Max. digging dep	oth	mm	6 755	6 990	7 590	8 290	
D. Max. digging dep	oth (2.44 m level)	mm	6 575	6 805	7 425	8 145	
E. Max. vertical wall digging depth		mm	4 860	5 000	5 510	6 110	
F. Max. cutting heig	ıht	mm	10 055	10 195	10 370	10 640	
G. Max. dumping he	eight	mm	6 800	6 950	7 140	7 415	
H. Min. front slew r	adius	mm	4 090	4 290	4 280	4 305	
igging forces with	h direct fit bucket						
Breakout force -	SAE J1179	kN	214.5	198.0	198.0	198.0	
bucket	SAE J1179	kN	234.5	215.0	215.0	215.0	
(Normal/Power	ISO 6015	kN	243.4	221.7	221.7	221.7	
boost)	ISO 6015	kN	265.4	242.7	242.7	242.7	
Tearout force -	SAE J1179	kN	187.7	195.9	161.9	141.3	
dipper arm	SAE J1179	kN	205.7	212.9	176.9	154.3	
(Normal/Power	ISO 6015	kN	193.9	201.1	166.0	144.4	
boost)	ISO 6015	kN	211.9	219.1	181.0	157.4	

Description	Shoe width	Operating weight	Ground pressure	Operating weight	Ground pressure
	mm	kg	kPa	kg	kPa
Triple grouser	600	39 245	71.6	38 865	70.9
	700	39 690	62.0	39 305	61.4
	800	40 140	54.9	39 755	54.4
	900	40 585	49.3	40 200	48.9
Triple grouser(HD)	600	39 675	72.4	39 290	71.7
Double grouser	600	39 525	72.1	39 140	71.4

EC380E with LC undercarriage, 6.45 m boom, 3.2 m arm, 1 574 kg bucket, 6 700 kg counterweight EC380E with NLC undercarriage, 6.45 m boom, 3.2 m arm, 1574 kg bucket, 6 700 kg counterweight

BUCKET	PELECTIO	IN GUIDE				1				1				
								OENL		EC380EL 600 mm shoe, 6 700 kg counterweight				
Bucket type		Capacity	Cutting width	Weight	Teeth	600 mm	shoe, 6 70	00 kg coun	terweight	600 mm	shoe, 6 70	00 kg coun	terweight	
			Widti.			Boom	6	.45 m Boo	m	Boom	6.45 m Boom			
		L	mm	kg	EA	2.6 m	2.6 m	3.2 m	3.9 m	2.6 m	2.6 m	3.2 m	3.9 m	
		870	750	1 176	3	С	С	С	С	С	С	С	С	
		1 000	900	1 271	4	С	С	С	С	С	С	С	С	
	General	1420	1200	1 514	5	С	С	С	С	С	С	С	С	
	purpose	1 670	1350	1629	5	С	С	С	С	С	С	С	С	
Direct fit		1920	1500	1769	5	С	С	С	С	С	С	С	С	
Buckets		2 330	1 750	1986	5	С	С	С	В	С	С	С	В	
		1000	900	1 425	4	D	D	D	D	D	D	D	D	
	Heavy	1420	1200	1 699	5	D	D	D	D	D	D	D	D	
	duty	1920	1500	1 970	5	D	D	D	С	D	D	D	С	
		2 330	1750	2 175	5	D	D	С	В	D	D	С	В	
		870	750	1 176	3	С	С	С	С	С	С	С	С	
		1 000	900	1 271	4	С	С	С	С	С	С	С	С	
	General purpose	1 420	1200	1 514	5	С	С	С	С	С	С	С	С	
Direct fit		1 670	1350	1629	5	С	С	С	С	С	С	С	С	
Buckets		1920	1500	1 769	5	С	С	С	В	С	С	С	С	
(UQC		2 330	1750	1967	5	С	С	В	Α	С	С	В	Α	
interface)		1 000	900	1 425	4	D	D	D	D	D	D	D	D	
	Heavy	1420	1200	1 699	5	D	D	D	D	D	D	D	D	
	duty	1920	1500	1970	5	D	D	D	В	D	D	D	В	
		2 330	1 750	2 175	5	В	Α	Χ	Χ	В	В	Α	Χ	
		1000	900	1239	4	С	С	С	С	С	С	С	С	
		1420	1200	1482	5	С	С	С	С	С	С	С	С	
	General purpose	1 670	1350	1 597	5	С	С	С	С	С	С	С	С	
Quick	purpose	1920	1500	1720	5	С	С	С	В	С	С	С	С	
coupler		2 330	1750	1 911	5	С	С	С	Α	С	С	С	В	
Buckets (S3 Quick		1 000	900	1 393	4	D	D	D	D	D	D	D	D	
(S3 Quick coupler)		1 420	1200	1648	5	D	D	D	D	D	D	D	D	
	Heavy	1 670	1350	1 791	5	D	D	D	С	D	D	D	D	
	duty	1 920	1500	1 921	5	D	D	С	В	D	D	D	В	
		2 330	1 750	2 119	5	С	С	В	Α	С	С	В	А	

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.

X : Not recommended

Maximum materal density

- A 1200 1300 kg/m3 Coal, Caliche, Shale B 1400 1600 kg/m3 Wet earth and clay, Limestone, Sandstone
- C $\,1700-1800\,kg/m3$ Granite, Wet sand, Well blasted rock
- $D > 1900 \text{ kg/m3}^{-}$ Wet mud, Iron ore

Specifications

LIFTING CAPACITY EC380EL Lifting capacity at the arm end without bucket.

	Lifting h		1.5	m	3.0) m	4.5	m	6.0) m	7.5	m	9.0) m	Ma	ax. reach	1
	related groun- level		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							*10 700	*10.700					*10 870	10.200	6.7
	6m	kg									*10 740	8 420			*10 760		7.7
	4.5 m	kg					*15 850	*15 850	*12 670	11620	*11 200	8 250			10 840	7 0 5 0	8.3
Boom: 6.2m	3 m	kg					*19 770	16 820	*14 470	11 060	*12 030	8 000			10 120	6 540	8.6
Arm: 2.6m Shoe:600mm	1.5 m	kg					*22 280	15 990	*15 980	10 600	12 180	7760			9 9 5 0	6400	8.6
CWT : 6 700kg	0 m	kg							*16 750		12 010	7 600			10 300	6 600	8.3
o	-1.5 m	kg							*16 560		11 990	7 590			11 370	7 2 3 0	7.8
	-3 m	kg			*26 490	*26 490			*15 050	10 430					*12 530		6.9
	-4.5 m	kg					*15 320	*15 320							*12 280		
	7.5 m 6 m	kg							*11 000	*11 000	*10 360	0.460			*10 420 *10 360		7.0
	4.5 m	kg kg					*16.080	*16.080	*12 580		*10 970	8 250			10.340	6 730	3.8
Boom : 6.45m	3 m	kg					10 000	10 000			*11 870	7 9 7 0			9 680	6 270	8.8
Arm : 2.6m	1.5 m	kg							*15 940		12 140	7720			9 520	6 130	8.8
Shoe: 600mm	0 m	kg					*21850	15 620	*16 690			7560			9830	6300	8.6
CWT : 6 700kg	-1.5 m	kg			*14 880	*14 880	*21890	15 660	*16 550	10 220	11 930	7 530			10 770	6 870	8.
	-3 m	kg			*26 310	*26 310	*19 940	15 890	*15 270	10 350					*12 160	8 130	7.2
	-4.5 m	kg			*20 930	*20 930	*16 070	*16 070				_			*12 110	11 280	5.8
	7.5 m	kg									*9 370	8 670				*8 200	
	6 m	kg					+11050	+11050	+44.040	+44 040	*9 500	8 600	+0.700	0.000	*7980	6 9 2 0	8.5
Boom : 6.45m	4.5 m	kg									*10 260		*8 790	6230	*8 060	6 150	9.1
Arm: 3.2m	3 m	kg							*13 580 *15 330		*11 290 12 190	8 050 7 760	9 410 9 260	6 100 5 960	*8 390 8 740	5 760 5 630	9.3
Shoe: 600mm	0 m	kg kg							*16 410		11 950	7 550	9 150	5 8 7 0	8 970	5 750	9.4
CWT: 6 700kg	-1.5 m	kg			*15 110	*15 110			*16 640		11 850	7460	3 130	3010	9 690	6190	8.6
	-3 m	kg	*17 590	*17 590	*23 840						11930	7 520			11240	7 130	7.8
	-4.5 m	kg							*13 490						*11830		6.6
	9 m	kg													*6 920	*6 920	7.2
	7.5 m	kg									*8 160	*8 160			*6 470	*6 470	8.4
	6 m	kg									*8 510	*8 510	*7 680	6 430	*6 310	6 140	9.2
	4.5 m	kg							*10 380	*10.380	*9380	8 480	*8 850	6320	*6 370	5 5 3 0	9.7
Boom : 6.45m																	
Arm: 3.9m	3 m	kg							*12 460		*10 510	8 130	*9 430	6140	*6 600	5 200	10.0
Shoe : 600mm CWT : 6 700kg	1.5 m	kg			*0.200	*0.200			*14 440 *15 870		*11 650 11 940	7 790 7 530	9 270	5 9 6 0 5 8 1 0	*7 040 *7 760	5 080	10.0
CVV1.0700kg	0 m	kg kg	*9 510	*Q 510	*14 220						11 770	7 370	9 030	5740	8 590	5 480	9.3
	-3 m				*20 550						11750	7360	3 000	3740	9 710	6160	8.6
	-4.5 m				*27500						11700	1 000			*11 110	7590	7.5
	-6 m	kg					*15 130								*11300		5.8
	7.5 m	kg							*10 700	*10 700					*10 870		
	6 m	kg							*11220	*11 220	*10 740	8 680			*10 760	8340	7.7
Boom: 6.2m	4.5 m	kg							*12 670		*11200	8 520			*10 870		8.3
Arm: 2.6m	3 m	kg							*14 470	11 420	*12 030	8 260			10 400	6 770	8.6
Shoe: 600mm	1.5 m	kg							*15 980			8 0 2 0			10 230		8.6
CWT : 7 250kg	0 m	kg			*17.770	*17.770			*16 750			7 870			10 600	6830	8.3
-	-1.5 m -3 m	kg							*16 560 *15 050		12 340	7 850			11 700 *12 530	7480 8990	7.8 6.9
	-3 m	kg kg			20490	20490	*15 320		15 050	10 / 60					*12 280		
	7.5 m	kg					10020	10 020							*10 420		7.0
	6 m	kg							*11 020	*11.020	*10 360	8720			*10 360		8.0
	4.5 m	kg					*16 080	*16 080				8 510			*10 480		8.5
Boom : 6.45m	3 m	kg									*11870	8240			9 950	6480	8.8
Arm: 2.6m	1.5 m	kg							*15 940			7 990			9800	6350	8.8
Shoe : 600mm CWT : 7 250kg	0 m	kg					*21850	16 140	*16 690			7830			10 120	6 5 3 0	8.6
OW1.7200Kg	-1.5 m	kg							*16 550		12 280	7800			11 090	7 110	8.1
	-3 m	kg							*15 270	10 700					*12 160		7.2
	-4.5 m	kg			*20 930	*20 930	*16 070	*16 070			40.0==	0.00			*12 110		5.8
	7.5 m	kg									*9 370					*8 200	
	6 m	kg					*14.050	*14.050	*11.010	*11.010		8 860	*0.700	CAEC	*7980	7140	8.5
Boom : 6.45m	4.5 m	kg									*10 260 *11 290		*8 790	6 450	*8 060	6360 5960	9.1
Arm: 3.2m	3 m	kg kg									*12 280	8 310	9 680 9 530	6320 6170	*8 390 8 990	5 8 3 0	9.3
Shoe: 600mm	0 m	kg							*16 410			7810	9 420	6 080	9 240	5960	9.4
CWT : 7 250kg	-1.5 m	kg			*15 110	*15 110			*16 640			7720	5 1/20	5 550	9980	6 410	8.6
•		9															
· ·	-3 m	ka	*17 590	*17 590	*23 840	*23 840	*20 970	16 200	*15.880	10 550	*12 270	7 790			*11 520	7380	7.8

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 EC380EL

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.

	Lifting hook related to ground level		1.5	m	3.0) m	4.5	m	6.0) m	7.5	m	9.0) m	Ma	ax. reach	
_			Along UC	Across UC	m												
	9 m	kg													*6920	*6 920	7.2
	7.5 m	kg									*8 160	*8 160			*6 470	*6 470	8.4
	6m	kg									*8 510	*8 510	*7680	6 640	*6 310	*6310	9.2
Boom : 6.45m	4.5 m	kg							*10 380	*10 380	*9380	8740	*8 850	6 530	*6 370	5720	9.7
Arm: 3.9m	3 m	kg					*16 410	*16 410	*12 460	11 710	*10 510	8 4 0 0	*9430	6360	*6 600	5380	10.0
Shoe: 600mm	1.5 m	kg					*20 040	16 850	*14 440	11 090	*11650	8 060	9 540	6 170	*7 040	5 260	10.0
CWT: 7 250kg	0 m	kg			*9320	*9320	*22 030	16 170	*15 870	10 650	12 290	7 790	9 370	6 0 2 0	*7 760	5350	9.8
CVV1.7 230kg	-1.5 m	kg	*9 510	*9 510	*14 220	*14 220	*22 500	15 930	*16 510	10 420	12 120	7 640	9 300	5 9 6 0	8 850	5 680	9.3
	-3 m	kg	*14830	*14 830	*20 550	*20 550	*21740	15 960	*16 250	10 390	12 100	7 620			9 9 9 0	6390	8.6
	-4.5 m	kg	*21 190	*21 190	*27 500	*27 500	*19 600	16 220	*14 770	10 550					*11 110	7 850	7.5
	-6 m	kg			*20 790	*20 790	*15 130	*15 130							*11300	*11 300	5.8

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 EC380ENL

Lifting capacity at the arm end without bucket.

For lifting capacity inc	luding bu	ıcket,	simply s	ubtract a	actual we	eight of th	ne direct	fit bucke	t or the b	ucket wi	th quick	coupler f	om the following		values.		
	Lifting hook		1.5 m		3.0) m	4.5	m	6.0) m	7.5	m	9.0) m	Max. reach		
	related grour leve	nd	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	m								
	7.5 m	kg							*10 730	*10 730					*10 900	9 180	6.7
	6 m	kg							*11 250	10 850	*10 770	7 580			*10 800	7280	7.7
	4.5 m	kg					*15 890	*15 890	*12 700	10 400	*11230	7430			*10 900	6350	8.3
Boom: 6.2m	3 m	kg					*19 810	14 740	*14 500	9 870	*12 070	7 180			10 320	5880	8.6
Arm: 2.6m Shoe: 600mm	1.5 m	kg					*22 330	13 960	*16 020	9 4 3 0	12 420	6 9 5 0			10 150	5 750	8.6
CWT: 7 250kg	0 m	kg					*22 870	13 710	*16 800	9 170	12 250	6800			10 520	5 9 1 0	8.4
011.1.1 200.tg	-1.5 m	kg			*17 780	*17 780	*22 050	13 730	*16 610	9 120	12 240	6790			11 600	6 480	7.8
	-3 m	kg			*26 540	*26 540	*19 900	13 950	*15 090	9 2 5 0					*12 560	7 760	6.9
	-4.5 m	kg					*15360	14 450							*12 310		5.4
	7.5 m	kg													*10 420	8 530	7.0
	6m	kg									*10 360				*10 360		8.0
	4.5 m	kg					*16 080	15 750	*12 580		*10 970	7 400			*10 480	6 030	8.5
Boom: 6.45m Arm: 2.6m	3 m	kg							*14 430	9 760	*11 870	7130			9850	5 610	8.8
Shoe: 600mm	1.5 m	kg							*15 940	9320	12 360	6890			9 690	5 480	8.8
CWT: 7 250kg	0 m	kg					*21850	13 560	*16 690	9 070	12 180	6730			10 010	5 620	8.6
g	-1.5 m	kg							*16 550		12 140	6700			10 970	6 120	8.1
	-3 m	kg							*15 270	9 140					*12 160	7240	7.2
	-4.5 m	kg			*20 930	*20 930	*16 070	14 270							*12 110	9 990	5.8
	7.5 m	kg									*9 370	7800			*8 200	7 510	7.7
	6 m	kg									*9 500	7 730			*7980	6 220	8.5
D 0.45	4.5 m	kg					*14 350				*10 260		*8 790	5 590	*8 060	5 520	9.1
Boom : 6.45m Arm : 3.2m	3 m	kg							*13 580		*11 290	7200	9 580	5 4 6 0	*8 390	5 150	9.3
Shoe: 600mm	1.5 m	kg							*15 330		*12 280	6 9 1 0	9420	5330	8 8 9 0	5 0 3 0	9.4
CWT: 7 250kg	0 m	kg							*16 410	9 080	12 170	6 710	9320	5 230	9 130	5 130	9.1
3	-1.5 m	kg							*16 640		12 070	6 620			9 870	5 510	8.6
	-3 m		*17 590	*17 590					*15 880		12 140	6 690			11440	6 350	7.8
	-4.5 m	kg			*24 300	*24 300	*17 980	13 970	*13 490	9 260						8 230	6.6
	9 m	kg													*6 920	*6920	7.2
	7.5 m	kg									*8 160	8 010			*6 470	*6 470	8.4
	6 m	kg									*8 510	7880	*7 680	5 780	*6310	5 520	9.2
Da C 45	4.5 m	kg							*10 380			7 610	*8 850	5 670	*6 370	4 950	9.7
Boom : 6.45m Arm : 3.9m	3 m	kg							*12 460		*10 510	7 280	*9 430	5 500	*6 600	4 640	10.0
Shoe: 600mm	1.5 m	kg					*20 040	-	-		*11650	6 9 5 0	9 4 3 0	5320	*7040	4 530	10.0
CWT: 7 250kg	0 m	kg			*9 320		*22 030			9 090	12 160	6 690	9 270	5180	*7760	4600	9.8
J	-1.5 m	kg					*22 500			8 870	11 980	6 5 4 0	9 200	5 110	8 750	4880	9.3
	-3 m								*16 250		11 970	6 5 2 0			9 880	5 480	8.6
	-4.5 m	kg	*21190	*21190					*14 770	8 9 9 0					*11 110	6740	7.5
	-6 m	kg			*20 790	*20 790	*15 130	14 160							*11300	9 9 9 0	5.8

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 l/min, with automatic shut-off

Alternator, 80 A

Electric / Electronic control system

Contronics

Advanced mode control system

Self-diagnostic system

Machine status indication

Engine speed sensing power control

Automatic idling system

One-touch power boost

Safety stop/start function

Adjustable 8inch LCD color monitor

Master electrical disconnect switch

Engine restart prevention circuit

High-capacity halogen lights:

Frame-mounted 2

Boom-mounted 2

Batteries, 2 x 12 V / 200 Ah

Start motor, 24 V / 7 kW

Frame

Access way with handrail

Tool storage area

Punched metal anti-slip plates

Undercover (heavy-duty)

Undercarriage

Undercover (heavy-duty)

Hydraulic track adjusters

Greased and sealed track link

Track Guard

Hydraulic system

Hose rupture valve: boom

Overload warning device

Automatic sensing hydraulic system

2-pump flow bucket circuit

Summation system

Boom priority

Arm priority

Swing priority

Boom, arm and bucket 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

Hydraulic oil, ISO VG 46

STANDARD EQUIPMENT

Cab and interior

ROPS (ISO12117-2) certified cab

Silicon oil and rubber mounts with spring

Travel pedals and hand levers

Adjustable operator seat and joystick control console

Control joysticks with 4 switches each

Heater & air-conditioner, automatic

Flexible antenna

AM/FM stereo with MP3, USB and bluetooth input

Hydraulic safety lock lever

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

Track shoes

600 mm with triple grousers

Digging Equipment

Boom: 6.45 m HD

Arm: 3.2 m HD

Manual centralized lubrication

OPTIONAL EQUIPMENT

Engine

Block heater: 120 V, 240 V

Oil bath pre-cleaner

Diesel coolant heater, 10 kW

Water separator with heater

Auto engine shutdown

Electric

Extra work lights: Halogen/LED

Cab-mounted 3

Boom-mounted 2

Counterweight-mounted 1

Travel alarm

Anti-theft system

Rotating warning beacon

Undercarriage

Full track guard

OPTIONAL EQUIPMENT

Hydraulic system

Hose rupture valve: arm

Boom float function

Hydraulic piping:

Work tool management system (up to 20 programmable memories)

Hammer & shear, 1 and 2 pump flow

Hammer & shear:

variable flow and pressure pre-setting

Additional return filter

Slope & rotator

Grapple

Oil leak (drain) line

Quick coupler piping

Volvo hydraulic quick coupler S3

Volvo hydraulic quick coupler VQC-HU

Volvo hydraulic quick coupler DR38

Hydraulic oil, ISO VG 32

Hydraulic oil, ISO VG 46

Hydraulic oil, ISO VG 68

Hydraulic oil, biodegradable 46

Hydraulic oil, longlife oil 32

Hydraulic oil, longlife oil 46

Hydraulic oil, longlife oil 68

Counterweight

6 200 kg, 6 700 kg, 7 250 kg

OPTIONAL EQUIPMENT

Cab and interior

Fabric seat with heater

Fabric seat with heater and air suspension

Pilot control pattern change

Opening top hatch

Falling object guard (FOG)

Frame-mounted

Cab-mounted

Cab-mounted falling object protective structure (FOPS)

Smoker kit (ashtray and lighter)

Safety net for front window

Lower wiper with intermittent control

Anti-vandalism kit

Specific key

Track shoes

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

Track shoes 600 mm HD with triple grousers and HD links

Track shoes 600 mm with double grousers

Digging Equipment

Boom: 6.2 m ME

Arm: 2.6 m ME, 3.9 m HD

Linkage with lifting eye

Service

Tool kit, daily maintenance

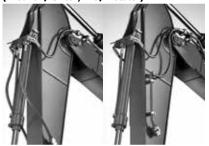
Tool kit, full scale

Automatic lubrication system

Air compressor

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Auxiliary hydraulics, (Breaker / Shear, Tilt / Rotator)



Side-view camera



LED Lights



Air compressor



Mass excavation



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.

