

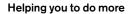
EC380E

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

UD Trucks

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

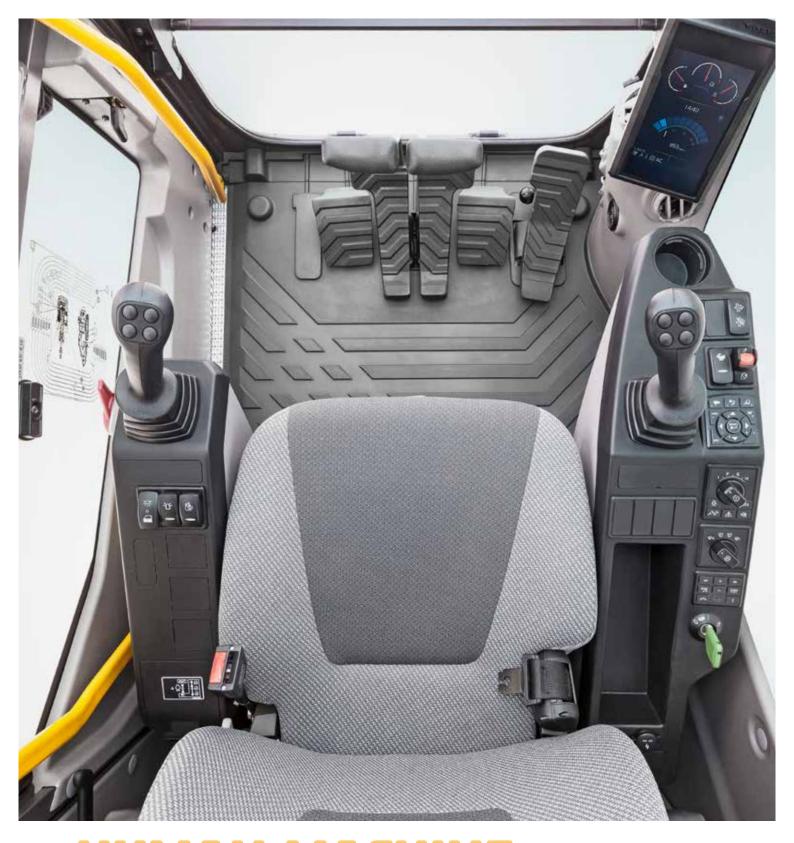
A gauge bar on the monitor measures both instantaneous fuel consumption and average fuel consumption. This allows machine owners and operators to monitor fuel usage on different job sites.





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 IV/Tier 4 Final 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

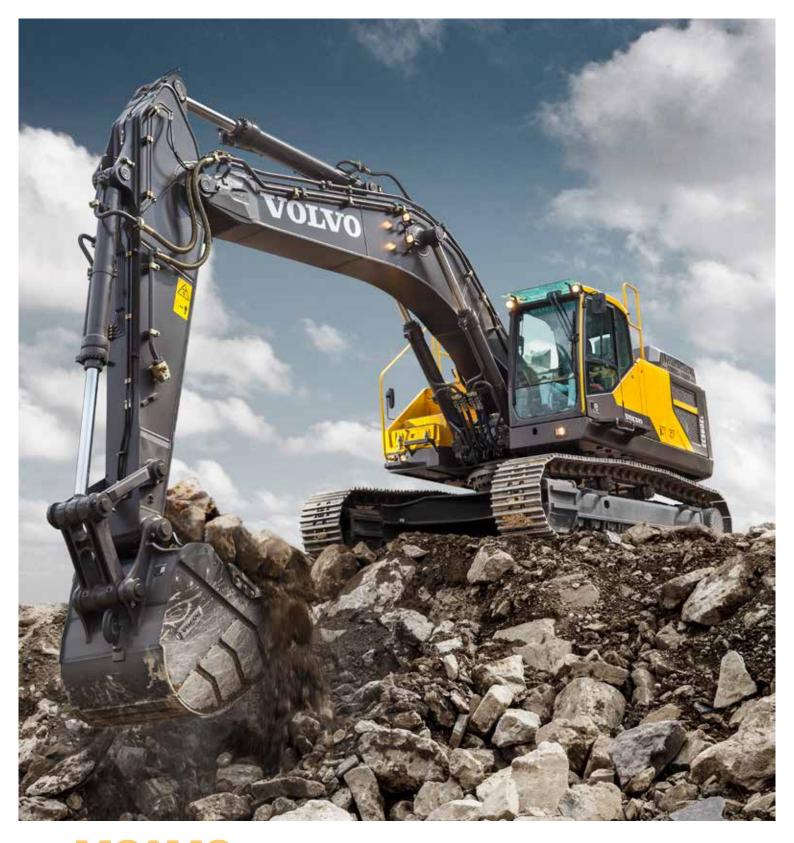
The optional diesel-driven coolant heater helps to start the engine in low temperatures while simultaneously heating the cab. The heater can be set in advance to engage at a specific date and time.



Cooling fan

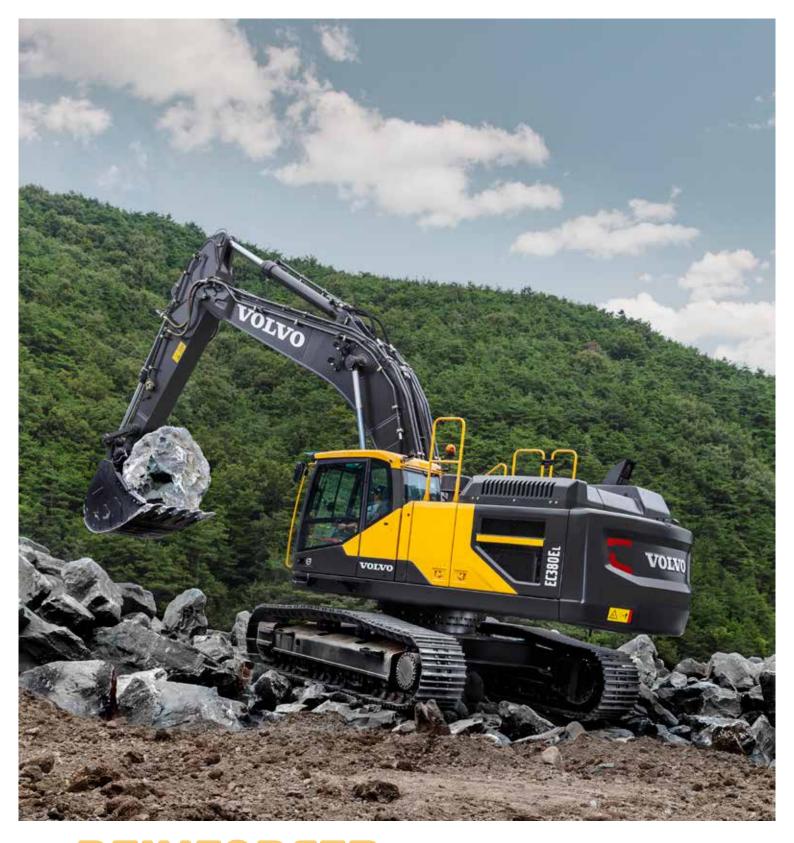
The hydraulically-driven, electronically controlled cooling fan regulates the temperature of the vital components. It automatically activates only when needed – reducing fuel consumption and noise. The optional reversible functionality – which blows air in the opposite direction – enables self-cleaning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





VOLVO Engine

Featuring proven, advanced technology and built on decades of experience, Volvo's robust D13 Stage IV/Tier 4 Final 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.



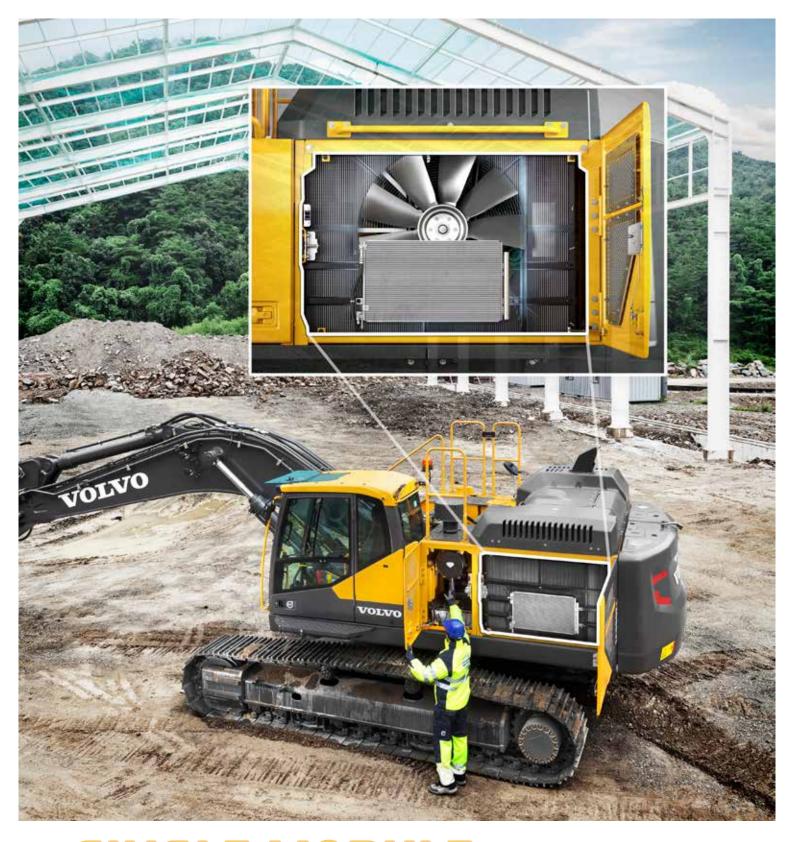
Storage space

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 IV/Tier 4 Final 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.

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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. Heavy-duty 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.



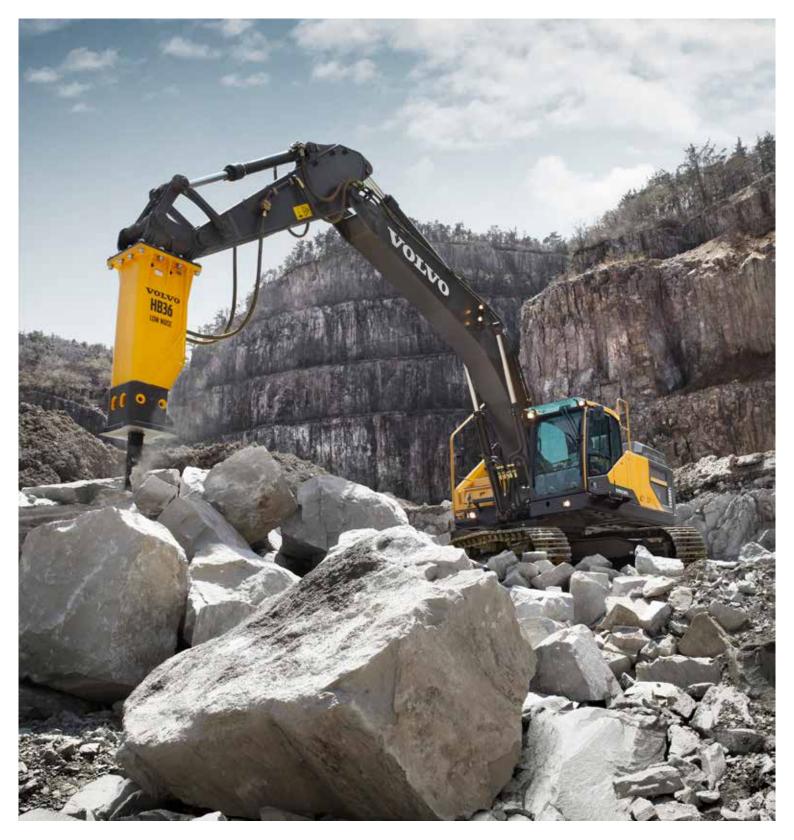
Universal quick coupler

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 Tier 4f (Stage IV) emissions certified diesel rine fatest generation, volvo engine Tier 41 (Stage IV) emissions certified dieser 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 performance.
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	D13J
Max power at	r/min	1 700
Net, ISO 9249/SAE J1349	kW	229
	hp	311
Gross, ISO 14396/SAE J1995	kW	230
	hp	313
Max torque	Nm	1 692
at engine speed	r/min	1 275
No. of cylinders		6
Displacement	1	12.8
Bore	mm	131
Stroke	mm	158

Electrical system

High-capacity electrical system that is well protected. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. 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 torque	kNm	130.5
Max. slew speed	r/min	10.2

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. travel speed (low)	km/h	3.4
Max. travel speed (high)	km/h	5.3
Gradeability	0	35

Undercarriage

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

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 level in cab according to ISO 63	396	
LpA	dB(A)	71
External sound level according to ISO (2000/14/EC) and 474-1:2006 +A1:		

LwA 105

Hydraulic system

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

The following important functions are included in the system for optimum

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

Main pump, Type 2 x variable displacement axial piston pumps

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

Hvdraulic Motors

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

Hydraulic Cylinders		
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	I	62.5
Hydraulic system, total	1	500
Hydraulic tank	1	225
Engine oil	1	42
Engine coolant	I	60
Slew reduction unit	1	6.5
Travel reduction unit	I	2 x 6.8

Cab

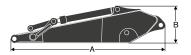
The operator's cab has easy access via a wide door opening. The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels. The cab has excellent all-round visibility. The front windshield can easily slide up into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

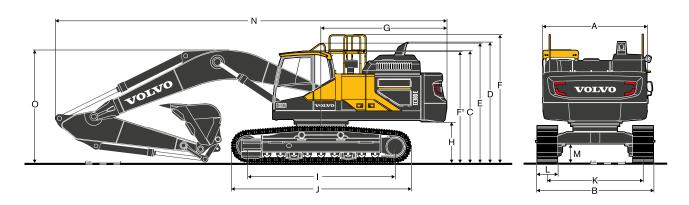
Specifications





DIMENSIONS									
	Во	om		Arm					
	Unit	mono	mono Description Unit		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	1 800	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	

 $[\]ensuremath{^{\star}}$ Includes arm cylinder, piping and pin

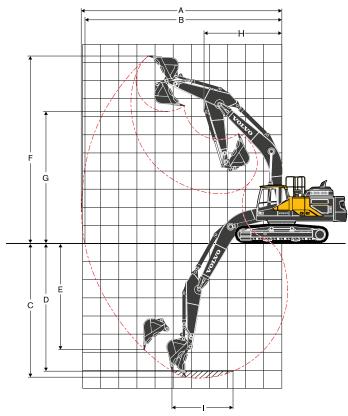


DIMENSIONS									
Description	Unit		EC380EL			EC380ENL			
Boom	m	6.2		6.45		6.2		6.45	
Arm	m	2.6	2.6	3.2	3.9	2.6	2.6	3.2	3.9
A. Overall width of upper structure	mm	2 990	2 990	2 990	2 990	2 990	2 990	2 990	2 990
B. Overall width	mm	3 340	3 340	3 340	3 340	2 990	2 990	2 990	2 990
C. Overall height of 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	1 150	1 150
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

 $[\]ensuremath{^{\star}}$ Includes bucket cylinder, linkage and pin

Specifications



Description		Unit		EC3	80E			
Boom		m	6.2	6.2 6.45				
Arm		m	2.6	2.6	3.2	3.9		
A. Max. digging reach		mm	10 450	10 695	11 220	11 855		
B. Max. digging reach	on ground	mm	10 225	10 480	11 010	11 665		
C. Max. digging depth		mm	6 755	6 990	7 590	8 290		
D. Max. digging depth (2.44 m level)		mm	6 575	6 805	7 425	8 145		
E. Max. vertical wall digging depth		E. Max. vertical wall digging depth		mm	4 860	5 000	5 510	6 1 1 0
- Max. cutting height		mm	10 055	10 195	10 370	10 640		
G. Max. dumping heigh	nt	mm	6 800	6 950	7 140	7 415		
H. Min. front slew radio	IS	mm	4 090	4 290	4 280	4 305		
Digging forces with o	lirect fit bucket							
	SAE J1179	kN	214.5	198.0	198.0	198.0		
Breakout force - bucket	SAE J1179	kN	234.5	215.0	215.0	215.0		
(Normal/Power boost)	ISO 6015	kN	243.4	221.7	221.7	221.7		
	ISO 6015	kN	265.4	242.7	242.7	242.7		
	SAE J1179	kN	187.7	195.9	161.9	141.3		
Tearout force - dipper	SAE J1179	kN	205.7	212.9	176.9	154.3		
arm (Normal/Power boost)	ISO 6015	kN	193.9	201.1	166.0	144.4		
,	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, 1 574 kg bucket, 6 700 kg counterweight

							EC38	BOENL			EC3	80EL		
Bucket type		Capacity	Cutting	Weight	Teeth	600 mm	shoe, 6 70	00 kg coun	terweight	600 mm shoe, 6 700 kg counterweigh				
		Capacity	width	Weight	leetn	6.2 m Boom	6	.45 m Boo	m	6.2 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	1 420	1 200	1 514	5	С	С	С	С	С	С	С	С	
	purpose	1 670	1 350	1 629	5	С	С	С	С	С	С	С	С	
Direct fit		1 920	1 500	1 769	5	С	С	С	С	С	С	С	С	
Buckets		2 330	1 750	1 986	5	С	С	С	В	С	С	С	В	
	Heavy	1 000	900	1 425	4	D	D	D	D	D	D	D	D	
		1 420	1 200	1 699	5	D	D	D	D	D	D	D	D	
	duty	1 920	1 500	1 970	5	D	D	D	С	D	D	D	С	
		2 330	1 750	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	1 420	1 200	1 514	5	С	С	С	С	С	С	С	С	
Direct fit	purpose	1 670	1 350	1 629	5	С	С	С	С	С	С	С	С	
Buckets		1 920	1 500	1 769	5	С	С	С	В	С	С	С	С	
(UQC		2 330	1 750	1 967	5	С	С	В	A	С	С	В	Α	
interface)	Heavy duty	1 000	900	1 425	4	D	D	D	D	D	D	D	D	
		1 420	1 200	1 699	5	D	D	D	D	D	D	D	D	
		1 920	1 500	1 970	5	D	D	D	В	D	D	D	В	
		2 330	1 750	2 175	5	В	Α	Χ	Χ	В	В	Α	Χ	
		1 000	900	1 239	4	С	С	С	С	С	С	С	С	
		1 420	1 200	1 482	5	С	С	С	С	С	С	С	С	
	General purpose	1 670	1 350	1 597	5	С	С	С	С	С	С	С	С	
Quick	puiposo	1 920	1 500	1 720	5	С	С	С	В	С	С	С	С	
coupler Buckets		2 330	1 750	1 911	5	С	С	С	Α	С	С	С	В	
Suckets (S3 Quick		1 000	900	1 393	4	D	D	D	D	D	D	D	D	
coupler)		1 420	1 200	1 648	5	D	D	D	D	D	D	D	D	
	Heavy duty	1 670	1 350	1 791	5	D	D	D	С	D	D	D	D	
	""	1 920	1 500	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	Α	

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 1 200 1 300 kg/m3 Coal, Caliche, Shale
- B 1 400 1 600 kg/m3 Wet earth and clay, Limestone, Sandstone
 C 1 700 1 800 kg/m3 Granite, Wet sand, Well blasted rock
 D > 1 900 kg/m3 Wet mud, Iron ore

Specifications

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.

For illuring capacity inc	dualing bucker	i, simply :	Subtract	actual we	igni oi ii	ie direct	iii bucke	t or the b	ucket wi	in quick c	coupler i	rom the i	ollowing	values.		
	Lifting hook	1.5	5 m	3.0) m	4.5	5 m	6.0) m	7.5	m .	9.0) m	Ma	ax. reach	
	related to															Г
	ground	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	m
	level	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	'''
								*10 700	*10 700					*10 870	10 200	6.7
										*10 740	0.400			*10 760		
	6 m kg					+4 = 0=0	*45.050									7.7
Boom : 6.2m	4.5 m kg									*11 200				10 840		8.3
Arm : 2.6m	3 m kg									*12 030				10 120		8.6
Shoe : 600mm	1.5 m kg									12 180				9 950		8.6
CWT : 6 700kg	0 m kg									12 010				10 300		8.3
	-1.5 m kg									11 990	7 590			11 370	7 230	7.8
	-3 m kg			*26 490	*26 490	*19 850	15 980	*15 050	10 430					*12 530	8 690	6.9
	-4.5 m kg					*15 320	*15 320							*12 280	*12 280	5.4
	7.5 m kg													*10 420	9 500	7.0
	6 m kg							*11 020	*11 020	*10 360	8 460			*10 360	7 660	8.0
	4.5 m kg					*16 080	*16 080	*12 580	11 570	*10 970	8 250			10 340	6 730	8.5
Boom : 6.45m	3 m kg									*11 870				9 680	6 270	8.8
Arm: 2.6m	1.5 m kg									12 140				9 520	6 130	8.8
Shoe: 600mm	0 m kg					*91.850	15 620			11 960				9 830	6 300	8.6
CWT: 6 700kg				*1 / 000	*1 / 000					11 930				10 770		8.1
						*19 940					1 000			*12 160		7.2
	-3 m kg								10 300							
	-4.5 m kg			20 930	20 930	*16 070	10 0/0			*0.070	0.670			*12 110		
	7.5 m kg									*9 370				*8 200	*8 200	7.7
	6 m kg									*9 500		+0 =0	0.000		6 920	8.5
Boom : 6.45m	4.5 m kg									*10 260				*8 060	6 150	9.1
Arm: 3.2m	3 m kg									*11 290		9 4 1 0	6 100	*8 390	5 760	9.3
Shoe : 600mm	1.5 m kg									12 190				8 740	5 630	9.4
CWT : 6 700kg	0 m kg					*22 610	15 610	*16 410	10 280	11 950	7 550	9 150	5 870	8 970	5 750	9.1
	-1.5 m kg			*15 110	*15 110	*22 370	15 530	*16 640	10 150	11 850	7 460			9 690	6 190	8.6
	-3 m kg	*17 590	17 590	*23 840	*23 840	*20 970	15 680	*15 880	10 200	11 930	7 520			11 240	7 130	7.8
	-4.5 m kg			*24 300	*24 300	*17 980	16 050	*13 490	10 470					*11 830	9 2 7 0	6.6
	9 m kg													*6 920	*6 920	7.2
	7.5 m kg									*8 160	*8 160				*6 470	8.4
	6 m kg											*7 680	6 430	*6 310	6 140	9.2
	4.5 m kg							*10 380	*10 380	*9 380			6 320	*6 370	5 530	9.7
Boom : 6.45m	3 m kg					*16.410	*16.410			*10 510		*9 430	6 140	*6 600	5 200	10.0
Arm: 3.9m										*11 650				*7 040	5 080	10.0
Shoe: 600mm				*0.200	*0.200					11 940		9 100	5 810			
CWT: 6 700kg	0 m kg		*0 E10											*7 760	5 160	9.8
										11 770		9 030	5 740	8 590	5 480	9.3
										11 750	7 360			9 710	6 160	8.6
			121 190	*27 500					10 190					*11 110		7.5
	-6 m kg			*20 790	*20 790	*15 130	<u>*15 130</u>							*11 300		
	7.5 m kg							*10 700						*10 870		
	6 m kg									*10 740				*10 760		7.7
D	4.5 m kg					*15 850	*15 850	*12 670	11 970	*11 200	8 520			*10 870	7 280	8.3
Boom : 6.2m Arm : 2.6m	3 m kg					*19 770	17 340	*14 470	11 420	*12 030	8 260			10 400	6 770	8.6
	1.5 m kg					*22 280	16 520	*15 980	10 950	12 520	8 020			10 230	6 620	8.6
Shoe: 600mm	0 m kg					*22 820	16 250	*16 750	10 690	12 350	7 870			10 600	6 830	8.3
CWT: 7 250kg	-1.5 m kg			*17 770	*17 770	*22 010	16 270	*16 560	10 630	12 340	7 850			11 700	7 480	7.8
	-3 m kg					*19 850								*12 530	8 990	6.9
	-4.5 m kg					*15 320								*12 280		
	7.5 m kg													*10 420		7.0
	6 m kg							*11.020	*11.020	*10 360	8 720				7 900	
						*16.080	*16 020			*10 970				*10 480		8.5
Boom: 6.45m						10 000	10 000									
Arm : 2.6m	3 m kg									*11 870				9 950		8.8
Shoe: 600mm	1.5 m kg					*01.050				12 490				9 800	6 350	8.8
CWT: 7 250kg	0 m kg									12 310				10 120		8.6
0	-1.5 m kg									12 280	7 800			11 090		8.1
	-3 m kg					*19 940			10 700						8 410	
	-4.5 m kg			*20 930	*20 930	*16 070	*16 070							*12 110		
	7.5 m kg									*9 370	8 930			*8 200	*8 200	7.7
	6 m kg									*9 500	8 860			*7 980	7 140	8.5
5 0:-	4.5 m kg					*14 350	*14 350	*11 610	*11 610	*10 260		*8 790	6 450		6 360	9.1
Boom : 6.45m	3 m kg									*11 290		9 680	6 320	*8 390	5 960	9.3
Arm: 3.2m Shoe: 600mm	1.5 m kg									*12 280						9.4
										12 300		9 420	6 080	9 240	5 960	9.1
																U. I
Shoe : 600mm CWT : 7 250kg	0 m kg			*15 110	*15.110							0 120				86
	0 m kg -1.5 m kg)*17 E00			*22 370	16 060	*16 640	10 500	12 200	7 720	0 120		9 980	6 410	8.6
	0 m kg -1.5 m kg	*17 590)*17 590	*23 840	*23 840	*22 370	16 060 16 200	*16 640 *15 880	10 500 10 550	12 200 *12 270	7 720	0 120			6 410 7 380	8.6 7.8 6.6

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		related to ground				5 m 3.0		4.5	4.5 m		6.0 m		7.5 m) m	Max. reach		
					Along UC	Across UC	m												
	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	6 640	*6 310	*6 310	9.2		
D C 4F	4.5 m	kg							*10 380	*10 380	*9 380	8 740	*8 850	6 530	*6 370	5 720	9.7		
Boom : 6.45m Arm : 3.9m	3 m	kg					*16 410	*16 410	*12 460	11 710	*10 510	8 400	*9 430	6 360	*6 600	5 380	10.0		
Shoe: 600mm	1.5 m	kg					*20 040	16 850	*14 440	11 090	*11 650	8 060	9 540	6 170	*7 040	5 260	10.0		
CWT : 7 250kg	0 m	kg			*9 320	*9 320	*22 030	16 170	*15 870	10 650	12 290	7 790	9 3 7 0	6 020	*7 760	5 350	9.8		
OW1 . 7 200kg	-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	5 960	8 850	5 680	9.3		
	-3 m	kg	*14 830	*14 830	*20 550	*20 550	*21 740	15 960	*16 250	10 390	12 100	7 620			9 990	6 390	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							*11 300	*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 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		Max. reach		
			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							*10 730	*10 730					*10 900	9 180	6.7
	6 m	kg							*11 250	10 850	*10 770	7 580			*10 800	7 280	7.7
	4.5 m	kg					*15 890	*15 890	*12 700	10 400	*11 230	7 430			*10 900	6 350	8.3
Boom: 6.2m	3 m	kg					*19 810	14 740	*14 500	9 870	*12 070	7 180			10 320	5 880	8.6
Arm : 2.6m	1.5 m	kg					*22 330	13 960	*16 020	9 430	12 420	6 950			10 150	5 750	8.6
Shoe: 600mm	0 m	kg									12 250				10 520		8.4
CWT: 7 250kg	-1.5 m	kg			*17 780	*17 780					12 240				11 600		7.8
	-3 m	kg							*15 090						*12 560		6.9
	-4.5 m	kg					*15 360								*12 310		
	7.5 m	kg													*10 420		7.0
	6 m	kg							*11 020	10.810	*10 360	7 600			*10 360		8.0
	4.5 m	kg					*16 080				*10 970				*10 480		8.5
Boom : 6.45m	3 m	kg									*11 870				9 850		8.8
Arm: 2.6m Shoe: 600mm CWT: 7 250kg	1.5 m	kg									12 360				9 690	5 480	8.8
	0 m	kg					*21.850				12 180				10 010		8.6
	-1.5 m	kg			*14 880	*14 880					12 140				10 970		8.1
	-3 m	kg							*15 270		12 1 10	0.00			*12 160		7.2
	-4.5 m	kg					*16 070		.0 2.0	00					*12 110		5.8
	7.5 m	kg			20 000	20 000	10010	11210			*9 370	7 800			*8 200		7.7
	6 m	kg									*9 500				*7 980		8.5
	4.5 m	kg					*14.350	*14 350	*11 610	10.510	*10 260		*8 790	5 590	*8 060		9.1
Boom: 6.45m	3 m	kg									*11 290		9 580			5 150	9.3
Arm: 3.2m	1.5 m	kg									*12 280				8 890	5 030	9.4
Shoe: 600mm	0 m	kg									12 170			5 230	9 130	5 130	9.1
CWT: 7 250kg	-1.5 m	kg			*15 110	*15 110					12 070		0 020	0 200	9 870	5 5 1 0	8.6
	-3 m		*17 590	*17 590	*23 840										11 440		7.8
	-4.5 m	kg		17 000					*13 490		12 140	0 000			*11 830		6.6
	9 m	kg			24 000	24 000	17 300	10 310	10 400	3 200					*6 920	*6 920	7.2
	7.5 m	kg									*8 160	8.010			*6 470		8.4
	6 m	kg											*7 680	5 780	*6 310	5 520	9.2
	4.5 m	kg							*10 380	*10 380	*9 380				*6 370		9.7
Boom: 6.45m	3 m	kg					*16.410				*10 510		*9 430		*6 600	4 640	10.0
Arm: 3.9m	1.5 m										*11 650					4 530	10.0
Shoe: 600mm	0 m	kg kg			*0 300						12 160			5 180	*7 760	4 600	9.8
CWT: 7 250kg	-1.5 m		*0.510	*0 510	*14 220									5 110	8 750	4 880	9.3
	-1.5 m				14 220								9 200	3110	9 880	5 480	9.3 8.6
	-3 m				[*] 27 500						11910	0 020			*11 110		7.5
	-4.5 m	- 0	21 190	21 190			*15 130		14 //0	8 990					*11 300		5.8
Notice 4 Monthly 12	-0 m	kg			20 790												0.0

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.

Equipment

STANDARD EQUIPMENT

Engine

Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets Tier 4f EU (Stage IV) 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

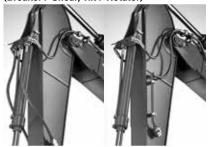
Tool kit, full scale

Automatic lubrication system

Air compressor

SELECTION OF VOLVO OPTIONAL EQUIPMENT

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







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.

