



Volvo Construction Equipment

EC380E

VOLVO EXCAVATORS 37.8-43.0t 307hp



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.

Helping you to do more

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

Mack Trucks



UD Trucks



Volvo Buses



Volvo Construction Equipment



Volvo Penta



Volvo Financial Services

ELITE EFFICIENCY.

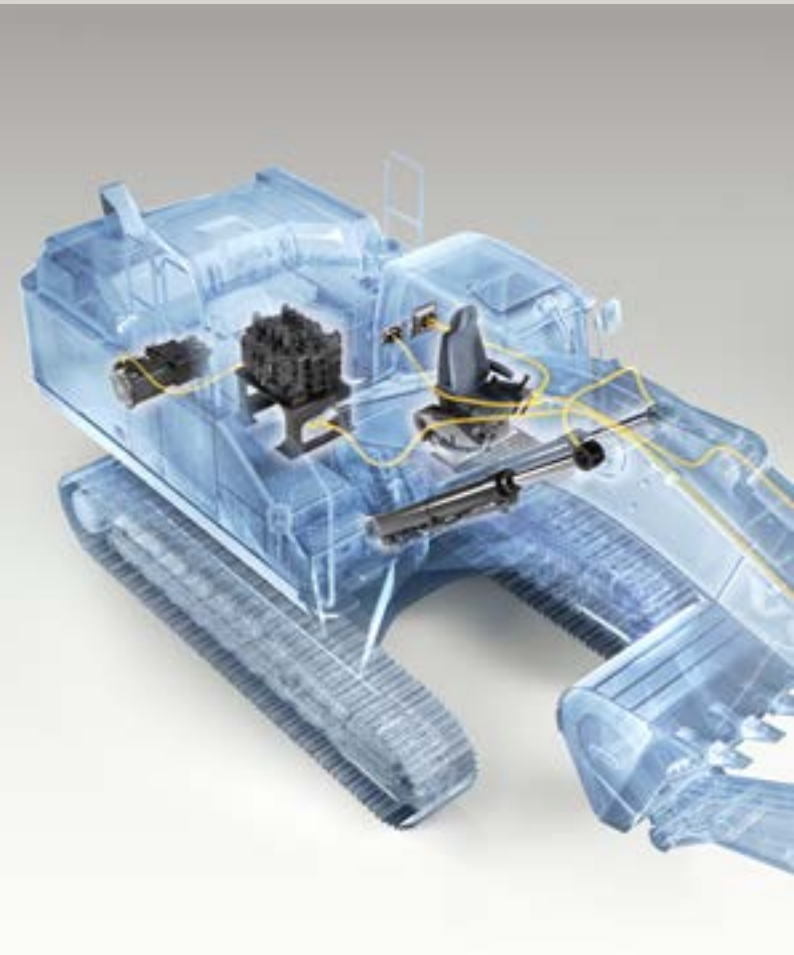
Fuel efficiency is at the center of the EC380E crawler excavator. With advanced technology including Volvo's unique ECO mode and a new electro-hydraulic control system, this production machine delivers a 9% improvement in fuel efficiency. Experience efficient production at its best with Volvo.

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.

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).



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).

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.

BOOST YOUR PRODUCTIVITY.



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.

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.

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.



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.

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®

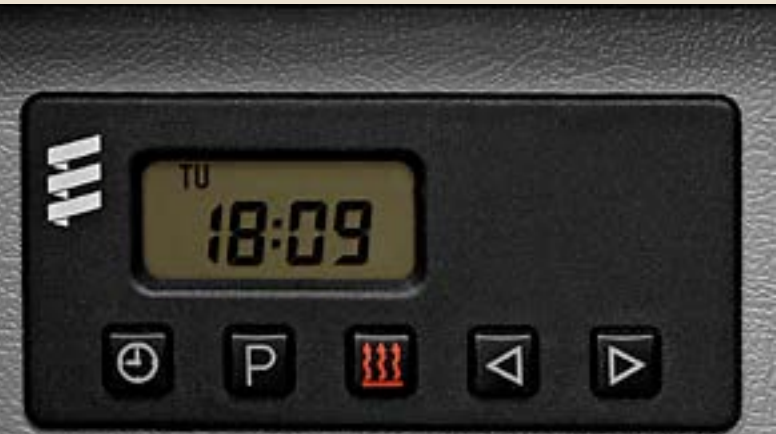
For added convenience, operators can now connect a Bluetooth device to the machine.

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.

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.



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)

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.

BUILT TO LAST.



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.

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

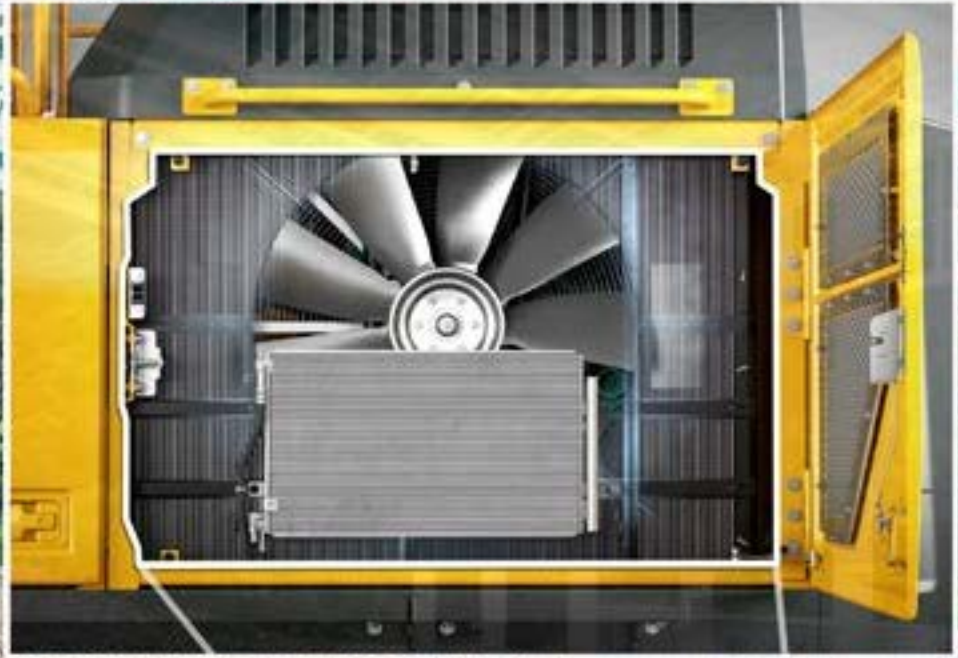
Volvo's durable design features a rigid side door with a robust handle and hinges for superior durability.



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.



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.

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 provide safe and easy access to the cab and superstructure.

QUALITY COUNTS.

Safe access

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



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.

Quick coupler

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.



AdBlue®

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

LCD monitor

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



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.



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.

Volvo After Treatment System

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

THE PERFECT MATCH.

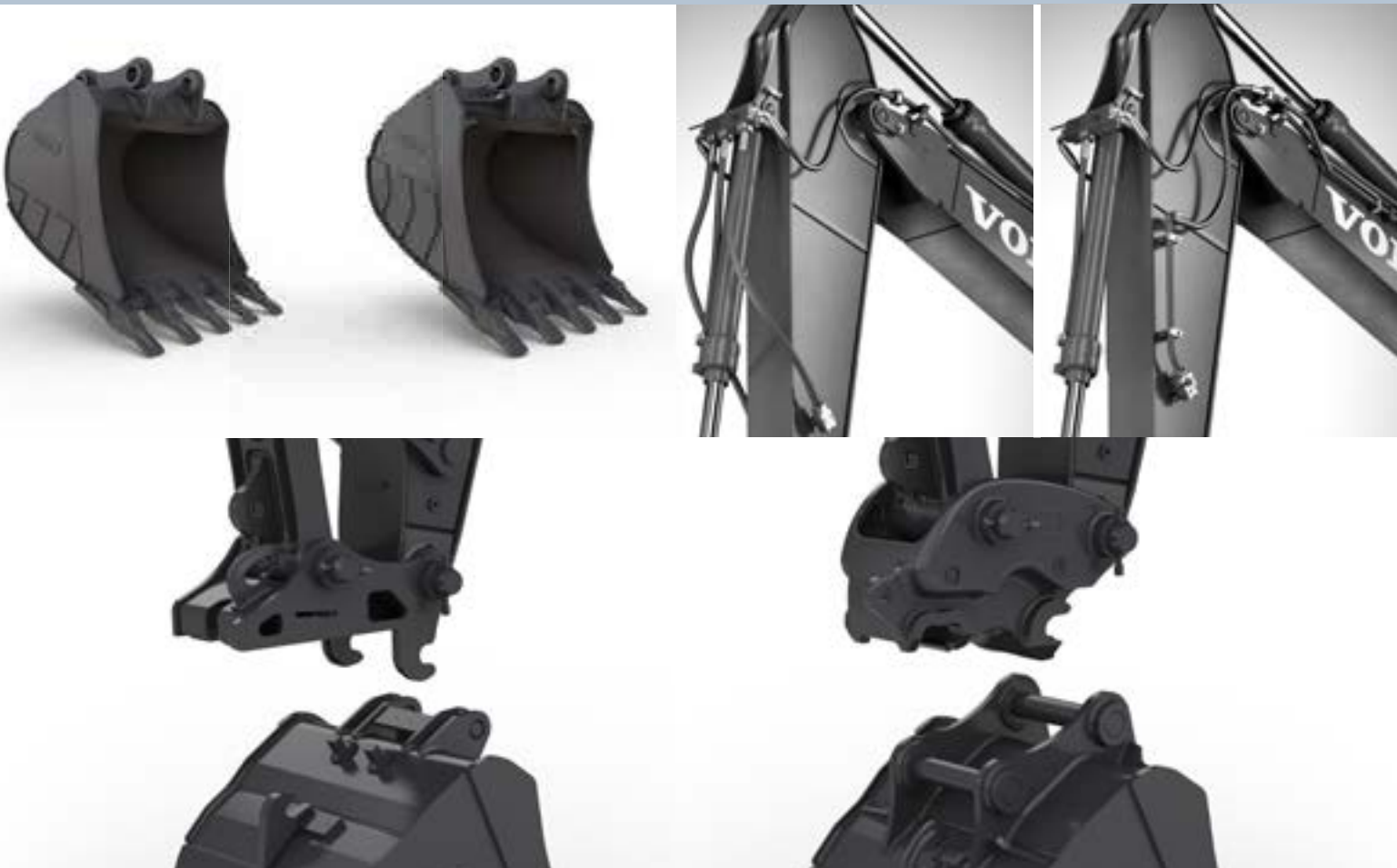
Maximize your productivity and profitability with the EC380E and Volvo's durable range of attachments. Increase your versatility, access more applications and effectively perform a variety of tasks – all while experiencing faster cycle times and excellent control. Get the most out of your excavator with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



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.



SERVICE PLAN

	DAY01	DAY02	DAY03	DAY04	DAY05	DAY06	DAY07
Task 1							✓
Task 2		✓		✓	✓		
Task 3			✓			✓	✓
Task 4	✓						
Task 5			✓				✓
Task 6				✓			
Task 7							✓



 **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 compliant 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, high-pressure 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 Tier 4f (Stage IV)	Volvo	D13J
Max power at	r/s / r/min	28 / 1700
Net, ISO 9249/SAE J1349	kW / hp	225 / 306
Gross, ISO 14396/SAE J1995	kW / hp	226 / 307
Max torque at	Nm / r/min	1 692 / 1 275
No. of cylinders		6
Displacement	l	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 / Ah	28 / 80

Swing system

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

Max. slew speed	r/min	10.2
Max. slew torque	kNm	130.5

Drive

Each track is powered by an automatic two-speed shift travel motor. The track brakes are multi-disc, spring-applied and hydraulic released. The travel motor, brake and planetary gears are well protected within the track frame.

Max. drawbar pull	kN	276.5
Max. travel speed	km/h	3.4/5.3
Gradeability	°	35

Undercarriage

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

Track pads		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 6396		
LpA	dB(A)	71
External sound level according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 +A1:2009		
LwA	dB(A)	105

Hydraulic system

The new electro-hydraulic system and new MCV (main control valve) use intelligent technology to control on-demand flow for high-productivity, 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 operations.

Regeneration system: Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.

Power boost: All digging and lifting forces are increased.

Holding valves: Boom and arm holding valves prevent the digging equipment from creeping.

Main pump, Type 2 x variable displacement axial piston pumps		
Maximum flow	l/min	2 x 300
Pilot pump, Type Gear pump		
Maximum flow	l/min	32.6

Hydraulic motors

Travel: Variable displacement axial piston motor with mechanical brake

Slew: Fixed displacement axial piston motor with mechanical brake

Relief valve setting		
Implement	MPa	32.4/35.3
Travel circuit	MPa	35.3
Slew circuit	MPa	27.9
Pilot circuit	MPa	3.9

Hydraulic cylinders

Mono boom		2
Bore x Stroke	ø x mm	160 x 1 530
Arm	1	1
Bore x Stroke	ø x mm	175 x 1 700
Bucket	1	1
Bore x Stroke	ø x mm	145 x 1 285
ME Bucket	1	1
Bore x Stroke	ø x mm	160 x 1 250
LR Bucket	1	1
Bore x Stroke	ø x mm	140 x 1 140

Service refill capacities

Fuel tank	l	620
AdBlue®	l	62.5
Hydraulic system, total	l	500
Hydraulic tank	l	225
Engine oil	l	42
Engine coolant	l	60
Slew reduction unit	l	6.5
Travel reduction unit	l	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.

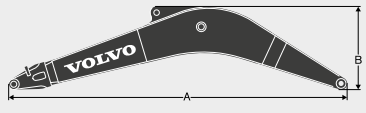
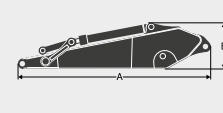
Integrated air-conditioning and heating system:

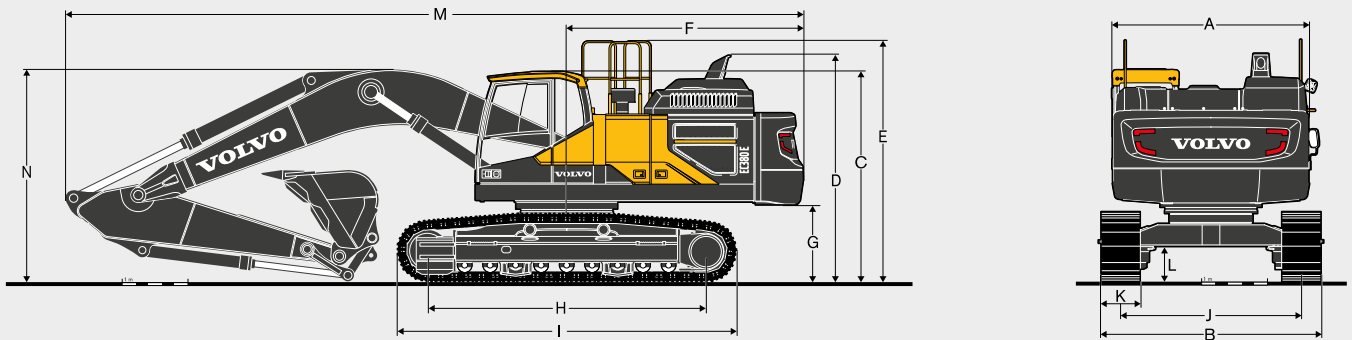
The pressurized and filtered cab air is supplied by an automatically-controlled fan. The air is distributed throughout the cab from 14 vents.

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

The seat has 12 different adjustments plus a seat belt for the operator's comfort and safety.

DIMENSIONS.

Boom				Arm				
								
	Unit	mono	mono	Description	Unit			
Boom	m	6.2 ME	6.45 HD	Arm	m	2.6	3.2 HD	3.9
A	mm	6 460	6 700	A	mm	3 780	4 360	5 080
B	mm	1 740	1 800	B	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				* Includes bucket cylinder, linkage and pin				

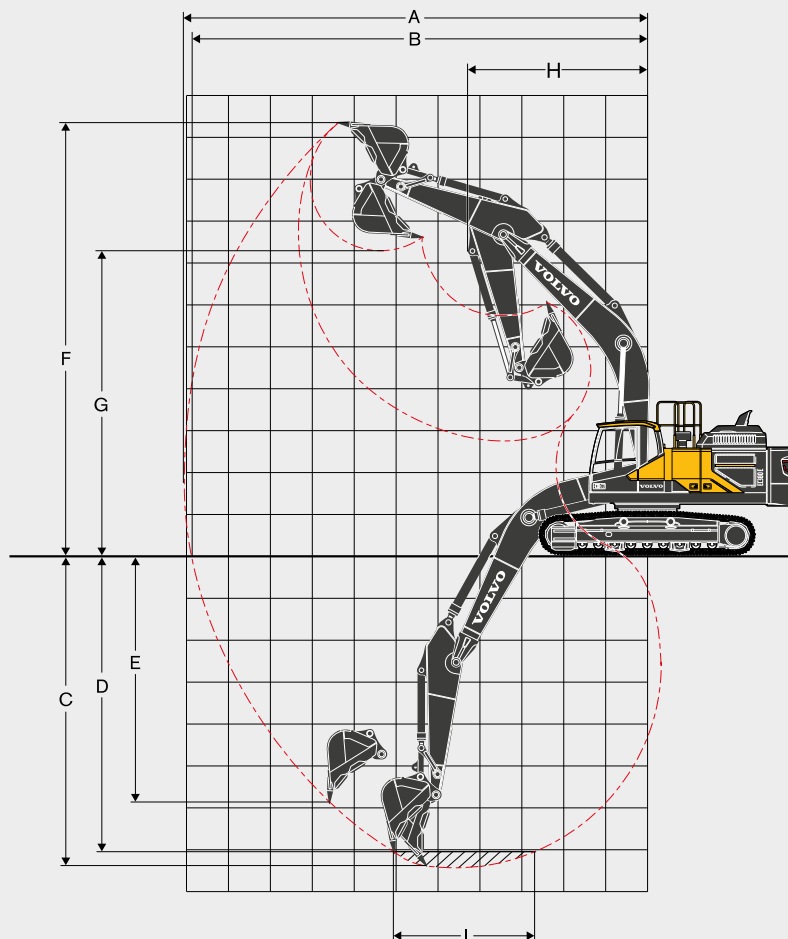


Description	Unit	EC380EL				EC380ENL			
		6.2	2.6	3.2	3.9	6.2	2.6	3.2	3.9
Boom	m	6.2	2.6	3.2	3.9	6.2	2.6	3.2	3.9
Arm	m	2.6	2.6	3.2	3.9	2.6	2.6	3.2	3.9
A. Overall width of upper structure	mm	2 990	2 990	2 990	2 990	2 990	2 990	2 990	2 990
B. Overall width	mm	3 340	3 340	3 340	3 340	2 990	2 990	2 990	2 990
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 guard rail	mm	3 685	3 685	3 685	3 685	3 685	3 685	3 685	3 685
F. Tail swing radius	mm	3 600	3 600	3 600	3 600	3 600	3 600	3 600	3 600
G. Counterweight clearance *	mm	1 150	1 150	1 150	1 150	1 150	1 150	1 150	1 150
H. Tumbler length	mm	4 240	4 240	4 240	4 240	4 240	4 240	4 240	4 240
I. Track length	mm	5 180	5 180	5 180	5 180	5 180	5 180	5 180	5 180
J. Track gauge	mm	2 740	2 740	2 740	2 740	2 390	2 390	2 390	2 390
K. Shoe width	mm	600	600	600	600	600	600	600	600
L. Min. ground clearance *	mm	500	500	500	500	500	500	500	500
M. Overall length	mm	11 060	11 310	11 220	11 270	11 060	11 310	11 220	11 270
N. Overall height of boom	mm	3 610	3 580	3 360	3 605	3 610	3 580	3 360	3 605

* Without shoe grouser

SPECIFICATIONS.

WORKING RANGE



Description		Unit	EC380E			
Boom		m	6.2		6.45	
Arm		m	2.6		3.2	
A. Max. digging reach		mm	10 300	10 545	11 070	11 700
B. Max. digging reach on ground		mm	10 075	10 325	10 860	11 500
C. Max. digging depth		mm	6 540	6 785	7 390	8 085
D. Max. digging depth (2.44 m level)		mm	6 180	6 430	7 060	7 735
E. Max. vertical wall digging depth		mm	5 275	5 430	5 875	6 675
F. Max. cutting height		mm	10 035	10 170	10 340	10 635
G. Max. dumping height		mm	6 945	7 095	7 285	7 560
H. Min. front slew radius		mm	4 115	4 315	4 275	4 240
Digging forces with direct fit bucket						
Bucket radius		mm	1 810	1 623	1 623	1 623
		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 arm		SAE J1179 kN	205.7	212.9	176.9	154.3
(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
Rotation angle, bucket		°	164	177	177	177

MACHINE WEIGHTS AND GROUND PRESSURE

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

BUCKET SELECTION GUIDE

Bucket type	Capacity	Cutting width	Weight	Teeth	EC380ENL				EC380EL						
					6.2m Boom		6.45m Boom		6.2m Boom		6.45m Boom				
					600mm shoe, 6 700kg counterweight				600mm shoe, 6 700kg counterweight						
					L	mm	kg	EA	2.6m	2.6m	3.2m	3.9m	2.6m	2.6m	3.2m
Direct fit Buckets	General purpose	870	750	1 176	3	C	C	C	C	C	C	C	C		
		1 000	900	1 271	4	C	C	C	C	C	C	C	C		
		1 180	1 050	1 460	4	C	C	C	C	C	C	C	C		
		1 420	1 200	1 612	5	C	C	C	C	C	C	C	C		
		1 670	1 350	1 726	5	C	C	C	C	C	C	C	C		
		1 920	1 500	1 866	5	C	C	C	C	C	C	C	C		
	2 330	1 750	1 967	5	C	C	B	B	C	C	C	B			
	Heavy duty	870	750	1 344	3	D	D	D	D	D	D	D	D		
		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		
		1 670	1 350	1 852	5	D	D	D	D	D	D	D	D		
		1 920	1 500	1 970	5	D	D	D	C	D	D	D	C		
		2 330	1 750	2 175	5	C	C	B	A	D	C	B	B		
		Direct fit Buckets (UQC interface)	General purpose	870	750	1 176	3	C	C	C	C	C	C	C	C
1 000				900	1 271	4	C	C	C	C	C	C	C	C	
1 420	1 200			1 514	5	C	C	C	C	C	C	C	C		
1 670	1 350			1 629	5	C	C	C	B	C	C	C	C		
1 920	1 500			1 866	5	C	C	B	A	C	C	C	B		
2 330	1 750			1 967	5	B	B	A	X	C	B	A	X		
Heavy duty	870		750	1 352	3	D	D	D	D	D	D	D	D		
	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		
	1 670		1 350	1 852	5	D	D	C	B	D	D	D	B		
	1 920		1 500	1 970	5	D	C	B	A	D	D	B	A		
	2 330		1 750	2 175	5	B	A	X	X	B	B	A	X		
	Quick coupler Buckets (S3 Quick coupler)		General purpose	1 000	900	1 239	4	C	C	C	C	C	C	C	C
				1 180	1 050	1 412	4	C	C	C	C	C	C	C	C
1 420		1 200		1 482	5	C	C	C	C	C	C	C	C		
1 670		1 350		1 597	5	C	C	C	C	C	C	C	C		
1 920		1 500		1 720	5	C	C	C	B	C	C	C	C		
2 330		1 750		1 911	5	C	B	B	A	C	C	B	A		
Heavy duty		1 000	900	1 393	4	D	D	D	D	D	D	D	D		
		1 420	1 200	1 648	5	D	D	D	D	D	D	D	D		
		1 670	1 350	1 791	5	D	D	D	C	D	D	D	D		
		1 920	1 500	1 921	5	D	D	C	B	D	D	D	B		
		2 330	1 750	2 119	5	C	B	A	X	C	B	B	A		
		Quick coupler Buckets (UQC38 Quick coupler)	Heavy duty	830	750	1 104	3	D	D	D	D	D	D	D	D
				1 000	900	1 202	3	D	D	D	D	D	D	D	D
				1 240	1 100	1 370	4	D	D	D	D	D	D	D	D
1 450	1 200			1 435	4	D	D	D	D	D	D	D	D		
1 670	1 350			1 570	5	D	D	D	C	D	D	D	C		
1 910	1 500			1 667	5	D	D	C	B	D	D	C	B		
2 290	1 750			1 830	5	C	B	A	X	C	B	B	A		
2 530	1 900			1 958	5	B	A	X	X	B	B	A	X		

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 material density

A	1 200 - 1 300 kg/m ³	Coal, Caliche, Shale
B	1 400 - 1 600 kg/m ³	Wet earth and clay, Limestone, Sandstone
C	1 700 - 1 800 kg/m ³	Granite, Wet sand, Well blasted rock
D	> 1 900 kg/m ³	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.

		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		
Boom : 6.2m	7.5 m	kg							*10 700	*10 700					*10 870	10 200	6.7		
Arm : 2.6m	6 m	kg							*11 220	*11 220	*10 740	8 420			*10 760	8 080	7.7		
Shoe : 600mm	4.5 m	kg					*15 850	*15 850	*12 670	11 620	*11 200	8 250			10 840	7 050	8.3		
CWT : 6 700kg	3 m	kg					*19 770	16 820	*14 470	11 060	*12 030	8 000			10 120	6 540	8.6		
	1.5 m	kg					*22 280	15 990	*15 980	10 600	12 180	7 760			9 950	6 400	8.6		
	0 m	kg					*22 820	15 720	*16 750	10 340	12 010	7 600			10 300	6 600	8.3		
	-1.5 m	kg			*17 770	*17 770	*22 010	15 740	*16 560	10 280	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		
Boom : 6.45m	7.5 m	kg							*11 020	*11 020	*10 360	8 460			*10 420	9 500	7.0		
Arm : 2.6m	6 m	kg							*12 580	11 570	*10 970	8 250			*10 360	7 660	8.0		
Shoe : 600mm	4.5 m	kg					*16 080	*16 080	*14 430	10 990	*11 870	7 970			10 340	6 730	8.5		
CWT : 6 700kg	3 m	kg							*15 940	10 530	12 140	7 720			9 680	6 270	8.8		
	1.5 m	kg							*21 850	15 620	*16 690	10 280	11 960	7 560	9 520	6 130	8.8		
	0 m	kg							*14 880	*14 880	*21 890	15 660	*16 550	10 220	11 930	7 530	8.6		
	-1.5 m	kg			*14 880	*14 880	*21 890	15 660	*16 550	10 220	11 930	7 530			10 770	6 870	8.1		
	-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		
Boom : 6.45m	7.5 m	kg									*9 370	8 670			*8 200	*8 200	7.7		
Arm : 3.2m	6 m	kg									*9 500	8 600			*7 980	6 920	8.5		
Shoe : 600mm	4.5 m	kg							*14 350	*14 350	*11 610	*11 610	*10 260	8 360	*8 790	6 230	*8 060	6 150	9.1
CWT : 6 700kg	3 m	kg							*18 440	17 030	*13 580	11 160	*11 290	8 050	9 410	6 100	*8 390	5 760	9.3
	1.5 m	kg							*21 460	16 030	*15 330	10 620	12 190	7 760	9 260	5 960	8 740	5 630	9.4
	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	9 270	6.6		
Boom : 6.45m	9 m	kg													*6 920	*6 920	7.2		
Arm : 3.9m	7.5 m	kg									*8 160	*8 160			*6 470	*6 470	8.4		
Shoe : 600mm	6 m	kg									*8 510	*8 510	*7 680	6 430	*6 310	6 140	9.2		
CWT : 6 700kg	4.5 m	kg							*10 380	*10 380	*9 380	8 480	*8 850	6 320	*6 370	5 530	9.7		
	3 m	kg							*16 410	*16 410	*12 460	11 350	*10 510	8 130	*9 430	6 140	*6 600	5 200	10.0
	1.5 m	kg							*20 040	16 320	*14 440	10 740	*11 650	7 790	9 270	5 960	*7 040	5 080	10.0
	0 m	kg			*9 320	*9 320	*22 030	15 650	*15 870	10 300	11 940	7 530	9 100	5 810	*7 760	5 160	9.8		
	-1.5 m	kg	*9 510	*9 510	*14 220	*14 220	*22 500	15 400	*16 510	10 070	11 770	7 370	9 030	5 740	8 590	5 480	9.3		
	-3 m	kg	*14 830	*14 830	*20 550	*20 550	*21 740	15 430	*16 250	10 040	11 750	7 360			9 710	6 160	8.6		
	-4.5 m	kg	*21 190	*21 190	*27 500	*27 500	*19 600	15 700	*14 770	10 190					*11 110	7 590	7.5		
	-6 m	kg			*20 790	*20 790	*15 130	*15 130							*11 300	11 300	5.8		
Boom : 6.2m	7.5 m	kg							*10 700	*10 700					*10 870	10 500	6.7		
Arm : 2.6m	6 m	kg							*11 220	*11 220	*10 740	8 680			*10 760	8 340	7.7		
Shoe : 600mm	4.5 m	kg							*15 850	*15 850	*12 670	11 970	*11 200	8 520	*10 870	7 280	8.3		
CWT : 7 250kg	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		
	0 m	kg							*22 820	16 250	*16 750	10 690	12 350	7 870	10 600	6 830	8.3		
	-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			*26 490	*26 490	*19 850	16 500	*15 050	10 780					*12 530	8 990	6.9		
	-4.5 m	kg					*15 320	*15 320							*12 280	*12 280	5.4		
Boom : 6.45m	7.5 m	kg							*11 020	*11 020	*10 360	8 720			*10 420	9 790	7.0		
Arm : 2.6m	6 m	kg							*12 580	11 920	*10 970	8 510			*10 480	6 950	8.5		
Shoe : 600mm	4.5 m	kg					*16 080	*16 080	*14 430	11 340	*11 870	8 240			9 950	6 480	8.8		
CWT : 7 250kg	3 m	kg							*15 940	10 880	12 490	7 990			9 800	6 350	8.8		
	1.5 m	kg							*21 850	16 140	*16 690	10 630	12 310	7 830	10 120	6 530	8.6		
	0 m	kg							*14 880	*14 880	*21 890	16 190	*16 550	10 570	12 280	7 800	8.1		
	-1.5 m	kg			*14 880	*14 880	*21 890	16 190	*16 550	10 570	12 280	7 800			11 090	7 110	8.1		
	-3 m	kg			*26 310	*26 310	*19 940	16 410	*15 270	10 700					*12 160	8 410	7.2		
	-4.5 m	kg			*20 930	*20 930	*16 070	*16 070							*12 110	11 650	5.8		
Boom : 6.45m	7.5 m	kg									*9 370	8 930			*8 200	*8 200	7.7		
Arm : 3.2m	6 m	kg									*9 500	8 860			*7 980	7 140	8.5		
Shoe : 600mm	4.5 m	kg							*14 350	*14 350	*11 610	*11 610	*10 260	8 620	*8 790	6 450	*8 060	6 360	9.1
CWT : 7 250kg	3 m	kg							*18 440	17 560	*13 580	11 510	*11 290	8 310	9 680	6 320	*8 390	5 960	9.3
	1.5 m	kg							*21 460	16 560	*15 330	10 970	*12 280	8 020	9 530	6 170	8 990	5 830	9.4
	0 m	kg							*22 610	16 130	*16 410	10 630	12 300	7 810	9 420	6 080	9 240	5 960	9.1
	-1.5 m	kg			*15 110	*15 110	*22 370	16 060	*16 640	10 500	12 200	7 720			9 980	6 410	8.6		
	-3 m	kg	*17 590	*17 590	*23 840	*23 840	*20 970	16 200	*15 880	10 550	*12 270	7 790			*11 520	7 380	7.8		
	-4.5 m	kg			*24 300	*24 300	*17 980	16 570	*13 490	10 820					*11 830	9 580	6.6		
Boom : 6.45m	9 m	kg													*6 920	*6 920	7.2		
Arm : 3.9m	7.5 m	kg									*8 160	*8 160			*6 470	*6 470	8.4		
Shoe : 600mm	6 m	kg									*8 510	*8 510	*7 680	6 640	*6 310	*6 310	9.2		
CWT : 7 250kg	4.5 m	kg							*10 380	*10 380	*9 380	8 740	*8 850	6 530	*6 370	5 720	9.7		
	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
	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
	0 m	kg			*9 320	*9 320	*22 030	16 170	*15 870	10 650	12 290	7 790	9 370	6 020	*7 760	5 350	9.8		
	-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																		

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	Along UC	Across UC	m
Boom :	6.45m	7.5 m	kg														*10 420	9 410	7.0
Arm :	2.6m	6 m	kg														*10 360	7 580	8.0
Shoe :	600mm	4.5 m	kg					*16 080	*16 080	*12 580	11 460	*10 970	8 170				10 220	6 660	8.5
CWT :	6 700kg	3 m	kg							*14 430	10 880	*11 870	7 890				9 570	6 200	8.8
		1.5 m	kg							*15 940	10 420	12 010	7 640				9 410	6 060	8.8
		0 m	kg					*21 850	15 450	16 650	10 160	11 830	7 480				9 720	6 230	8.6
		-1.5 m	kg			*14 880	*14 880	*21 890	15 500	*16 550	10 110	11 800	7 450				10 650	6 790	8.1
		-3 m	kg			*26 310	*26 310	*19 940	15 720	*15 270	10 230						*12 160	8 040	7.2
		-4.5 m	kg			*20 930	*20 930	*16 070	*16 070								*12 110	11 170	5.8
Boom :	6.45m	7.5 m	kg									*9 370	8 590				*8 200	*8 200	7.7
Arm :	3.2m	6 m	kg									*9 500	8 520				*7 980	6 850	8.5
Shoe :	600mm	4.5 m	kg					*14 350	*14 350	*11 610	*11 610	*10 260	8 270	*8 790	6 170		*8 060	6 090	9.1
CWT :	6 700kg	3 m	kg					*18 440	16 870	*13 580	11 050	*11 290	7 960	9 310	6 040		*8 390	5 690	9.3
		1.5 m	kg					*21 460	15 870	*15 330	10 510	12 050	7 670	9 150	5 900		8 640	5 570	9.4
		0 m	kg					*22 610	15 440	*16 410	10 170	11 820	7 460	9 050	5 800		8 870	5 690	9.1
		-1.5 m	kg			*15 110	*15 110	*22 370	15 370	16 510	10 040	11 720	7 370				9 580	6 120	8.6
		-3 m	kg	*17 590	*17 590	*23 840	*23 840	*20 970	15 510	*15 880	10 090	11 790	7 440				11 120	7 060	7.8
		-4.5 m	kg			*24 300	*24 300	*17 980	15 880	*13 490	10 360						*11 830	9 170	6.6
Boom :	6.45m	9 m	kg														*6 920	*6 920	7.2
Arm :	3.9m	7.5 m	kg									*8 160	*8 160				*6 470	*6 470	8.4
Shoe :	600mm	6 m	kg									*8 510	*8 510	*7 680	6 360		*6 310	6 080	9.2
CWT :	6 700kg	4.5 m	kg							*10 380	*10 380	*9 380	8 400	*8 850	6 250		*6 370	5 470	9.7
		3 m	kg					*16 410	*16 410	*12 460	11 240	*10 510	8 050	9 360	6 080		*6 600	5 140	10.0
		1.5 m	kg					*20 040	16 160	*14 440	10 630	*11 650	7 710	9 160	5 890		*7 040	5 020	10.0
		0 m	kg			*9 320	*9 320	*22 030	15 480	*15 870	10 190	11 810	7 440	9 000	5 750		*7 760	5 100	9.8
		-1.5 m	kg	*9 510	*9 510	*14 220	*14 220	*22 500	15 240	16 440	9 960	11 640	7 290	8 930	5 680		8 490	5 420	9.3
		-3 m	kg	*14 830	*14 830	*20 550	*20 550	*21 740	15 270	*16 250	9 930	11 620	7 270				9 600	6 090	8.6
		-4.5 m	kg	*21 190	*21 190	*27 500	*27 500	*19 600	15 530	*14 770	10 080						*11 110	7 500	7.5
		-6 m	kg			*20 790	*20 790	*15 130	*15 130								*11 300	11 180	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.

EQUIPMENTS.

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

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

Frame

Access way with handrail

Tool storage area

Punched metal anti-slip plates

Undercover (heavy-duty)

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

Undercarriage

Undercover (heavy-duty)

Hydraulic track adjusters

Greased and sealed track link

Track Guard

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

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

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

Undercarriage

Full track guard

Track shoes

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

Track shoes 600 mm HD with triple grousers

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



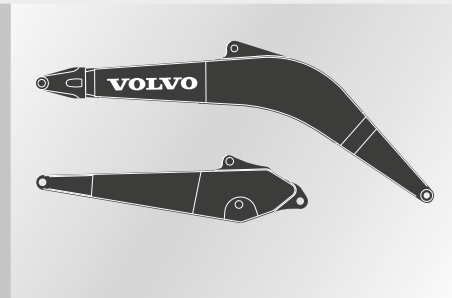
LED Lights



Air compressor



Mass excavation





VOLVO

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