

V O L V O

EC380DL, EC480DL

Volvo Construction Equipment. Building Tomorrow



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 over 190 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.



Powering your productivity

Get productive with Volvo's EC380DL and EC480DL. Featuring high engine torque at low revolutions and enhanced hydraulics, sustain optimum power and productivity day in and day out with Volvo.

Digging power

Achieve greater digging force and reduced cycle times, particularly when working with hard materials, from high engine power, pump flow, hydraulic pressure and swing torque.



Advanced hydraulics

Quick cycle time with enhanced hydraulic system provides more flow to the bucket by using both pumps in conflux, as well as increased total pump flow and smooth combined operation. Boom, arm & swing priority along with boom & arm regeneration provide optimum performance.

Capitalize on fuel efficiency

Fuel efficiency is at the centre of Volvo's machines. The EC380DL and EC480DL feature Volvo's reliable D13 engine, advanced hydraulics and our unique ECO mode for superior fuel efficiency. Reduce your fuel consumption, save money and reach new levels of efficiency with Volvo. This ensures, more material is moved per liter of fuel for reduced operating cost.

Volvo D13 Engine

Reliable and proven Volvo D13 Engine and well-matched hydraulics deliver a new level of fuel efficiency in a range of operating conditions.

ECO mode

Volvo's unique ECO mode features sophisticated electronic pump control technology which improves fuel efficiency by an additional 5%. ECO mode can be used in the G, H and P work modes.

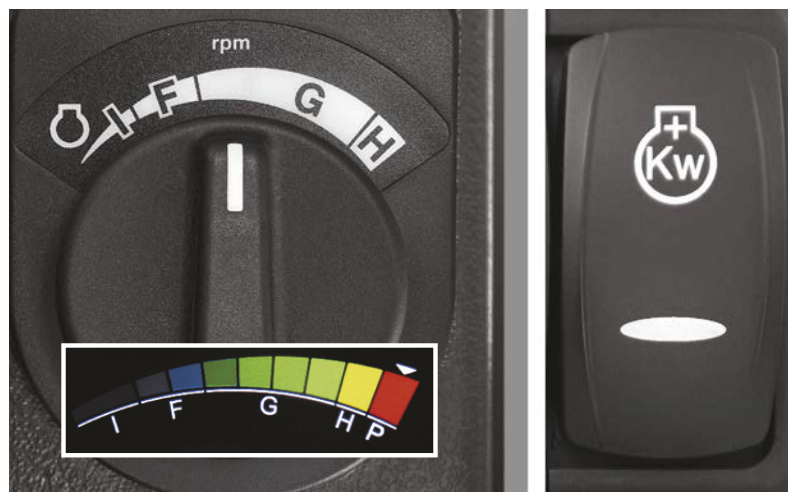
Auto idling system

Reduces rpm to idle when the controls are inactive for a specified time – between 3-20 seconds – which is set via the I-ECU monitor. The system delivers reduced fuel consumption and operating costs.



Auto engine shut down

The auto engine shut down function automatically turns the engine off to reduce fuel consumption when the machine is inactive for five minutes. Operators are informed via the I-ECU monitor before shut down occurs.



Work modes

Volvo's unique system incorporates the work modes within the throttle control for optimum performance. When the operator selects a work mode – I (Idle), F (Fine), G (General), H (Heavy) and P (Power) – the rpm is already set for maximum efficiency.

Built to outlast

If you're looking for strong and durable performance then look no further. These machines excel in demanding terrain. Featuring reinforced welding and heavy-duty protection, no job is too tough for Volvo's reliable machines – rest assured that the work will get done.

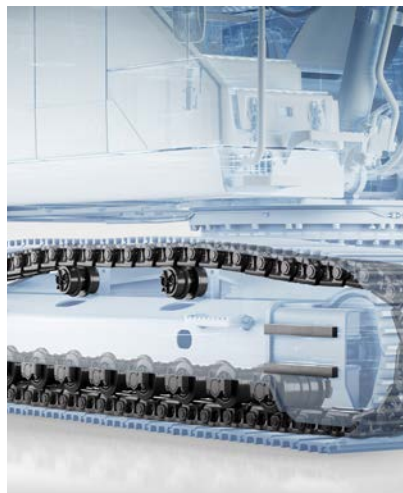
Boom and arm

Reinforced heavy-duty boom and arm built from high strength tensile steel increases reliability in severe applications. Protective strips are welded under the arm.



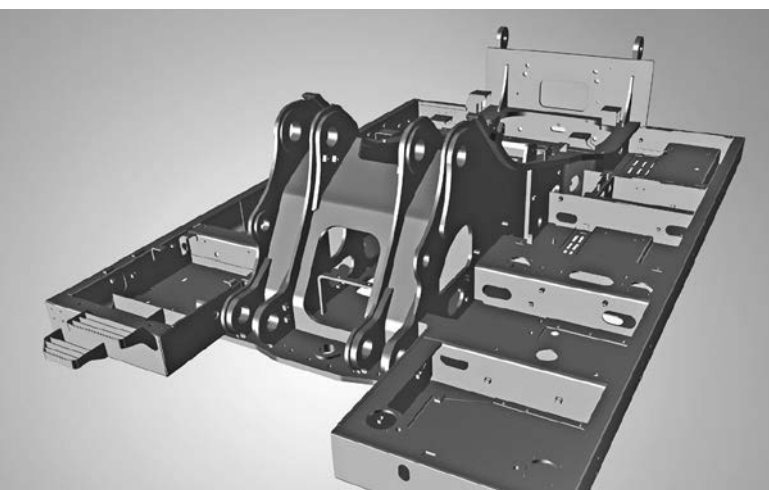
Undercarriage

Strong undercarriage featuring a durable fabricated idler, a large diameter roller and a thicker tooth sprocket and track link for increased machine lifetime. The lower frame features additional welding and thicker plating for added protection in demanding terrain.



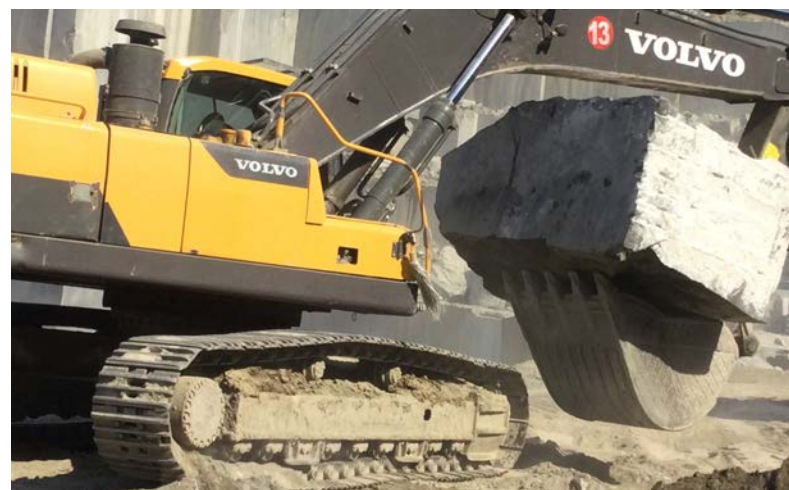
Protective cover

For increased durability, heavy-duty undercover plates provide additional protection to the underside of the upper and lower frame in tough job site applications, preventing damage from rock and debris.



Main frame

The strong and durable structure can easily absorb impacts transferred from the digging equipment. Featuring reinforced welding between the center and side frames, and the boom and boom cylinder mounts, for increased durability.



Track guard

Heavy-duty bolt-on track roller guards are fitted to protect the bottom rollers and track chain. Full track guards are available as an option.

Track shoes

EC380DL is provided with HD track shoes for better durability in granite, marble & aggregate quarries

Absolute Operator Comfort & Safety with Volvo CareCab

See more and do more from Volvo CareCab which provides operators with a superior working environment for reduced fatigue. Featuring built-in comfort and safety, all-round visibility and easy to access controls for increased productivity. Step inside and see the results for yourself.

Volvo CareCab

Volvo's industry-leading cab boasts enhanced visibility from slim cab pillars, large expanses of glass and large wiper coverage. The spacious environment provides ample storage and leg room. The ergonomic seat with suspension can be adjusted into nine positions for superb operator comfort.

ROPS

Roll Over Protective Structure (ROPS) certified cab (ISO 12117-2) is provided for increased safety in the unlikely event of a roll over.



Climate control

Control your climate with Volvo's powerful, industry-leading automatic climate control and defrosting system. With 14 vents, operators can set their ideal temperature for increased comfort.



Rear view camera

Increase visibility and safety with an optional rear view camera which allows the operator to see the blind spot via the I-ECU monitor.



I-ECU monitor

Large color monitor provides excellent clarity in all light conditions. Using a keypad you can make quick visual and diagnostic checks, increasing uptime and productivity.

Volvo Safety Commitment

Standard safety features



10 LED Lights including rear



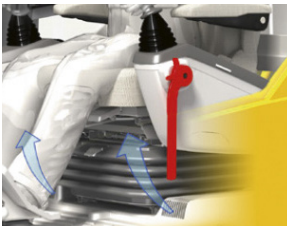
Swing Lock System



Accumulator for Boom lowering



Battery cut-off switch



Hydraulic cut-off lever



Punched metal anti-slip plates



Baffle Plate between engine & pump compartment



Emergency Exit & Hammer cum Seat Belt Cutter



3 -point contact access



Pull-up type openable front upper window & removable front lower window



Three-Point Seat Belt with reminder



Access way with Handrail

- Fire retardant electrical wires & hoses
- Travel Alarm

Optional safety features



Operator fatigue warning system



Manual Fire Extinguisher (Inside / Outside the Cab)



Automatic Fire Detection & Suppression System (AFDSS)



Falling Object Protective Structure (FOPS) Front Windshield Guard



Audio Visual Alarm



Turbocharger guard



Fire resistant sleeves on hoses



Exhaust tube coating

- Hose rupture valve

Intelligent serviceability

Volvo machines feature built in serviceability for maximum machine uptime. Benefit from safe and convenient maintenance access and reduced service time. Enjoy maintenance made easy with Volvo.

Serviceability

Grouped filters and greasing points from ground level via large, wide compartment doors are easy to access for maintenance, giving you more uptime.



Oil cooler

Volvo's unique, hydraulic fan-driven oil cooler is separate from the engine and radiator for easier cleaning and servicing – giving you more machine uptime. Independent coolers provide excellent cooling.



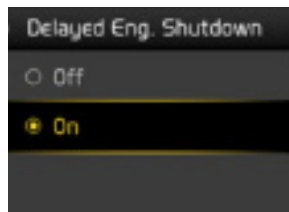
Air pre-cleaner

The oil bath / cyclone air pre-cleaner provides 3-stage air filtration & prevents dirt from entering the engine. It helps reduce maintenance costs and improves reliability. It is recommended for machines working in dusty environments.



Delayed Engine Shutdown

The new Delayed Engine Shutdown allows the engine to idle for a certain time after the ignition has been turned off. It keeps the engine running until the engine is cool. When the engine has cooled down, the machine shall go to a complete shutdown.



Combined Water Separator

It has new element high performance water separator. This vastly improves performance. The new filter delivers up to 99.7% water separation efficiency and un-separated water goes down up to 80%. The larger bowl & filter can reduce the frequency of water in fuel alarms with as much as 60%.



Volvo Connected Services

The Power of CareTrack

CareTrack is the Volvo Construction Equipment telematics system that gives you access to a wide range of machine monitoring information designed to save you time and money. With CareTrack you can reduce fuel costs, optimize machine and operator performance and proactively manage service and maintenance to maximize uptime. Stay connected to your machines via remote monitoring and experience new levels of control and efficiency with CareTrack.

Volvo Uptime Center

We understand the importance of uptime when it comes to the success of your operation, which is why Volvo Construction Equipment has invested in creating Volvo Uptime Centers throughout the world.

Our Volvo machine experts work in these Centers, utilizing the most advanced diagnostic tools and systems, to help keep uptime to a maximum.

How it works

- Machine data is captured via CareTrack, the Volvo telematics system and sent to the Volvo Uptime Center
- Volvo experts monitor machines in real-time and send alerts to the Volvo dealer. If action is needed, your dealer will contact you to advise on the next steps.
- The information is also compiled into a PDF report and sent to you every week

ActiveCare

The optional Volvo ActiveCare is the comprehensive service that combines 24/7 machine monitoring and fleet utilization reports to increase uptime of your fleet. It is designed to keep your machines in top operating condition, reduce unplanned downtime and minimize repair costs.

24/7 machine monitoring

We are at your service

With Volvo ACTIVECARE, Volvo monitors the health of your machines remotely, and immediately alerts you if a machine intervention is required. This proactive approach helps to prevent breakdowns, while leaving you more time to focus on your core operations.

Reduce unplanned downtime

Volvo provides insights into your machine's health, so problems can be identified and fixed at the earliest opportunity.

Minimize unexpected costs

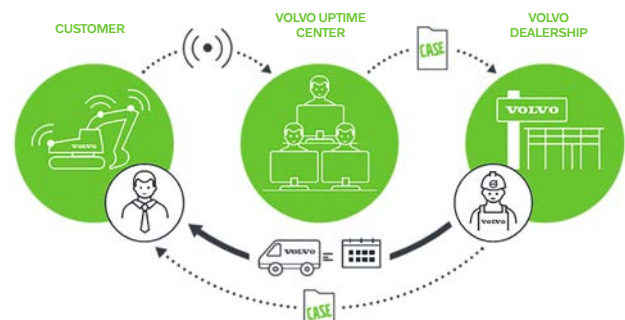
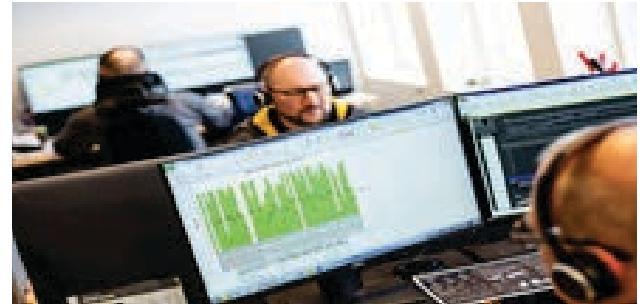
Your dealer can advise you on whether your machine requires immediate action, or if the repair can be scheduled into your next service, therefore streamlining maintenance requirements.

Optimize machine repair time

Spend more time working and less time waiting. Thanks to remote diagnosis, a technician arrives suitably prepared for the job.

Tailored recommendations

Eliminate recurring machine faults. Your dealer can examine how your machine is being operated and why certain actions may be causing problems. Whatever the cause, Volvo can advise on the best solution, tailored to your specific application.



Put reports into action

Ready-made analysis

Designed to identify areas where uptime could be improved, a weekly report provides insights into how your machines are being used. Take action and work closely with your Volvo dealer to ensure your machine stays in optimum condition.

Easy-to-use data

The report presents vital information in an easy-to-understand format. The report is customized and provides information as a fleet overview, right down to individual machines on site.

Control costs

The report makes it easy to detect irregular machine operations and helps you to ensure your machine is being used appropriately. Information such as instances of unwanted strain on the machine, you can improve operating practices, minimize repair costs and efficiently manage service routines.

What is analysed?

- Operating behaviour alerts

For each operating alert, the report includes an explanation of the long-term effects, as well as tips on how to avoid it.

- Technical alarms

Technical alarms such as low coolant level and high engine temperature are generated by the machine to highlight areas which require attention.

Repair & Maintenance Agreements

With Repair & Maintenance Agreements, you can not only mine quarries and build roads with maximum uptime, expert knowledge and enhanced productivity, but you can also have an impact on infrastructure in towns, cities and country with full support from your Volvo dealer.

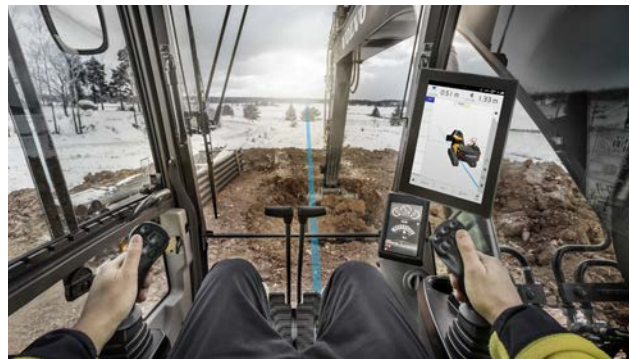
Focus on your core business

Customer Support Agreements can help you to focus on the most important part of your business with peace of mind, You can increase efficiency and maximize uptime to ensure correct and smooth operations take place at your job site.



Cost control

An agreed price per hour helps you plan your operations, reduce your risk and make you more competitive in bidding for contracts. Your trained Volvo Service Technician can take care of your machine more efficiently thanks to their knowledge and preventative maintenance approach - detecting problems sooner rather than later to avoid sudden and costly repairs.



Dealer relationship

Customer Support Agreements strengthen the relationship between dealer and customer, encouraging both parties to keep touch throughout the partnership.

Customer Support Agreements create a unique relationship that will help your business deliver its project successfully on time.

Maximize uptime potential

The Volvo Service Program is a set of specific actions and check; that are performed by trained Volvo Service Technicians on your machine. Through proactive, e analysis and maintenance, savings are made in the long run. Volvo analysis tools use the latest technology to monitor machine operation and performance.

Levels of RMA



White RMA
Regular machine inspections.



Blue RMA
Regular machine inspections and Preventive maintenance.



Silver RMA
Regular machine inspections, Preventive maintenance and Repairs on selected components.



Gold RMA
Regular machine inspections, Preventive maintenance and all required Repairs.

Volvo EC380DL & EC480DL in detail

Engine	EC380DL	EC480DL
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The Volvo diesel engine delivers lower emissions, superior performance and fuel efficiency. The engine uses precise, high-pressure fuel injectors, turbo charger and inter cooler, and electronic engine controls to optimize machine performance.

Air Filter: 3-stage with pre-cleaner.

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 III)	Volvo	D13F	D13F
Max power at	r/min	1700	1800
Net, ISO 9249/SAE J1349	kW / hp	212 / 288	261 / 355
Gross, ISO 14396/SAE J1995	kW / hp	219 / 298	270 / 367
Max torque	Nm	1580	1800
at engine speed	r/min	1300	1400
No. of cylinders		6	6
Displacement	l	12.8	12.8
Bore x Stroke	mm x mm	131 x 158	131 x 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	24
Batteries	V	2 x 12	2 x 12
Battery capacity	Ah	200	200
Alternator	V / Ah	28 / 80	28 / 80

Hydraulic System

The hydraulic system, also known as the "Automatic Sensing Work Mode", is designed for high productivity, digging capacity, maneuvering precision and excellent fuel economy. The summation system, boom, arm and swing priority along with boom and arm regeneration provides optimum performance.

The following important functions are included in the system:

Summation system: Combines the flow of both hydraulic pumps to ensure quick cycle times and high productivity.

Boom priority: Gives priority to the boom operation for faster raising when loading or performing deep excavations.

Arm priority: Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.

Swing priority: Gives priority to swing functions for faster simultaneous operations.

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

Power boost: All digging and lifting forces are increased.

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

Main Pump - 2 x Variable displacement axial piston pumps			
Maximum flow	l/min	2 x 300	2 x 358
Pilot Pump - 1 x Gear Pump			
Maximum flow	l/min	1 x 31	1 x 32
Relief valve setting pressure			
Implement	Mpa	32.4 / 35.3	32.4 / 35.3
Travel circuit	Mpa	35.3	32.4
Slew circuit	Mpa	27.9	25.8
Pilot circuit	Mpa	3.9	3.9

Hydraulic Motors

Travel: Variable displacement axial piston motor with mechanical brake

Slew: Fixed Displacement axial piston motor with mechanical brake

Swing System	EC380DL	EC480DL
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The swing system uses axial piston motor, driving a planetary gearbox for maximum torque. An Automatic holding brake and anti-rebound valve are standard

Maximum slew speed	r / min	10.3	8.8
Maximum slew torque	kNm	130.5	166

Travel System

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

Max. drawbar pull	kN	276	330
Max. travel speed (low)	km/h	3.4	3.1
Max. travel speed (high)	km/h	5.3	5.1
Gradeability	°	35	35

Hydraulic Cylinders

Boom		2	2
Bore x Stroke	Ø x mm	160 x 1530	165 x 1590
Arm		1	1
Bore x Stroke	Ø x mm	175 x 1750	190 x 1850
Bucket (ME)		1	1
Bore x Stroke	Ø x mm	160 x 1250	175 x 1335

Undercarriage

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

Track shoes		2 x 50	2 x 52
Link pitch	mm	216	216
Shoe width	mm	600	600
Bottom rollers		2 x 9	2 x 9
Top rollers		2 x 2	2 x 2

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.

Refrigerant of the type R134 is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a. Global warming potential 1.430t CO₂ - eg.

Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operators. The seat has 9 different adjustments plus a seat belt for the operator's comfort and safety.

Sound Level

Sound level in cab according to ISO 6396

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

LwA	dB(A)	106	107
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Service Refill

Fuel tank	l	620	685
Hydraulic System, total	l	485	520
Hydraulic tank	l	227	270
Engine oil	l	55	55
Engine coolant	l	60	60
Slew reduction unit	l	6.5	2 x 6
Travel reduction unit	l	2 x 6.8	2 x 8

Specifications

Machine Weights and Ground Pressure

Description		EC380DL			EC480DL			EC380DLR			EC480DLR		
Boom	m	6.2			6.5			8.5			9.0		
Arm	m	2.6			2.55			5.0			6.0		
Bucket	Cu.m	2.3 GP			3.1 GP			1.4 GP			1.6 GP		
	kg	2 155			2 346			1 090			1 162		
Counter weight	kg	7 000			9 050			8 500			10 300		
Shoe width	mm	600HD			600			800			800		
Triple Grouser	Operating weight												
	Ground pressure												
	Overall width												
	kg												
	kPa												
	mm												
	kg	38 960	70.6	3 340	48120	83.8	3 340	41 410	56.6	3 540	51 510	67.1	3 540

Bucket Selection Guide

Direct fit Buckets		EC380DL with 7 000 kg CWT				EC480DL with 9 050 kg CWT			
Boom	m	6.2				6.5			
Arm	m	2.6				2.55			
Bucket Type	Material Density	Bucket Capacity	Cutting width	Weight	Bucket Capacity	Cutting width	Weight		
	t/m³	Cu.m	mm	kg	Cu.m	mm	kg		
General Purpose	1.6				3.45	1 980	2 570		
	1.8	2.3	1 860	2 155	3.1	1 960	2 346		
Heavy Duty	1.6	1.84	1 734	1 850	2.84	1 940	2 715		
	1.8	1.6	1 490	1 585	2.45	1 799	2 200		

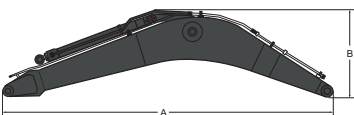
Note: Bucket size based on ISO 7451, heaped material with a 1:1 angle of repose. The recommendations are given as a guide only.

Dimensions

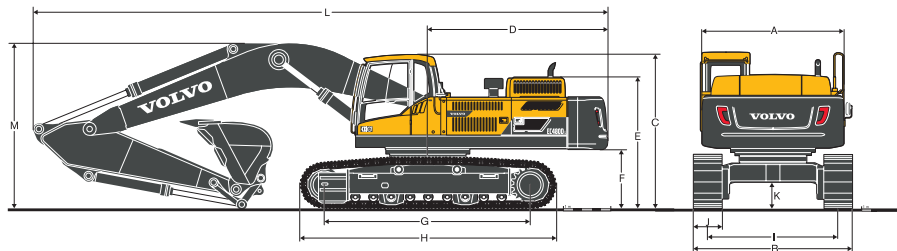
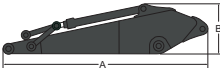
Description	Unit	EC380DL		EC480DL		EC380DLR		EC480DLR	
		Boom	Arm	Boom	Arm	Boom	Arm	Boom	Arm
	m	6.2	2.6	6.5	2.55	8.50	5.0	9.0	6.0
A. Length	mm	6 460	3 780	6 750	3 770	8 750	6 180	9 270	7 200
B. Height	mm	1 740	1 150	2 000	1 270	1 910	1 040	1 950	1 180
Width	mm	820	560	960	600	820	560	960	560
Weight	kg	3 530	2 050	4 300	2 340	4 856	2 527	6 080	3 163

* Includes arm cylinder, piping and pin

Boom

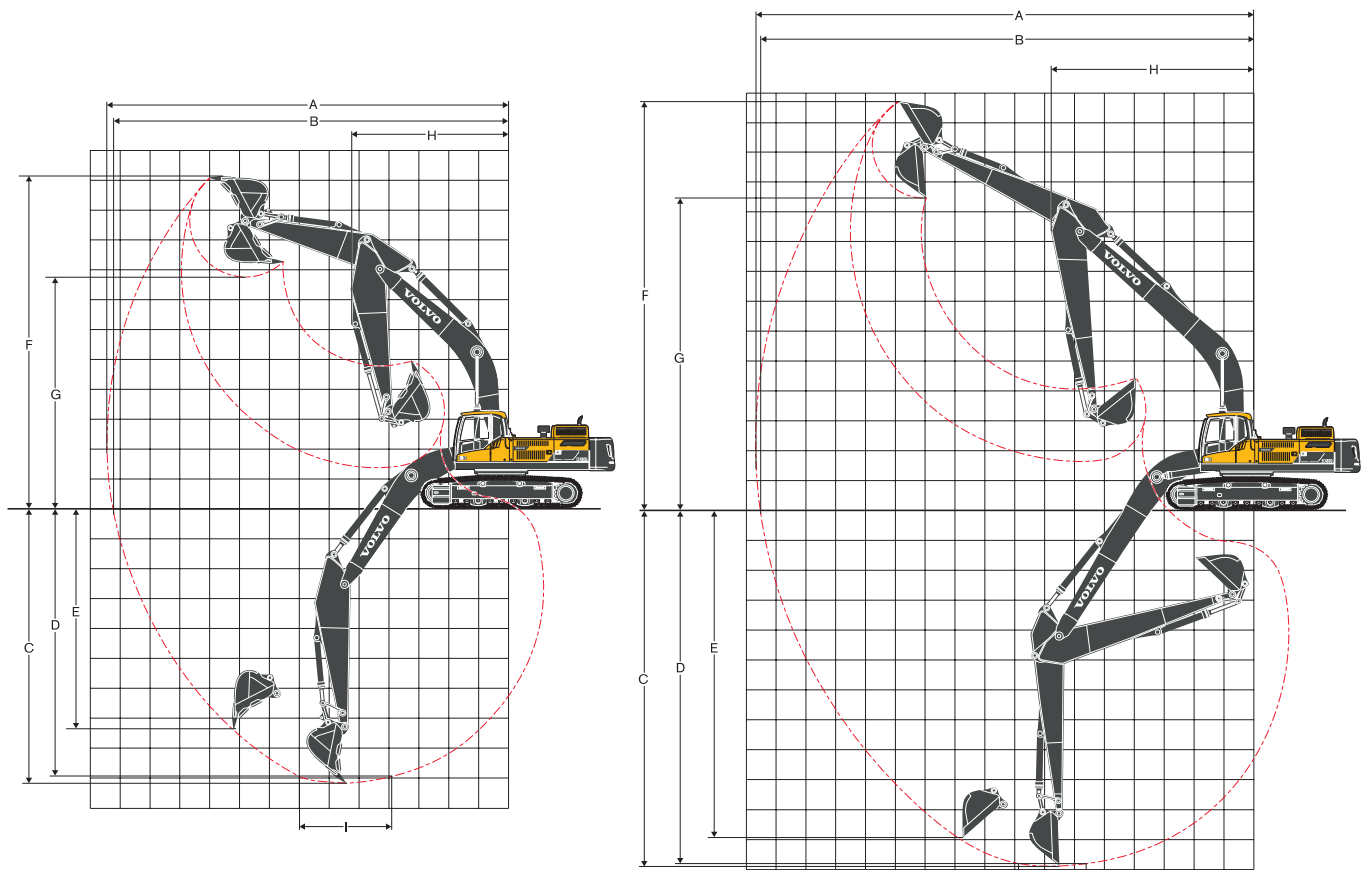


Arm



Description	Unit	EC380DL	EC480DL	EC380DLR	EC480DLR
Boom	m	6.2	6.5	8.5	9.0
Arm	m	2.6	2.55	5.0	6.0
A. Overall width of upper structure	mm	2 990	2 990	2 990	2 990
B. Overall width	mm	3 340	3340	3740	3740
C. Overall height of cab	mm	3 197	3 257	3 197	3 257
D. Tail slew radius	mm	3 560	3 800	3 560	3 800
E. Overall height of engine hood	mm	2 720	2 770	2 720	2 770
F. Counterweight clearance	mm	1 210	1 275	1 210	1 275
G. Tumbler length	mm	4 240	4 370	4 240	4 370
H. Track length	mm	5 180	5 370	5 180	5 370
I. Track gauge	mm	2 740	2 740	2 740	2 740
J. Shoe width	mm	600	600	800	800
K. Min. ground clearance	mm	500	550	500	550
L. Overall length	mm	11 080	11 630	13 080	13 620
M. Overall height of boom	mm	3 700	3 770	4 480	5 630

Working Range



Description	Unit	EC380DL	EC480DL	EC380DLR	EC480DLR
Boom	m	6.2	6.5	8.5	9.0
Arm	m	2.6	2.55	5.0	6.0
A. Max. digging reach	mm	10 430	10 930	14 750	16 460
B. Max. digging reach on ground	mm	10 210	10 680	14 590	16 300
C. Max. digging depth	mm	6 740	6 580	10 980	11 870
D. Max. digging depth (l. 2.44 m level)	mm	6 550	6 410	10 860	11 770
E. Max. vertical wall digging depth	mm	5 260	5 990	10 370	11 240
F. Max. cutting height	mm	10 070	10 600	12 610	13 750
G. Max. dumping height	mm	6 820	6 970	9 610	10 700
H. Min. front swing radius	mm	4 120	4 780	5 730	6 610

Digging forces with direct fit bucket				Unit	EC380DL	EC480DL	EC380DLR	EC480DLR
Bucket radius				mm	1 810	1 923	1 598	1 598
Breakout force - bucket	Normal	SAE J1179		kN	215	253	148	163
		Power boost	SAE J1179	kN	235	275	148	178
	Normal	ISO 6015		kN	243	285	166	183
		Power boost	ISO 6015	kN	265	311	166	200
Tear out force - Dipper arm	Normal	SAE J1179		kN	188	225	120	130
		Power boost	SAE J1179	kN	206	244	131	142
	Normal	ISO 6015		kN	194	232	122	132
		Power boost	ISO 6015	kN	212	253	133	144

Specifications

LIFTING CAPACITY EC380DL																	
Lifting hook related to ground			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	mm
Boom 6.2 m Arm 2.6 m Shoe 600 mm CWT 7000 kg	7.5m	kg	-	-	-	-	-	-	*10 730	*10 730	-	-	-	-	*10 940	9 450	6 717
	6.0m	kg	-	-	-	-	-	-	*11 270	*11 270	*10 800	7 820	-	-	*10 620	7 480	7 694
	4.5m	kg	-	-	-	-	*15 950	*15 950	*12 740	10 840	*11 260	7 670	-	-	10 060	6 520	8 288
	3.0m	kg	-	-	-	-	*19 950	15 770	*14 580	10 320	11 600	7 430	-	-	9 380	6 050	8 579
	1.5m	kg	-	-	-	-	*22 520	15 010	16 080	9 900	11 350	7 210	-	-	9 220	5 910	8 600
	0m	kg	-	-	-	-	*23 070	14 750	15 800	9 650	11 190	7 060	-	-	9 560	6 100	8 351
	-1.5m	kg	-	-	*17 930	*17 930	*22 250	14 760	15 720	9 590	11 170	7 050	-	-	10 550	6 690	7 807
	-3.0m	kg	-	-	*26 840	*26 840	*20 070	14 970	*15 200	9 720	-	-	-	-	*12 570	8 050	6 898
	-4.5m	kg	-	-	-	-	*15 500	15 450	-	-	-	-	-	-	*12 300	11 660	5 439
LIFTING CAPACITY EC480DL																	
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	mm
Boom 6.5 m Arm 2.55 m Shoe 600 mm CWT 9050 kg	7.5m	kg	-	-	-	-	-	-	-	-	-	-	-	-	*12 430	10 810	7249
	6.0m	kg	-	-	-	-	-	-	*13 390	*13 390	*12 350	10 180	-	-	*12 280	8880	8143
	4.5m	kg	-	-	-	-	*19 980	*19 980	*15 270	13 820	*13 110	9920	-	-	12 330	7900	8686
	3.0m	kg	-	-	-	-	*24 400	19 800	*17 390	13 170	*14 160	9600	-	-	11 630	7420	8944
	1.5m	kg	-	-	-	-	*17 490	*17 490	*19 000	12 680	14 930	9330	-	-	11 510	7310	8942
	0m	kg	-	-	-	-	*25 680	18 950	*19 670	12 440	14 750	9160	-	-	11 940	7550	8680
	-1.5m	kg	-	-	*18 840	*18 840	*25 280	19 030	*19 250	12 400	14 730	9150	-	-	13 140	8260	8132
	-3.0m	kg	-	-	*29 180	*29 180	*22 630	19 300	*17 440	12 560	-	-	-	-	*13 600	9810	7231
	-4.5m	kg	-	-	-	-	*17 530	*17 530	-	-	-	-	-	-	*12 950	*12 950	5813
LIFTING CAPACITY EC380DLR																	
Lifting hook related to ground level			4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 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	mm
Boom 8.5 m Arm 5.0 m Shoe 800 mm CWT 8500 kg	10.5m	kg	-	-	-	-	-	-	-	-	-	-	-	-	*5 170	*5 170	10 111
	9.0m	kg	-	-	-	-	-	-	-	-	*5 440	*5 440	-	-	*4 920	4 830	11 195
	7.5m	kg	-	-	-	-	-	-	-	-	*5 520	5 440	-	-	*4 790	4 210	11 995
	6.0m	kg	-	-	-	-	-	-	*6 050	*6 050	*5 830	5 310	*5 770	4 170	*4 770	3 810	12 564
	4.5m	kg	-	-	-	-	*7 610	*7 610	*6 780	6 550	*6 280	5 120	*6 010	4 080	*4 830	3 540	12 934
	3.0m	kg	-	-	*11 240	11 120	*8 910	8 120	*7 610	6 230	*6 820	4 920	6 160	3 960	*4 970	3 380	13 122
	1.5m	kg	-	-	*13 190	10 330	*10 150	7 640	*8 430	5 920	*7 370	4 730	6 040	3 840	*5 200	3 310	13 135
	0m	kg	-	-	*14 550	9 830	*11 150	7 280	9 000	5 680	7 200	4 560	5 930	3 740	5 290	3 320	12 974
	-1.5m	kg	*9 860	*9 860	*15 280	9 580	11 460	7 050	8 810	5 510	7 080	4 450	5 860	3 680	5 460	3 420	12 633
	-3.0m	kg	*13 220	*13 220	*15 500	9 500	11 350	6 950	8 720	5 420	7 020	4 390	5 860	3 680	5 800	3 640	12 096
	-4.5m	kg	*17 640	14 850	*15 250	9 560	11 360	6 960	8 720	5 420	7 050	4 420	-	-	6 380	4 020	11 335
	-6.0m	kg	*18 830	15 160	*14 470	9 730	11 490	7 070	8 830	5 520	-	-	-	-	7 380	4 670	10 300
	-7.5m	kg	*16 650	15 630	*12 950	10 040	*10 300	7 320	-	-	-	-	-	-	*8 130	5 880	8 893
	-9.0m	kg	*12 990	*12 990	*9 990	*9 990	-	-	-	-	-	-	-	-	*8 310	*8 310	6 889
LIFTING CAPACITY EC480DLR																	
Lifting hook related to ground level			6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 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	mm
Boom 9.0 m Arm 6.0 m Shoe 800 mm CWT 10300 kg	12.0m	kg	-	-	-	-	-	-	-	-	-	-	-	-	*5 190	*5 190	11 167
	10.5m	kg	-	-	-	-	-	-	-	-	*5 340	*5 340	-	-	*4 830	*4 830	12 330
	9.0m	kg	-	-	-	-	-	-	-	-	*5 180	*5 180	-	-	*4 610	4 420	13 221
	7.5m	kg	-	-	-	-	-	-	-	-	*5 290	*5 290	*5 440	4 240	*4 490	3 960	13 892
	6.0m	kg	-	-	-	-	-	-	-	-	*5 560	5 260	*5 520	4 190	*4 440	3 640	14 374
	4.5m	kg	-	-	-	-	-	-	*6 300	*6 300	*5 940	5 080	*5 740	4 090	*4 450	3 430	14 686
	3.0m	kg	*11 680	*11 680	*9 230	*9 230	*7 830	7 670	*6 950	6 050	*6 380	4 870	*6 020	3 960	*4 520	3 290	14 839
	1.5m	kg	*13 930	12 590	*10 660	9 310	*8 790	7 210	*7 610	5 750	*6 840	4 670	6 300	3 830	*4 660	3 230	14 837
	0m	kg	*15 600	11 810	*11 860	8 760	*9 640	6 830	*8 220	5 490	*7 270	4 490	6 180	3 720	*4 870	3 240	14 682
	-1.5m	kg	*16 620	11 370	*12 720	8 390	*10 310	6 560	*8 730	5 290	7 240	4 350	6 100	3 650	*5 170	3 330	14 367
	-3.0m	kg	*17 090	11 190	*13 240	8 200	10 750	6 390	8 630	5 160	7 150	4 270	6 080	3 620	*5 580	3 500	13 883
	-4.5m	kg	*17 080	11 180	*13 400	8 140	10 680	6 320	8 590	5 120	7 140	4 270	-	-	*6 190	3 790	13 209
	-6.0m	kg	*16 590	11 320	*13 160	8 210	10 730	6 370	8 640	5 170	7 260	4 370	-	-	7 050	4 260	12 314
	-7.5m	kg	*15 510	11 600	*12 400	8 400	*10 120	6 540	*8 210	5 360	-	-	-	-	*7 300	5 030	11 145
	-9.0m	kg	*13 580	12 060	*10 810	8 770	*8 470	6 900	-	-	-	-	-	-	*7 390	6 420	9 601

Notes:

- Lifting capacity at the arm end without bucket. For lifting capacity including bucket, subtract actual weight of the direct fit bucket or the bucket with quick coupler from the above values.
- Machine in "Fine Mode-F" (Power Boost) for lifting capacities.
- The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.
- Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
- Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Equipment

Standard Equipment	EC380DL	EC480DL
Engine		
Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler	S	S
Air filter with indicator	S	S
Air intake heater	S	S
Oil bath pre-cleaner	O	S
Cyclone pre-cleaner	S	O
Electric engine shut-off	S	S
Fuel filter and combined water separator	S	S
Auto engine shutdown	S	S
Delayed engine shutdown	S	S
Alternator, 80 A	S	S
Electric / Electronic control system		
Contronics (Advanced mode control system / Self-diagnostic system)	S	S
Machine status indication	S	S
Engine speed sensing power control	S	S
Automatic idling system	S	S
One-touch power boost	S	S
Safety stop/start function	S	S
Adjustable LCD color monitor	S	S
Master electrical disconnect switch	S	S
Engine restart prevention circuit	S	S
LED lights(10): Frame-2 / Boom-4 / Cab Front-2 / Cab Rear-1 / Counterweight-1	S	S
Travel alarm	S	S
Batteries, 2 x 12 V / 200 Ah	S	S
Start motor, 24 V / 7 kW	S	S
Frame		
Access way with handrail	S	S
Tool storage area	S	S
Punched metal anti-slip plates	S	S
Undercover	S	S
Counterweight - 7000 kg	S	-
Counterweight - 9050 kg	-	S
Undercarriage		
Under cover	S	S
Hydraulic track adjusters	S	S
Greased and sealed track link	S	S
Track Guard	S	S
Track shoes - 600 mm with triple grousers	S	S
Hydraulic system		
Automatic sensing hydraulic system (summation / boom, arm & swing priority)	S	S
ECO mode fuel saving technology	S	S
Boom and arm regeneration valves	S	S
Swing anti-rebound valves	S	S
Boom and arm holding valves	S	S
Multi-stage filtering system	S	S
Cylinder cushioning	S	S
Cylinder contamination seals	S	S
Auxiliary hydraulic valve	S	S
Work tool management system (up to 20 programmable memories)	S	S
Automatic two-speed travel motors	S	S
Hydraulic oil, ISO VG 68	S	S
Cab and interior		
ROPS (ISO12117-2) certified cab	S	S
Silicon oil and rubber mounts with spring	S	S
Adjustable operator seat (fabric) with joystick control console	S	S
Control joysticks, semi long	S	S
Heater & air-conditioner, automatic	S	S
Flexible antenna	S	S
AM/FM stereo with CD player, MP3 & USB input	S	S
Hydraulic safety lock lever	S	S
Cab, all-weather sound suppressed, includes:		
– LED lights	S	S
– Cup holders	S	S
– Door locks	S	S
– Tinted glass	S	S
– Floor mat	S	S

S: Standard | O: Optional | -: NA

– Horn	S	S
– Large storage area	S	S
– Pull-up type front window	S	S
– Removable lower windshield	S	S
– Seat belt with reminder	S	S
– Safety glass	S	S
– Sun screens, front, roof, rear	S	S
– Windshield wiper with intermittent feature	S	S
– Emergency exit	S	S
– Hammer cum seat-belt cutter	S	S
Swing Lock System	S	S
Rear view camera	S	S
Universal key	S	S
Digging equipment (Boom / Arm)		
6.2 m / 2.6 m	S	-
6.5 m / 2.55 m	-	S
Service		
Tool kit, full scale	S	S
CARETRACK	S	S

Optional Equipment	EC380DL	EC480DL
Engine		
Block heater: 240 V	O	O
Diesel coolant heater, 5 kW	O	O
Combined Water separator with heater	O	O
Fuel filler pump, 35lpm, 50lpm with auto shut-off	O	O
Electric		
Anti-theft system	O	O
Rotating warning beacon	O	O
Frame		
Walk way	O	O
Rear view mirror on CWT	O	O
Cabin entrance	O	O
Full height counterweight:		
6 500 kg, 7 550 kg, 8 500 kg for long reach	O	-
8 450 kg, 9 750 kg, 10 300 kg for long reach	-	O
Undercarriage		
Full track guard	O	O
Mechanically retractable track gauge	-	O
Track shows - 700/800/900 mm with triple grousers	O	O
Track shoes - 600 mm with double grousers	O	O
Hydraulic system		
Hose rupture valve: boom, arm	O	O
Overload warning device	O	O
Boom float function without/with HRV	O	O
Hydraulic piping:		
– Hammer & shear, 1 and 2 pump flow	O	O
– Hammer & shear: variable flow and pressure pre-setting	O	O
– Additional return filter	O	O
– Slope & rotator	O	O
– Grapple	O	O
– Oil leak (drain) line	O	O
– Quick coupler piping	O	O
Hydraulic oil, ISO VG 32	O	O
Cab and interior		
Control joysticks with 4 switches each	O	O
Control joysticks with 3 switch & 1 proportional	O	O
Opening top hatch	O	O
Falling object guard (FOG)	O	O
Falling object protective structure (FOPS)	O	O
Safety net for front window	O	O
Smoker kit (ashtray and lighter)	O	O
Sunlight protection, roof (steel)	O	O
Lower wiper with intermittent control	O	O
Rain shield	O	O
Specific key	O	O
Digging equipment		
Boom: 6.45m monoblock / 8.5m long reach	O	-
Arm: 3.2m, 3.9m / 5.0m long reach	O	-
Boom: 7.0m monoblock / 9.0m long reach	-	O
Arm: 3.0m, 3.35m, 3.9m, 4.8m/6.0m long reach	-	O

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