

VOLVO EXCAVATORS

EC380D, EC480D

38-56 t 292-360 hp



VOLVO EC380D, EC480D IN DETAIL.

Engine

The latest generation, Volvo engine Tier 4i (Stage IIIB) 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, 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.

EC380D

Engine Tier 4i (Stage IIIB)	Volvo	D13H
Max power at	r/s / r/min	28 / 1 700
Net, ISO 9249/SAE J1349	kW / hp	208 / 283
Gross, ISO 14396/SAE J1995	kW / hp	215 / 292
Max torque at	Nm / r/min	1 580 / 1 300
No. of cylinders		6
Displacement	l	12.8
Bore	mm	131
Stroke	mm	158

EC480D

Engine Tier 4i (Stage IIIB)	Volvo	D13H
Max power at	r/s / r/min	30 / 1 800
Net, ISO 9249/SAE J1349	kW / hp	256 / 348
Gross, ISO 14396/SAE J1995	kW / hp	265 / 360
Max torque at	Nm / r/min	1 800 / 1 400
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.

		EC380D	EC480D
Voltage	V	24	24
Batteries	V	2 x 12	2 x 12
Battery capacity	Ah	200	200
Alternator	V / Ah	28 / 80	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	8.8
Max. slew torque	kNm	130.5	166.3

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	333
Max. travel speed	km/h	3.4/5.5	3.1/5.2
Gradeability	°	35	35

Undercarriage

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

Track pads		2 x 50	2 x 52
Link pitch	mm	215.9	215.9
Shoe width, triple grouser	mm	600/700/ 800/900	600/700/ 800/900
Shoe width, double grouser	mm	600	600
Bottom rollers		2 x 9	2 x 9
Top rollers		2 x 2	2 x 2

Hydraulic system

The hydraulic system, also known as the “Automatic Sensing Work Mode,” is designed for high-productivity, high-digging capacity, high-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 a single function 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.

		EC380D	EC480D
Main pump, Type 2 x variable displacement axial piston pumps			
Maximum flow	l/min	2 x 300	2 x 358
Pilot pump, Type Gear pump			
Maximum flow	l/min	30	32

Hydraulic motors

		EC380D	EC480D
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	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 cylinders

		EC380D	EC480D
Mono boom		2	2
Bore x Stroke	ø x mm	160 x 1 530	165 x 1 590
Arm		1	1
Bore x Stroke	ø x mm	175 x 1 700	190 x 1 850
Bucket		1	1
Bore x Stroke	ø x mm	145 x 1 285	165 x 1 335
ME Bucket		1	1
Bore x Stroke	ø x mm	160 x 1 250	175 x 1 335

Service refill capacities

Fuel tank	l	620	685
Hydraulic system, total	l	500	525
Hydraulic tank	l	220	270
Engine oil	l	42	42
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

Cab

Integrated air-conditioning and heating system:

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

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

Sound Level

		EC380D	EC480D
Sound level in cab according to ISO 6396			
LpA	dB(A)	71	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	106

SPECIFICATIONS.

VOLVO BUCKETS

Loose soil, re-handling material or abrasive rock; excavators and attachments work hand in hand to move almost any type of material. Volvo's experience together with excavator and attachment technology ensures a reduction in cycle times, increased productivity and lower fuel costs through higher breakout forces and quicker bucket fill times.

The efficiency of any type of excavation depends upon the selection of the right bucket therefore a broad bucket offering available from the same retailer as your excavator means the machine can be easily adjusted to operate in any conditions.

As the technology and experience in design for both Volvo's attachments and excavators stems from the same origin, availing from another service like Volvo's aftermarket support ensures the machine is running harder for longer.



(GP) General purpose bucket

Designed for digging and re-handling soft to medium materials e.g. soils with low wear characteristics. The GP bucket has anti-abrasive side cutters, a hardened lip plate and self-sharpening bucket teeth.

(HD) Heavy-duty bucket

Intended for digging in dense materials such as hard packed clay and gravel. The HD bucket has heavier overall fabrication with a thicker side cutting edge and hardened plating on all critical ground-engaging areas.

(RK) Rock bucket

Together with harder and thicker plating on all critical leading edges the rock bucket provides digging performance in soils with a high degree of rock content and well blasted rock. On the EC700B the option of a D-edge is available, for ease of penetration when rock handling.

(ES) Extreme service bucket

Available for the EC700 and provides additional wear protection for use in high impact or wearing applications. Inner protection and D edge as standard.

(FD) Fixed ditching bucket

A wide face, round profile and drain holes make the FD bucket ideal for ditch cleaning or removal of other soft material. An inner stiffener and optional bolt-on cutting edge bolster performance.

VOLVO TOOTH SYSTEM



Self-Sharpening Tooth System Cuts Through the Toughest Jobs

Volvo perfects the excavator bucket's point of attack with a robust tooth system that delivers performance and long life. Cast and tempered from a high-strength alloy, Volvo teeth resist stress and deliver optimum penetration in hard or abrasive material. An innovative design lessens internal wear between tooth and adapter — and makes it easy to change teeth.

LOCKING DEVICE

Patented vertical locking device. The steel pin with flexible lock retainer tightly secures the tooth to the adapter. Smart design transfers working stresses away from the locking device, saving wear on the steel pin and extending pin life. Self-sharpening Volvo teeth are designed for a small penetration area, which reduces stress and wear at the point of contact.

GPE

Self-sharpening general-purpose tooth with good penetration and long service life.

AMRE

Self-sharpening tooth resists wear in rock and other abrasive materials.

PPE

Pick-point excavator tooth delivers maximum penetration in hard clay or frozen ground.

SNE

Spade nose tooth is designed for finishing work such as leveling, grading, cleaning & backfilling.

TPE

Twin pick point with sharp, dual-point profile is ideal for compact or frozen ground.

Wear Cap & BL Adapter

The wear cap protects the adapter from unnecessary wear.

BL: 1 1/2 bottom leg adapter for welding to both sides of the cutting edge

MAXIMUM PERMITTED BUCKETS

		EC380DL with 7 000 kg counterweight				EC380DNL with 7 000 kg counterweight			
Boom	m	6.2 ME	6.45 HD		6.2 ME	6.45 HD			
Arm	m	2.6	2.6	3.2 HD	3.9	2.6	2.6	3.2 HD	3.9
Max. bucket		liter	liter	liter	liter	liter	liter	liter	liter
GP bucket 1.5 t/m ³		2 775	2 775	2 550	2 300	2 450	2 325	2 125	1 925
GP bucket 1.8 t/m ³		2 450	2 450	2 250	2 050	2 175	2 075	1 900	1 700
HD bucket 1.8 t/m ³		2 325	2 325	2 125	1 925	2 050	1 950	1 800	1 625
HD bucket 2.0 t/m ³		2 175	2 175	2 000	1 800	1 925	1 825	1 675	1 500
		• EC380DL with direct fit bucket				• EC380DNL with direct fit bucket			
GP bucket 1.5 t/m ³		2 600	2 600	2 350	2 125	2 325	2 200	2 025	1 800
GP bucket 1.8 t/m ³		2 300	2 300	2 100	1 875	2 075	1 950	1 800	1 600
HD bucket 1.8 t/m ³		2 175	2 175	1 975	1 775	1 950	1 850	1 700	1 525
HD bucket 2.0 t/m ³		2 025	2 025	1 850	1 675	1 825	1 725	1 575	1 400
		• EC380DL with quick coupler bucket				• EC380DNL with quick coupler bucket			
		EC480DL fixed undercarriage with 9 750kg counterweight							
Boom	m	7.0 GP/HD				6.5 ME			
Arm	m	G3.9	G4.8	H2.55	H3.35	M2.55			
Max. bucket		liter	liter	liter	liter	liter			
GP bucket 1.5 t/m ³		2 750	2 450	3 300	2 950	3 500			
GP bucket 1.8 t/m ³		2 450	2 175	2 925	2 600	3 100			
HD bucket 1.8 t/m ³		2 300	2 050	2 775	2 475	2 925			
HD bucket 2.0 t/m ³		2 150	1 925	2 600	2 300	2 750			
		• EC480DL with direct fit bucket							
GP bucket 1.5 t/m ³		2 575	2 275	3 125	2 750	3 325			
GP bucket 1.8 t/m ³		2 275	2 025	2 775	2 450	2 950			
HD bucket 1.8 t/m ³		2 150	1 900	2 625	2 325	2 775			
HD bucket 2.0 t/m ³		2 000	1 775	2 450	2 150	2 600			
		• EC480DL with S3 quick coupler bucket							
GP bucket 1.5 t/m ³		2 400	2 100	2 950	2 600	3 150			
GP bucket 1.8 t/m ³		2 125	1 875	2 625	2 300	2 800			
HD bucket 1.8 t/m ³		2 025	1 775	2 475	2 175	2 650			
HD bucket 2.0 t/m ³		1 875	1 650	2 300	2 025	2 450			
		• EC480DL with U quick coupler bucket							
		EC480D retractable undercarriage with 9 750kg counterweight							
Boom	m	7.0 GP/HD				6.5 ME			
Arm	m	G3.9	G4.8	H2.55	H3.35	M2.55			
Max. bucket		liter	liter	liter	liter	liter			
GP bucket 1.5 t/m ³		2 975	2 625	3 525	3 150	3 800			
GP bucket 1.8 t/m ³		2 625	2 325	3 125	2 800	3 375			
HD bucket 1.8 t/m ³		2 500	2 200	2 950	2 650	3 175			
HD bucket 2.0 t/m ³		2 325	2 050	2 750	2 475	2 975			
		• EC480D MVW with direct fit bucket							
GP bucket 1.5 t/m ³		2 775	2 450	3 325	2 975	3 625			
GP bucket 1.8 t/m ³		2 475	2 175	2 950	2 625	3 200			
HD bucket 1.8 t/m ³		2 325	2 050	2 800	2 500	3 025			
HD bucket 2.0 t/m ³		2 175	1 900	2 600	2 325	2 825			
		• EC480D MVW with S3 quick coupler bucket							
GP bucket 1.5 t/m ³		2 625	2 275	3 175	2 800	3 450			
GP bucket 1.8 t/m ³		2 325	2 025	2 800	2 475	3 050			
HD bucket 1.8 t/m ³		2 200	1 900	2 650	2 350	2 900			
HD bucket 2.0 t/m ³		2 050	1 775	2 475	2 200	2 700			
		• EC480D MVW with U quick coupler bucket							

Note: 1. Bucket size based on ISO 7451, heaped material with a 1:1 angle of repose.

2. "Max permitted sizes" are for reference only and are not necessarily available from the factory.

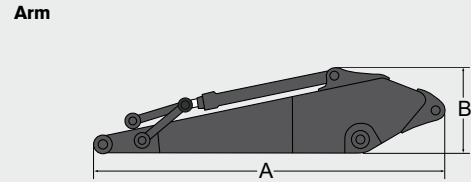
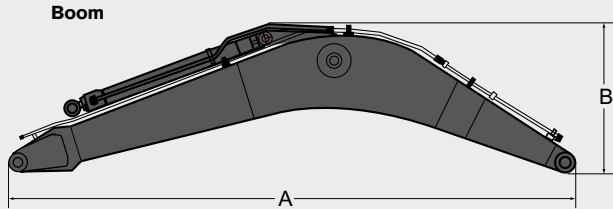
SPECIFICATIONS.

MACHINE WEIGHTS AND GROUND PRESSURE

EC380D							
Description	Shoe width	Operating weight	Ground pressure	Operating weight		Ground pressure	
Triple grouser	600 mm	38 300 kg	68.6 kPa	38 040 kg		68.1 kPa	
	700 mm	38 790 kg	59.8 kPa	38 530 kg		59.8 kPa	
	800 mm	39 220 kg	53.0 kPa	38 960 kg		53.0 kPa	
	900 mm	39 660 kg	48.1 kPa	39 400 kg		47.1 kPa	
Double grouser	600 mm	38 460 kg	69.6 kPa	38 200 kg		68.6 kPa	
EC380D with LC undercarriage, 6.45 m boom, 3.2 m arm, 1 460 kg bucket, 7 000 kg counterweight				EC380D with NLC undercarriage, 6.45 m boom, 3.2 m arm, 1 460 kg bucket, 7 000 kg counterweight			

EC480D with FIXED undercarriage				EC480D with RETRACTABLE undercarriage			
Triple grouser	600 mm	48 600 kg	84.6 kPa	49 700 kg		86.5 kPa	
	700 mm	49 100 kg	73.7 kPa	50 200 kg		74.5 kPa	
	800 mm	49 600 kg	64.6 kPa	50 700 kg		66.6 kPa	
	900 mm	50 200 kg	58.7 kPa	51 200 kg		59.6 kPa	
Double grouser	600 mm	48 700 kg	84.6 kPa	49 800 kg		86.5 kPa	
EC480DL with FIXED undercarriage, 7.0 m boom, 3.35 m arm, 2 020 kg bucket, 9 750 kg counterweight				EC480DL with RETRACTABLE undercarriage, 7.0 m boom, 3.35 m arm, 2 020 kg bucket, 9 750 kg counterweight			

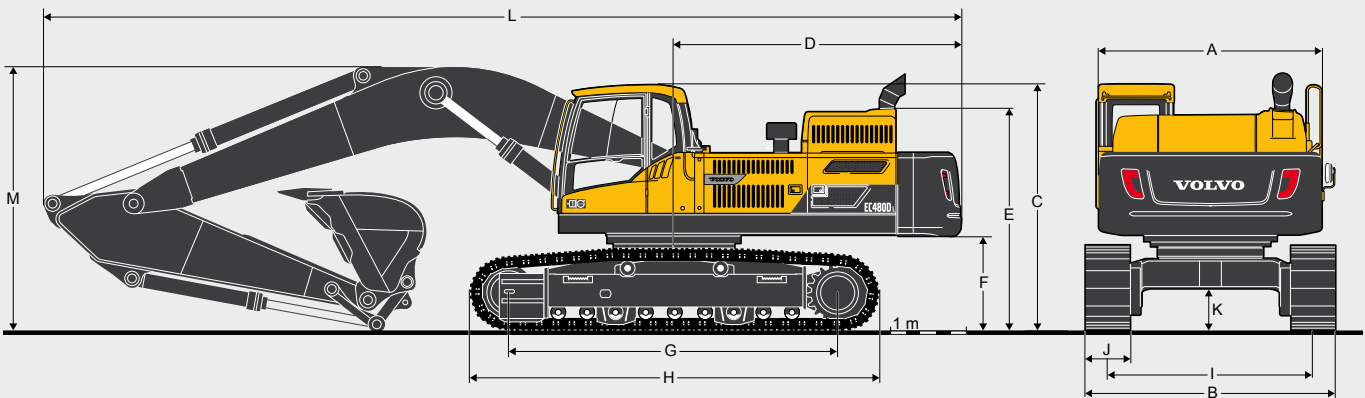
DIMENSIONS



Boom	Unit	EC380D				EC480D				Arm	Unit	EC380D			EC480D		
		mono	mono	mono	mono	Description	2.6	3.2 HD	3.9			2.55	3.35 HD	3.90	4.80		
Boom	m	6.2 ME	6.45 HD	6.5 ME	7.0 HD	Arm	m	2.6	3.2 HD	3.9	2.55	3.35 HD	3.90	4.80			
A	mm	6 460	6 700	6 750	7 250	A	mm	3 780	4 360	5 080	3 770	4 590	5 140	6 100			
B	mm	1 740	1 800	2 000	1 840	B	mm	1 145	1 146	1 140	1 235	1 235	1 240	1 250			
Width	mm	820	820	960	960	Width	mm	560	560	560	600	600	600	600			
Weight	kg	3 353	3 346	4 127	4 176	Weight	kg	2 049	2 180	2 300	2 331	2 579	2 582	2 726			

* Includes arm cylinder, piping and pin

* Includes bucket cylinder, linkage and pin

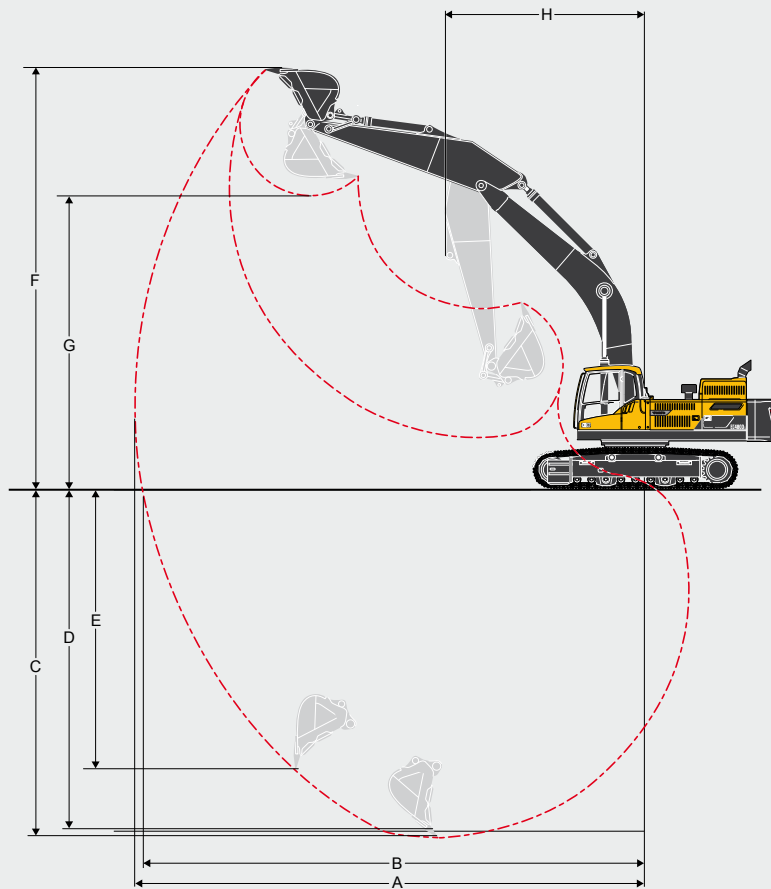


Description	Unit	EC380DL				EC380DNL					
		6.2	6.45	6.2	6.45						
Boom	m	6.2	6.45	6.2	6.45						
Arm	m	2.6	2.6	3.2	3.9						
A. Overall width of upper structure	mm	2 990	2 990	2 990	2 990						
B. Overall width	mm	3 340	3 340	3 340	3 340						
C. Overall height of cab	mm	3 197	3 197	3 197	3 197						
D. Tail swing radius	mm	3 560	3 560	3 560	3 560						
E. Overall height of engine hood	mm	2 860	2 860	2 860	2 860						
F. Counterweight clearance *	mm	1 210	1 210	1 210	1 210						
G. Tumbler length	mm	4 240	4 240	4 240	4 240						
H. Track length	mm	5 180	5 180	5 180	5 180						
I. Track gauge	mm	2 740	2 740	2 740	2 390						
J. Shoe width	mm	600	600	600	600						
K. Min. ground clearance *	mm	500	500	500	500						
L. Overall length	mm	11 080	11 330	11 240	11 290						
M. Overall height of boom	mm	3 700	3 580	3 350	3 590						
Description	Unit	EC480DL fixed undercarriage					EC480DL retractable undercarriage				
		6.5	7.0	7.0	3.9	4.8	6.5	7.0	7.0	3.9	4.8
Boom	m	6.5	7.0	7.0	3.9	4.8	6.5	7.0	7.0	3.9	4.8
Arm	m	2.55	2.55	3.35	3.9	4.8	2.55	2.55	3.35	3.9	4.8
A. Overall width of upper structure	mm	2 990	2 990	2 990	2 990	2 990	2 990	2 990	2 990	2 990	2 990
B. Overall width (extended)	mm	3 440	3 440	3 440	3 440	3 440	3 590	3 590	3 590	3 590	3 590
Overall width (retracted)	mm	-	-	-	-	-	3 090	3 090	3 090	3 090	3 090
C. Overall height of cab	mm	3 257	3 257	3 257	3 257	3 257	3 370	3 370	3 370	3 370	3 370
D. Tail swing radius	mm	3 800	3 800	3 800	3 800	3 800	3 800	3 800	3 800	3 800	3 800
E. Overall height of engine hood	mm	2 910	2 910	2 910	2 910	2 910	3 020	3 020	3 020	3 020	3 020
F. Counterweight clearance *	mm	1 275	1 275	1 275	1 275	1 275	1 385	1 385	1 385	1 385	1 385
G. Tumbler length	mm	4 370	4 370	4 370	4 370	4 370	4 370	4 370	4 370	4 370	4 370
H. Track length	mm	5 370	5 370	5 370	5 370	5 370	5 370	5 370	5 370	5 370	5 370
I. Track gauge (retracted)	mm	2 740	2 740	2 740	2 740	2 740	2 390	2 390	2 390	2 390	2 390
Track gauge (extended)	mm	-	-	-	-	-	2 890	2 890	2 890	2 890	2 890
J. Shoe width	mm	700	700	700	700	700	700	700	700	700	700
K. Min. ground clearance *	mm	550	550	550	550	550	746	746	746	746	746
L. Overall length	mm	11 630	12 130	12 140	12 140	12 010	11 630	12 130	12 140	12 140	12 010
M. Overall height of boom	mm	3 770	3 630	3 650	3 690	4 650	3 800	3 770	3 790	3 830	4 790

* Without shoe grouser

SPECIFICATIONS.

WORKING RANGES



Description		Unit	EC380D			
Boom		m	6.2		6.45	
Arm		m	2.6		3.2	
A. Max. digging reach		mm	10 440	10 550	11 070	11 710
B. Max. digging reach on ground		mm	10 210	10 330	10 860	11 520
C. Max. digging depth		mm	6 740	6 850	7 450	8 150
D. Max. digging depth (2.44 m level)		mm	6 560	6 650	7 270	8 000
E. Max. vertical wall digging depth		mm	5 260	5 430	5 870	6 500
F. Max. cutting height		mm	10 070	10 170	10 340	10 610
G. Max. dumping height		mm	6 810	7 090	7 280	7 560
H. Min. front slew radius		mm	4 120	4 320	4 280	4 300
Digging forces with direct fit bucket						
Bucket radius		mm	1 810	1 623	1 623	1 623
Breakout force - bucket (Normal/Power boost)	SAE J1179	kN	214.5	198	198	198
	SAE J1179	kN	234.5	215.0	215.0	215.0
	ISO 6015	kN	243.4	221.7	221.7	221.7
	ISO 6015	kN	265.4	242.7	242.7	242.7
Tearout force - dipper arm (Normal/Power boost)	SAE J1179	kN	187.7	195.9	161.9	141.3
	SAE J1179	kN	205.7	212.9	176.9	154.3
	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

WORKING RANGES

Description	Unit	EC480D *					EC480D, mechanically retractable width **				
		6.5ME		7.0			6.5ME		7.0		
Boom	m										
Arm	m	2.55	2.55	3.35	3.9	4.8	2.55	2.55	3.35	3.9	4.8
A. Max. digging reach	mm	10 930	11 340	12 040	12 530	13 260	10 930	11 340	12 040	12 530	13 260
B. Max. digging reach on ground	mm	10 680	11 110	11 810	12 320	13 060	10 660	11 090	11 790	12 300	13 040
C. Max. digging depth	mm	6 580	6 920	7 720	8 270	9 170	6 470	6 810	7 610	8 160	9 060
D. Max. digging depth (2.44 m level)	mm	6 410	6 750	7 570	8 140	9 050	6 300	6 640	7 460	8 030	8 940
E. Max. vertical wall digging depth	mm	6 100	6 270	7 110	7 570	8 020	5 880	6 160	7 000	7 460	7 910
F. Max. cutting height	mm	10 600	10 860	11 010	11 190	11 130	10 710	10 970	11 130	11 300	11 240
G. Max. dumping height	mm	6 970	7 420	7 640	7 820	7 850	7 080	7 530	7 750	7 930	7 960
H. Min. front slew radius	mm	4 780	5 170	5 090	5 050	5 100	4 780	5 170	5 090	5 050	5 100

Digging forces with direct fit bucket

Bucket radius	mm	1 923	1 810	1 810	1 810	1 810	1 923	1 810	1 810	1 810	1 810
Breakout force - bucket (Normal/Power boost)	SAE J1179	kN	252.9	229.6	229.6	229.6	229.6	253	230	230	230
	SAE J1179	kN	285.1	260.9	260.9	260.9	260.9	285	261	261	261
	ISO 6015	kN	275.3	251.2	251.2	251.2	251.2	275	251	251	251
	ISO 6015	kN	310.6	284.4	284.4	284.4	284.4	311	284	284	284
Tearout force - bucket (Normal/Power boost)	SAE J1179	kN	224.5	231.6	196.1	175.9	159.7	225	232	196	176
	SAE J1179	kN	231.6	238.6	201.2	179.0	162.8	232	239	201	179
	ISO 6015	kN	244.1	252.2	214.9	191.6	174.4	244	252	215	192
	ISO 6015	kN	253.1	260.2	219.9	195.6	177.5	253	260	220	196
Rotation angle, bucket	°	169	183	183	183	183	169	183	183	183	183

* FIXED UNDERCARRIAGE, Machine with pin-on bucket

** RETRACTABLE UNDERCARRIAGE, Machine with pin-on bucket

Bucket spec. for Working Range

- For ME Boom : VGP60 2600L VTS (Bucket tip radius : 1948.40mm)

- For STD Boom : KGP46 2060L KTS (Bucket tip radius : 1847.01mm)

EXPLANATION OF LIFTING CAPACITY TABLES

Example: • EC380DNLC

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	Along		Across		Along		Across		Along		Across		Max. mm
		undercarriage 3.0 m	undercarriage 4.5 m	undercarriage 6.0 m	undercarriage 7.5 m	undercarriage 9.0 m	undercarriage Max. reach							
Boom: 6.2 m + Arm: 2.6 m + Shoe: 600 mm + CWT: 7 050 kg	7.5 m kg	-	-	-	-	*10 730	9 890	-	-	-	-	*10 940	8 140	6 717
	6.0 m kg	-	-	-	-	*11 270	9 690	*10 800	6 730	-	-	10 530	6 430	7 694
	4.5 m kg	-	-	*15 950	14 330	*12 740	9 270	10 850	6 580	-	-	9 200	5 580	8 288
	3.0 m kg	-	-	*19 950	13 190	*14 580	8 780	10 590	6 340	-	-	8 570	5 160	8 579
	1.5 m kg	-	-	*22 520	12 470	14 570	8 370	10 340	6 130	-	-	8 420	5 030	8 600
	0 m kg	-	-	*23 070	12 230	14 290	8 130	10 180	5 990	-	-	8 720	5 170	8 351
	-1.5 m kg	*17 930	*17 930	*22 250	12 240	14 220	8 080	10 170	5 970	-	-	9 610	5 680	7 807
	-3.0 m kg	*26 840	24 630	*20 070	12 440	14 370	8 200	-	-	-	-	11 660	6 830	6 898
-4.5 m kg	-	-	*15 500	12 900	-	-	-	-	-	-	*12 300	9 850	5 439	

- 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.

SPECIFICATIONS.

LIFTING CAPACITY EC480DL

		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 :	6.5m	7.5 m	kg	-	-	-	-	-	-	-	-	-	-	-	*12 430	11 410	7 249		
		6.0 m	kg	-	-	-	-	-	-	*13 390	*13 390	*12 350	10 750	-	-	*12 280	9 400	8 143	
	Arm :	2.55m	4.5 m	kg	-	-	-	-	*19 980	*19 980	*15 270	14 580	*13 110	10 490	-	-	*12 340	8 380	8 686
			3.0 m	kg	-	-	-	-	*24 400	20 930	*17 390	13 930	*14 160	10 170	-	-	12 210	7 880	8 944
	Shoe :	600mm	1.5 m	kg	-	-	-	-	*17 490	*17 490	*19 000	13 450	*15 060	9 900	-	-	12 090	7 770	8 942
			0 m	kg	-	-	-	-	*25 680	20 090	*19 670	13 200	15 490	9 740	-	-	12 550	8 030	8 680
	CWT :	9 750kg	-1.5 m	kg	-	-	*18 840	*18 840	*25 280	20 170	*19 250	13 160	*15 070	9 720	-	-	*13 470	8 770	8 132
			-3.0 m	kg	-	-	*29 180	*29 180	*22 630	20 440	*17 440	13 320	-	-	-	-	*13 600	10 410	7 231
-4.5 m			kg	-	-	-	-	*17 530	*17 530	-	-	-	-	-	-	*12 950	*12 950	5 813	
Boom :	7.0m	7.5 m	kg	-	-	-	-	-	-	-	*11 320	10 850	-	-	*11 440	9 960	7 886		
		6.0 m	kg	-	-	-	-	-	-	*13 060	*13 060	*11 700	10 690	-	-	*11 360	8 410	8 714	
	Arm :	2.55m	4.5 m	kg	-	-	-	-	-	-	*15 150	14 310	*12 670	10 360	*11 500	7 890	*11 450	7 580	9 223
			3.0 m	kg	-	-	-	-	-	-	*17 330	13 620	*13 820	10 010	*11 980	7 730	11 130	7 170	9 466
	Shoe :	600mm	1.5 m	kg	-	-	-	-	-	-	*18 870	13 150	*14 770	9 720	11 850	7 580	11 020	7 070	9 464
			0 m	kg	-	-	-	-	-	-	*19 450	12 940	*15 270	9 550	11 760	7 500	11 380	7 280	9 217
	CWT :	9 750kg	-1.5 m	kg	-	-	-	-	*24 720	19 920	*19 090	12 930	*15 100	9 520	-	-	12 370	7 870	8 703
			-3.0 m	kg	-	-	*27 580	*27 580	*22 570	20 160	*17 700	13 070	*13 770	9 670	-	-	*12 720	9 120	7 870
-4.5 m			kg	-	-	-	-	*18 710	*18 710	*14 430	13 460	-	-	-	-	*12 460	11 890	6 594	
Boom :	7.0m	7.5 m	kg	-	-	-	-	-	-	-	*10 010	*10 010	-	-	*9 800	8 680	8 709		
		6.0 m	kg	-	-	-	-	-	-	-	*10 630	*10 630	*10 190	8 180	*9 600	7 510	9 463		
	Arm :	3.35m	4.5 m	kg	-	-	-	-	*17 950	*17 950	*13 760	*13 760	*11 740	10 550	*10 670	8 020	*9 680	6 850	9 933
			3.0 m	kg	-	-	-	-	*22 870	20 940	*16 130	13 910	*13 040	10 150	*11 350	7 810	*10 010	6 510	10 159
	Shoe :	600mm	1.5 m	kg	-	-	-	-	*15 840	*15 840	*18 080	13 320	*14 210	9 810	11 890	7 610	9 960	6 410	10 158
			0 m	kg	-	-	-	-	*19 420	*19 420	*19 170	12 980	*15 010	9 570	11 730	7 470	10 220	6 550	9 928
	CWT :	9 750kg	-1.5 m	kg	-	-	*14 040	*14 040	*25 880	19 700	*19 340	12 860	15 190	9 460	11 680	7 430	10 930	6 980	9 454
			-3.0 m	kg	-	-	*23 900	*23 900	*24 290	19 880	*18 570	12 910	*14 630	9 500	-	-	*11 980	7 860	8 694
-4.5 m			kg	-	-	*28 410	*28 410	*21 330	20 240	*16 470	13 150	*12 380	9 750	-	-	*12 190	9 660	7 562	
Boom :	7.0m	7.5 m	kg	-	-	-	-	-	-	-	-	-	*9 250	8 300	*7 930	7 850	9 288		
		6.0 m	kg	-	-	-	-	-	-	-	*9 780	*9 780	*9 410	8 220	*7 770	6 870	9 999		
	Arm :	3.9m	4.5 m	kg	-	-	-	-	-	-	*12 610	*12 610	*10 930	10 600	*9 990	8 020	*7 840	6 300	10 444
			3.0 m	kg	-	-	-	-	*20 840	*20 840	*15 060	14 000	*12 300	10 160	*10 760	7 770	*8 090	5 990	10 659
	Shoe :	600mm	1.5 m	kg	-	-	-	-	*21 560	20 030	*17 210	13 300	*13 600	9 750	*11 530	7 540	*8 570	5 890	10 657
			0 m	kg	-	-	-	-	*21 410	19 490	*18 610	12 860	*14 560	9 460	11 630	7 360	*9 320	6 000	10 439
	CWT :	9 750kg	-1.5 m	kg	*9 890	*9 890	*14 060	*14 060	*25 990	19 360	*19 130	12 660	*15 010	9 300	11 530	7 270	9 980	6 340	9 989
			-3.0 m	kg	*16 520	*16 520	*21 670	*21 670	*24 880	19 470	*18 740	12 650	*14 760	9 280	11 570	7 310	11 110	7 040	9 275
-4.5 m			kg	-	-	*31 060	*31 060	*22 520	19 780	*17 220	12 830	*13 380	9 440	-	-	*11 590	8 410	8 224	
Boom :	7.0m	7.5 m	kg	-	-	-	-	-	-	-	-	-	*7 860	*7 860	*7 290	6 870	10 111		
		6.0 m	kg	-	-	-	-	-	-	-	-	-	-	*8 220	*8 220	*7 220	6 090	10 766	
	Arm :	4.8m	4.5 m	kg	-	-	-	-	-	-	-	*9 570	*9 570	*8 910	8 070	*7 320	5 610	11 181	
			3.0 m	kg	-	-	-	-	*17 570	*17 570	*13 220	*13 220	*11 040	10 240	*9 780	7 780	*7 570	5 330	11 382
	Shoe :	600mm	1.5 m	kg	-	-	-	-	*21 990	20 380	*15 670	13 410	*12 510	9 760	*10 680	7 480	*8 020	5 230	11 380
			0 m	kg	-	-	-	-	*24 650	19 410	*17 530	12 790	*13 720	9 370	*11 460	7 240	8 380	5 290	11 176
	CWT :	9 750kg	-1.5 m	kg	*9 580	*9 580	*14 230	*14 230	*25 660	19 010	*18 570	12 440	*14 500	9 110	11 340	7 080	8 800	5 530	10 758
			-3.0 m	kg	*14 660	*14 660	*19 870	*19 870	*25 380	18 950	*18 750	12 320	*14 700	9 010	11 280	7 030	9 620	6 040	10 098
-4.5 m			kg	*20 520	*20 520	*27 230	*27 230	*23 910	19 140	*17 970	12 390	*14 090	9 060	*11 110	7 120	*10 820	6 980	9 145	
		-6.0 m	kg	-	-	*29 270	*29 270	*20 870	19 580	*15 820	12 670	*12 010	9 320	-	-	*11 290	8 890	7 787	

LIFTING CAPACITY EC480DL

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		mm						
		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							
Boom :	6.5m	7.5 m	kg	-	-	-	-	-	-	-	-	-	-	-	*12 430	11 500	7 249					
		6.0 m	kg	-	-	-	-	-	-	*13 390	*13 390	*12 350	10 840	-	-	*12 280	9 480	8 143				
		4.5 m	kg	-	-	-	-	*19 980	*19 980	*15 270	14 700	*13 110	10 580	-	-	*12 340	8 450	8 686				
		Arm :	2.55m	3.0 m	kg	-	-	-	-	*24 400	21 120	*17 390	14 060	*14 160	10 270	-	-	12 330	7 960	8 944		
				1.5 m	kg	-	-	-	-	*17 490	*17 490	*19 000	13 570	*15 060	9 990	-	-	12 210	7 840	8 942		
		Shoe :	700mm	0 m	kg	-	-	-	-	*25 680	20 270	*19 670	13 320	*15 490	9 830	-	-	12 680	8 100	8 680		
				CWT :	9 750kg	-1.5 m	kg	-	-	*18 840	*18 840	*25 280	20 350	*19 250	13 280	*15 070	9 810	-	-	*13 470	8 860	8 132
						-3.0 m	kg	-	-	*29 180	*29 180	*22 630	20 620	*17 440	13 450	-	-	-	-	*13 600	10 500	7 231
		-4.5 m	kg	-	-	-	-	*17 530	*17 530	-	-	-	-	-	-	*12 950	*12 950	5 813				
Boom :	7.0m	7.5 m	kg	-	-	-	-	-	-	-	*11 320	10 940	-	-	*11 440	10 050	7 886					
		6.0 m	kg	-	-	-	-	-	-	*13 060	*13 060	*11 700	10 780	-	-	*11 360	8 490	8 714				
		4.5 m	kg	-	-	-	-	-	-	*15 150	14 430	*12 670	10 450	*11 500	7 960	*11 450	7 650	9 223				
		Arm :	2.55m	3.0 m	kg	-	-	-	-	-	-	*17 330	13 740	*13 820	10 100	*11 980	7 800	11 240	7 240	9 466		
				1.5 m	kg	-	-	-	-	-	-	*18 870	13 280	*14 770	9 810	11 970	7 660	11 130	7 140	9 464		
		Shoe :	700mm	0 m	kg	-	-	-	-	-	-	*19 450	13 070	*15 270	9 650	11 880	7 580	11 500	7 350	9 217		
				CWT :	9 750kg	-1.5 m	kg	-	-	-	-	*24 720	20 100	*19 090	13 050	*15 100	9 620	-	-	12 490	7 950	8 703
						-3.0 m	kg	-	-	*27 580	*27 580	*22 570	20 340	*17 700	13 200	*13 770	9 760	-	-	*12 720	9 200	7 870
		-4.5 m	kg	-	-	-	-	*18 710	*18 710	*14 430	13 580	-	-	-	-	*12 460	12 000	6 594				
Boom :	7.0m	7.5 m	kg	-	-	-	-	-	-	-	*10 010	*10 010	-	-	*9 800	8 760	8 709					
		6.0 m	kg	-	-	-	-	-	-	-	*10 630	*10 630	*10 190	8 250	*9 600	7 580	9 463					
		4.5 m	kg	-	-	-	-	*17 950	*17 950	*13 760	*13 760	*11 740	10 640	*10 670	8 090	*9 680	6 920	9 933				
		Arm :	3.35m	3.0 m	kg	-	-	-	-	*22 870	21 120	*16 130	14 030	*13 040	10 240	*11 350	7 880	*10 010	6 570	10 159		
				1.5 m	kg	-	-	-	-	*15 840	*15 840	*18 080	13 440	*14 210	9 900	12 010	7 690	10 060	6 470	10 158		
		Shoe :	700mm	0 m	kg	-	-	-	-	*19 420	*19 420	*19 170	13 100	*15 010	9 660	11 860	7 550	10 320	6 620	9 928		
				CWT :	9 750kg	-1.5 m	kg	-	-	*14 040	*14 040	*25 880	19 890	*19 340	12 980	*15 220	9 550	11 810	7 500	11 040	7 050	9 454
						-3.0 m	kg	-	-	*23 900	*23 900	*24 290	20 060	*18 570	13 040	*14 630	9 590	-	-	*11 980	7 940	8 694
		-4.5 m	kg	-	-	*28 410	*28 410	*21 330	20 420	*16 470	13 270	*12 380	9 840	-	-	*12 190	9 750	7 562				
Boom :	7.0m	7.5 m	kg	-	-	-	-	-	-	-	-	-	-	*9 250	8 380	*7 930	7 920	9 288				
		6.0 m	kg	-	-	-	-	-	-	-	-	*9 780	*9 780	*9 410	8 290	*7 770	6 930	9 999				
		4.5 m	kg	-	-	-	-	-	-	*12 610	*12 610	*10 930	10 690	*9 990	8 090	*7 840	6 360	10 444				
		Arm :	3.9m	3.0 m	kg	-	-	-	-	*20 840	*20 840	*15 060	14 120	*12 300	10 250	*10 760	7 850	*8 090	6 050	10 659		
				1.5 m	kg	-	-	-	-	*21 560	20 220	*17 210	13 430	*13 600	9 850	*11 530	7 610	*8 570	5 950	10 657		
		Shoe :	700mm	0 m	kg	-	-	-	-	*21 410	19 680	*18 610	12 980	*14 560	9 550	11 750	7 440	*9 320	6 060	10 439		
				CWT :	9 750kg	-1.5 m	kg	*9 890	*9 890	*14 060	*14 060	*25 990	19 550	*19 130	12 780	*15 010	9 390	11 650	7 340	10 080	6 410	9 989
						-3.0 m	kg	*16 520	*16 520	*21 670	*21 670	*24 880	19 650	*18 740	12 770	*14 760	9 380	11 690	7 380	11 230	7 110	9 275
		-4.5 m	kg	-	-	*31 060	*31 060	*22 520	19 960	*17 220	12 950	*13 380	9 530	-	-	*11 590	8 490	8 224				
		-6.0 m	kg	-	-	-	-	*18 130	*18 130	*13 640	13 390	-	-	-	-	*11 580	*11 580	6 678				
Boom :	7.0m	7.5 m	kg	-	-	-	-	-	-	-	-	-	-	*7 860	*7 860	*7 290	6 930	10 111				
		6.0 m	kg	-	-	-	-	-	-	-	-	-	-	-	*8 220	*8 220	*7 220	6 150	10 766			
		4.5 m	kg	-	-	-	-	-	-	-	-	*9 570	*9 570	*8 910	8 140	*7 320	5 660	11 181				
		Arm :	4.8m	3.0 m	kg	-	-	-	-	*17 570	*17 570	*13 220	*13 220	*11 040	10 330	*9 780	7 850	*7 570	5 390	11 382		
				1.5 m	kg	-	-	-	-	*21 990	20 560	*15 670	13 540	*12 510	9 850	*10 680	7 560	*8 020	5 290	11 380		
		Shoe :	700mm	0 m	kg	-	-	-	-	*24 650	19 600	*17 530	12 920	*13 720	9 460	*11 460	7 310	8 470	5 350	11 176		
				CWT :	9 750kg	-1.5 m	kg	*9 580	*9 580	*14 230	*14 230	*25 660	19 190	*18 570	12 560	*14 500	9 200	11 470	7 150	8 890	5 590	10 758
						-3.0 m	kg	*14 660	*14 660	*19 870	*19 870	*25 380	19 130	*18 750	12 440	*14 700	9 100	11 400	7 100	9 720	6 100	10 098
		-4.5 m	kg	*20 520	*20 520	*27 230	*27 230	*23 910	19 320	*17 970	12 510	*14 090	9 150	*11 110	7 190	*10 820	7 050	9 145				
		-6.0 m	kg	-	-	*29 270	*29 270	*20 870	19 760	*15 820	12 790	*12 010	9 420	-	-	*11 290	8 980	7 787				

SPECIFICATIONS.

LIFTING CAPACITY EC480D mechanically retractable width

		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 : Arm : Shoe : CWT :	6.5m 2.55m 600mm 9 750kg	7.5 m	kg	-	-	-	-	-	-	-	-	-	-	-	*12 430	12 130	7 249	
		6.0 m	kg	-	-	-	-	-	-	*13 390	*13 390	*12 350	11 440	-	-	*12 280	10 000	8 143
		4.5 m	kg	-	-	-	-	*19 980	*19 980	*15 270	*15 270	*13 110	11 180	-	-	*12 340	8 920	8 686
		3.0 m	kg	-	-	-	-	*24 400	22 580	*17 390	14 910	*14 160	10 850	-	-	12 380	8 410	8 944
		1.5 m	kg	-	-	-	-	*17 490	*17 490	*19 000	14 410	*15 060	10 580	-	-	12 260	8 290	8 942
		0 m	kg	-	-	-	-	*25 680	21 720	*19 670	14 160	*15 490	10 410	-	-	12 730	8 570	8 680
		-1.5 m	kg	-	-	*18 840	*18 840	*25 280	21 800	*19 250	14 120	*15 070	10 400	-	-	*13 470	9 370	8 132
		-3.0 m	kg	-	-	*29 180	*29 180	*22 630	22 080	*17 440	14 290	-	-	-	-	*13 600	11 120	7 231
-4.5 m	kg	-	-	-	-	*17 530	*17 530	-	-	-	-	-	-	*12 950	*12 950	5 813		
Boom : Arm : Shoe : CWT :	7.0m 2.55m 600mm 9 750kg	7.5 m	kg	-	-	-	-	-	-	-	*11 320	*11 320	-	-	*11 440	10 600	7 886	
		6.0 m	kg	-	-	-	-	-	-	*13 060	*13 060	*11 700	11 370	-	-	*11 360	8 960	8 714
		4.5 m	kg	-	-	-	-	-	-	*15 150	*15 150	*12 670	11 050	*11 500	8 410	*11 450	8 090	9 223
		3.0 m	kg	-	-	-	-	-	-	*17 330	14 590	*13 820	10 690	*11 980	8 250	11 290	7 660	9 466
		1.5 m	kg	-	-	-	-	-	-	*18 870	14 120	*14 770	10 400	12 020	8 100	11 180	7 560	9 464
		0 m	kg	-	-	-	-	-	-	*19 450	13 900	*15 270	10 230	11 930	8 020	11 550	7 780	9 217
		-1.5 m	kg	-	-	-	-	*24 720	21 540	*19 090	13 880	*15 100	10 200	-	-	*12 530	8 420	8 703
		-3.0 m	kg	-	-	*27 580	*27 580	*22 570	21 790	*17 700	14 040	*13 770	10 340	-	-	*12 720	9 750	7 870
-4.5 m	kg	-	-	-	-	*18 710	*18 710	*14 430	14 430	-	-	-	-	*12 460	*12 460	6 594		
Boom : Arm : Shoe : CWT :	7.0m 3.35m 600mm 9 750kg	7.5 m	kg	-	-	-	-	-	-	-	*10 010	*10 010	-	-	*9 800	9 230	8 709	
		6.0 m	kg	-	-	-	-	-	-	-	*10 630	*10 630	*10 190	8 700	*9 600	8 000	9 463	
		4.5 m	kg	-	-	-	-	*17 950	*17 950	*13 760	*13 760	*11 740	11 230	*10 670	8 540	*9 680	7 310	9 933
		3.0 m	kg	-	-	-	-	*22 870	22 590	*16 130	14 880	*13 040	10 830	*11 350	8 330	*10 010	6 950	10 159
		1.5 m	kg	-	-	-	-	*15 840	*15 840	*18 080	14 290	*14 210	10 480	*12 010	8 130	10 100	6 850	10 158
		0 m	kg	-	-	-	-	*19 420	*19 420	*19 170	13 940	*15 010	10 240	11 900	7 990	10 370	7 000	9 928
		-1.5 m	kg	-	-	*14 040	*14 040	*25 880	21 320	*19 340	13 820	*15 220	10 130	11 860	7 950	11 090	7 460	9 454
		-3.0 m	kg	-	-	*23 900	*23 900	*24 290	21 500	*18 570	13 870	*14 630	10 170	-	-	*11 980	8 410	8 694
-4.5 m	kg	-	-	*28 410	*28 410	*21 330	*21 330	*16 470	14 120	*12 380	10 430	-	-	*12 190	10 320	7 562		
Boom : Arm : Shoe : CWT :	7.0m 3.9m 600mm 9 750kg	7.5 m	kg	-	-	-	-	-	-	-	-	-	*9 250	8 830	*7 930	*7 930	9 288	
		6.0 m	kg	-	-	-	-	-	-	-	*9 780	*9 780	*9 410	8 740	*7 770	7 320	9 999	
		4.5 m	kg	-	-	-	-	-	-	*12 610	*12 610	*10 930	*10 930	*9 990	8 540	*7 840	6 720	10 444
		3.0 m	kg	-	-	-	-	*20 840	*20 840	*15 060	14 980	*12 300	10 840	*10 760	8 300	*8 090	6 400	10 659
		1.5 m	kg	-	-	-	-	*21 560	*21 560	*17 210	14 270	*13 600	10 430	*11 530	8 060	*8 570	6 310	10 657
		0 m	kg	-	-	-	-	*21 410	21 110	*18 610	13 820	*14 560	10 130	11 800	7 880	*9 320	6 420	10 439
		-1.5 m	kg	*9 890	*9 890	*14 060	*14 060	*25 990	20 980	*19 130	13 610	*15 010	9 970	11 700	7 790	10 130	6 790	9 989
		-3.0 m	kg	*16 520	*16 520	*21 670	*21 670	*24 880	21 090	*18 740	13 610	*14 760	9 960	11 740	7 820	*11 250	7 540	9 275
-4.5 m	kg	-	-	*31 060	*31 060	*22 520	21 410	*17 220	13 790	*13 380	10 120	-	-	*11 590	9 000	8 224		
-6.0 m	kg	-	-	-	-	*18 130	*18 130	*13 640	*13 640	-	-	-	-	*11 580	*11 580	6 678		
Boom : Arm : Shoe : CWT :	7.0m 4.8m 600mm 9 750kg	7.5 m	kg	-	-	-	-	-	-	-	-	-	*7 860	*7 860	*7 290	*7 290	10 111	
		6.0 m	kg	-	-	-	-	-	-	-	-	-	-	*8 220	*8 220	*7 220	6 500	10 766
		4.5 m	kg	-	-	-	-	-	-	-	-	*9 570	*9 570	*8 910	8 600	*7 320	6 000	11 181
		3.0 m	kg	-	-	-	-	*17 570	*17 570	*13 220	*13 220	*11 040	10 930	*9 780	8 300	*7 570	5 710	11 382
		1.5 m	kg	-	-	-	-	*21 990	*21 990	*15 670	14 390	*12 510	10 440	*10 680	8 010	*8 020	5 610	11 380
		0 m	kg	-	-	-	-	*24 650	21 040	*17 530	13 760	*13 720	10 040	*11 460	7 760	8 510	5 680	11 176
		-1.5 m	kg	*9 580	*9 580	*14 230	*14 230	*25 660	20 620	*18 570	13 400	*14 500	9 790	11 510	7 600	8 930	5 940	10 758
		-3.0 m	kg	*14 660	*14 660	*19 870	*19 870	*25 380	20 560	*18 750	13 270	*14 700	9 680	11 450	7 540	9 770	6 480	10 098
-4.5 m	kg	*20 520	*20 520	*27 230	*27 230	*23 910	20 760	*17 970	13 350	*14 090	9 730	*11 110	7 640	*10 820	7 490	9 145		
-6.0 m	kg	-	-	*29 270	*29 270	*20 870	*20 870	*15 820	13 630	*12 010	10 000	-	-	*11 290	9 530	7 787		

LIFTING CAPACITY EC480D mechanically retractable width

		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 :	6.5m	7.5 m	kg	-	-	-	-	-	-	-	-	-	-	-	*12 430	12 280	7 249		
		6.0 m	kg	-	-	-	-	-	-	*13 390	*13 390	*12 350	11 570	-	-	*12 280	10 130	8 143	
	Arm :	2.55m	4.5 m	kg	-	-	-	-	*19 980	*19 980	*15 270	*15 270	*13 110	11 310	-	-	*12 340	9 040	8 686
			3.0 m	kg	-	-	-	-	*24 400	22 860	*17 390	15 090	*14 160	10 990	-	-	*12 540	8 520	8 944
	Shoe :	700mm	1.5 m	kg	-	-	-	-	*17 490	*17 490	*19 000	14 600	*15 060	10 710	-	-	12 430	8 400	8 942
			0 m	kg	-	-	-	-	*25 680	21 990	*19 670	14 340	*15 490	10 550	-	-	12 910	8 690	8 680
	CWT :	9 750kg	-1.5 m	kg	-	-	*18 840	*18 840	*25 280	22 080	*19 250	14 300	*15 070	10 530	-	-	*13 470	9 500	8 132
			-3.0 m	kg	-	-	*29 180	*29 180	*22 630	22 350	*17 440	14 470	-	-	-	-	*13 600	11 270	7 231
-4.5 m			kg	-	-	-	-	*17 530	*17 530	-	-	-	-	-	-	*12 950	*12 950	5 813	
Boom :	7.0m	7.5 m	kg	-	-	-	-	-	-	-	*11 320	*11 320	-	-	*11 440	10 730	7 886		
		6.0 m	kg	-	-	-	-	-	-	*13 060	*13 060	*11 700	11 510	-	-	*11 360	9 070	8 714	
	Arm :	2.55m	4.5 m	kg	-	-	-	-	-	*15 150	*15 150	*12 670	11 180	*11 500	8 520	*11 450	8 190	9 223	
			3.0 m	kg	-	-	-	-	-	*17 330	14 780	*13 820	10 830	*11 980	8 360	11 450	7 760	9 466	
	Shoe :	700mm	1.5 m	kg	-	-	-	-	-	*18 870	14 300	*14 770	10 540	12 190	8 210	11 340	7 660	9 464	
			0 m	kg	-	-	-	-	-	*19 450	14 090	*15 270	10 370	12 100	8 130	11 720	7 890	9 217	
	CWT :	9 750kg	-1.5 m	kg	-	-	-	-	*24 720	21 820	*19 090	14 070	*15 100	10 330	-	-	*12 530	8 530	8 703
			-3.0 m	kg	-	-	*27 580	*27 580	*22 570	22 070	*17 700	14 220	*13 770	10 480	-	-	*12 720	9 880	7 870
-4.5 m			kg	-	-	-	-	*18 710	*18 710	*14 430	*14 430	-	-	-	-	*12 460	*12 460	6 594	
Boom :	7.0m	7.5 m	kg	-	-	-	-	-	-	-	*10 010	*10 010	-	-	*9 800	9 340	8 709		
		6.0 m	kg	-	-	-	-	-	-	-	*10 630	*10 630	*10 190	8 810	*9 600	8 100	9 463		
	Arm :	3.35m	4.5 m	kg	-	-	-	-	*17 950	*17 950	*13 760	*13 760	*11 740	11 370	*10 670	8 650	*9 680	7 400	9 933
			3.0 m	kg	-	-	-	-	*22 870	22 870	*16 130	15 070	*13 040	10 970	*11 350	8 440	*10 010	7 040	10 159
	Shoe :	700mm	1.5 m	kg	-	-	-	-	*15 840	*15 840	*18 080	14 470	*14 210	10 620	*12 010	8 240	10 250	6 940	10 158
			0 m	kg	-	-	-	-	*19 420	*19 420	*19 170	14 120	*15 010	10 380	12 080	8 100	10 520	7 100	9 928
	CWT :	9 750kg	-1.5 m	kg	-	-	*14 040	*14 040	*25 880	21 600	*19 340	14 000	*15 220	10 270	12 030	8 060	11 250	7 570	9 454
			-3.0 m	kg	-	-	*23 900	*23 900	*24 290	21 780	*18 570	14 060	*14 630	10 310	-	-	*11 980	8 520	8 694
-4.5 m			kg	-	-	*28 410	*28 410	*21 330	*21 330	*16 470	14 300	*12 380	10 570	-	-	*12 190	10 460	7 562	
Boom :	7.0m	7.5 m	kg	-	-	-	-	-	-	-	-	*9 250	8 940	*7 930	*7 930	9 288			
		6.0 m	kg	-	-	-	-	-	-	-	*9 780	*9 780	*9 410	8 850	*7 770	7 420	9 999		
	Arm :	3.9m	4.5 m	kg	-	-	-	-	-	*12 610	*12 610	*10 930	*10 930	*9 990	8 650	*7 840	6 820	10 444	
			3.0 m	kg	-	-	-	-	*20 840	*20 840	*15 060	*15 060	*12 300	10 980	*10 760	8 410	*8 090	6 490	10 659
	Shoe :	700mm	1.5 m	kg	-	-	-	-	*21 560	*21 560	*17 210	14 460	*13 600	10 570	*11 530	8 170	*8 570	6 390	10 657
			0 m	kg	-	-	-	-	*21 410	21 390	*18 610	14 000	*14 560	10 270	11 970	7 990	*9 320	6 510	10 439
	CWT :	9 750kg	-1.5 m	kg	*9 890	*9 890	*14 060	*14 060	*25 990	21 260	*19 130	13 800	*15 010	10 110	11 870	7 900	10 280	6 890	9 989
			-3.0 m	kg	*16 520	*16 520	*21 670	*21 670	*24 880	21 370	*18 740	13 790	*14 760	10 090	*11 800	7 930	*11 250	7 650	9 275
-4.5 m			kg	-	-	*31 060	*31 060	*22 520	21 680	*17 220	13 970	*13 380	10 250	-	-	*11 590	9 120	8 224	
		-6.0 m	kg	-	-	-	-	*18 130	*18 130	*13 640	*13 640	-	-	-	*11 580	*11 580	6 678		
Boom :	7.0m	7.5 m	kg	-	-	-	-	-	-	-	-	*7 860	*7 860	*7 290	*7 290	10 111			
		6.0 m	kg	-	-	-	-	-	-	-	-	-	*8 220	*8 220	*7 220	6 590	10 766		
	Arm :	4.8m	4.5 m	kg	-	-	-	-	-	-	-	*9 570	*9 570	*8 910	8 710	*7 320	6 080	11 181	
			3.0 m	kg	-	-	-	-	*17 570	*17 570	*13 220	*13 220	*11 040	*11 040	*9 780	8 410	*7 570	5 800	11 382
	Shoe :	700mm	1.5 m	kg	-	-	-	-	*21 990	*21 990	*15 670	14 570	*12 510	10 580	*10 680	8 120	*8 020	5 690	11 380
			0 m	kg	-	-	-	-	*24 650	21 310	*17 530	13 940	*13 720	10 180	*11 460	7 870	8 640	5 760	11 176
	CWT :	9 750kg	-1.5 m	kg	*9 580	*9 580	*14 230	*14 230	*25 660	20 900	*18 570	13 580	*14 500	9 920	11 680	7 710	9 070	6 030	10 758
			-3.0 m	kg	*14 660	*14 660	*19 870	*19 870	*25 380	20 840	*18 750	13 460	*14 700	9 820	11 620	7 650	9 910	6 580	10 098
-4.5 m			kg	*20 520	*20 520	*27 230	*27 230	*23 910	21 030	*17 970	13 530	*14 090	9 870	*11 110	7 750	*10 820	7 600	9 145	
		-6.0 m	kg	-	-	*29 270	*29 270	*20 870	*20 870	*15 820	13 820	*12 010	10 140	-	-	*11 290	9 660	7 787	

EQUIPMENT.

STANDARD EQUIPMENT

	EC380D	EC480D
Engine		
Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets Tier 4i EU (Stage IIIB) 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 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	•	•

	EC380D	EC480D
Flexible antenna	•	•
AM/FM stereo with CD player and MP3 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	•	
700 mm with triple grousers		•
Digging equipment		
Boom: 6.45 m HD	•	
Boom: 7.0 m HD		•
Arm: 3.2 m HD	•	
Arm: 3.35 m HD		•
Manual centralized lubrication	•	•

OPTIONAL EQUIPMENT

	EC380D	EC480D
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:	•	•
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	•	•

OPTIONAL EQUIPMENT

	EC380D	EC480D
Additional return filter	•	•
Slope & rotator	•	•
Grapple	•	•
Oil leak (drain) line	•	•
Quick coupler piping	•	•
Volvo hydraulic quick coupler S3	•	•
Volvo hydraulic quick coupler U36	•	•
Volvo hydraulic quick coupler U46	•	•
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	•	•
Frame		
Hydraulic removable counterweight		•
Full height counterweight: 6 500 kg, 7 000 kg, 7 550 kg	•	
Full height counterweight: 8 450 kg, 9 050 kg, 9 750 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	•	•
Mechanically retractable width track gauge		•
Track shoes		
Track shoes 600/700/800/900 mm with triple grousers	•	•
Track shoes 600 mm with double grousers	•	•
Digging equipment		
Boom: 6.2 m ME	•	
Boom: 6.5 m ME		•
Arm: 2.6 m, 3.9 m	•	
Arm: 2.55 m, 3.9 m, 4.8 m		•
Linkage with lifting eye	•	•
Service		
Tool kit, daily maintenance	•	•
Tool kit, full scale	•	•
Automatic lubrication system	•	•

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Hose rupture valve, arm



Hammer & shear:
variable flow and pressure
pre-setting



FOG



Auto Engine Shutdown



Auto Lubrication System



Anti theft



VOLVO CONSTRUCTION EQUIPMENT

Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 175 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo.

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.

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