

Volvo Construction Equipment Building Tomorrow



Volvo Excavators 91.3-94.8 t 611 hp



WELCOME TO OUR WORLD

The Date is a local division of the

Welcome to a world of industry leading machinery. A world where imagination, hard work and technological innovation will lead the way towards developing a future which is cleaner, smarter, and more connected. A world supported by the enduring values of the Volvo Group. A world of stability, sustainability and innovation. A world which we put our customers at the heart of.

Welcome to the world of Volvo Construction Equipment – we think you're going to like it here.

Working harder, working smarter

For over 180 years Volvo has been a pioneer in the design and manufacture of machines which set the standard for efficiency, performance and uptime. Across our range of excavators, wheel loaders and haulers, our reputation for engineering excellence is unrivalled, which means whatever your operation or application, we can provide a total fleet solution to help you succeed.

Building on our proud history, the Volvo Concept Lab continues to create cutting-edge ideas and innovative concepts, to ensure we offer customers machines which work harder and smarter long into the future.



Solutions for you

Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

Designed for your business

Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

There when you need us

Whether you're buying new or used, our global network of dealers and technicians offer around-the-clock support, including machine monitoring and world-class parts availability. It's the basis of everything offered by Volvo Services, so you can be confident we've got you covered right from the start.

BUILDING TOMORROW

Big, powerful and productive

Do the big jobs better, stronger and faster with the EC950F. The 90 tonne crawler excavator offers the perfect combination of power and stability to handle a higher capacity in the toughest applications.

Solid stability

The outstanding stability of the EC950F means operators can work with confidence in the most challenging environments. The well-balanced and solid machine features a wide track gauge, long track length, retractable undercarriage and an optimized counterweight.



Comfortably productive

For operator convenience, all machine interfaces – including the joysticks, keypad and LCD monitor – are ergonomically positioned and designed for optimum control. The low-noise and spacious cab further enhances operator comfort and performance.



Powered by Volvo

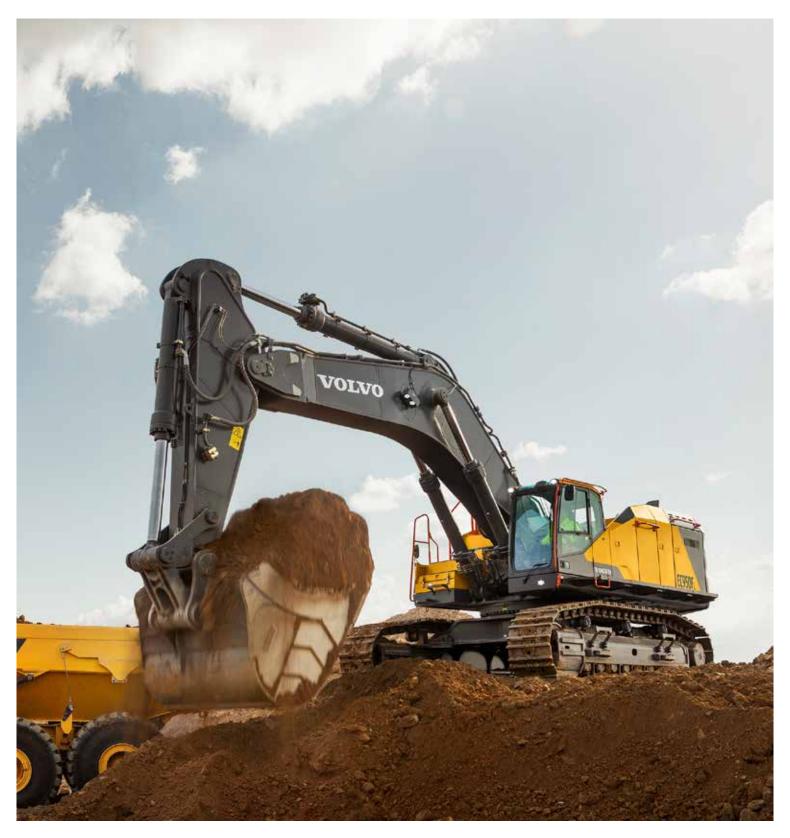
Rely on a superior performance from the EC950F, featuring a powerful 450kW Volvo D16 engine, which delivers high torque at low rpm. The machine utilizes advanced technology built on decades of experience to ensure a highly productive operation.



Buckets to match

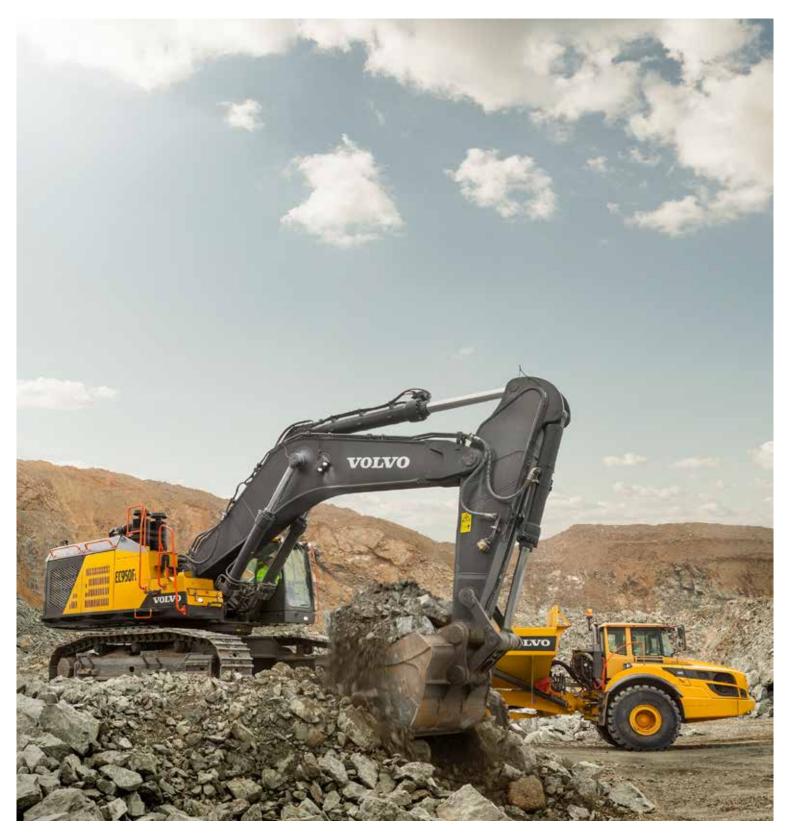
Maximize productivity with Volvo buckets, perfectly matched to your machine for ultimate digging results in all working conditions. Our range includes General Purpose, Heavy-Duty and Extreme-Duty buckets, and when your application requires something more unique, we offer Custom-Built Attachments to develop the right solution for you.





BIGGER MACHINE, BIGGER RESULTS

Gain more profitability in the EC950F, Volvo's largest crawler excavator. The 90 tonne excavator delivers a high bucket capacity for more tons per hour, achieving a fast and efficient on-site production.



SUPERIOR DIGGING FORCE

Even in the harshest applications, the EC950F is up to the challenge. Experience superior digging force, particularly when working with hard and heavy materials, thanks to constant high hydraulic pressure delivering power to the machine when you need it.

Peak performance

Job done. With the big and powerful EC950F, no task is too tough. Increase profitability with superior digging force, quick cycle times and outstanding fuel efficiency for a maximum return on investment.

Fast cycle times

Cut cycle times to a minimum with the fully electro-hydraulic system. The optimized hydraulics system increases pump power for a fast and smooth operation.



Outstanding fuel efficiency

Achieve outstanding fuel efficiency with Volvo's unique ECO Mode and electro-hydraulic system. ECO Mode optimizes the hydraulic system to reduce loss of flow and pressure, while the integrated work mode allows operators to choose the best work mode for the task at hand: select from I (Idle), F (Fine), G (General), H (Heavy) and P (Power max).



Complete control

For a more efficient operation, the electro-hydraulic system puts superior control in the operator's hands. Utilizing intelligent technology, the easy-to-use system controls on-demand flow and reduces internal losses in the hydraulic circuit. What's more, the EC950F comes with a boom-swing priority valve.



Do more

Take on a range of tasks in the hard-working EC950F. The attachment management system enhances machine versatility by storing settings for up to 20 different attachments, enabling the operator to pre-set hydraulic flow and pressure through the in-cab monitor.



Always-on

Rely on maximum uptime with the big and durable EC950F – always ready to work. The machine's heavy-duty design, reliable and wear-resistant components, and easy service access ensure you will get the job done safely and without delay.

Durable by design

Achieve non-stop production with the reliable EC950F, built with protected components to deliver maximum longevity in demanding applications. Outstanding machine protection is provided by features including a heavy-duty boom and arm, strong frame structure, heavy-duty underside plate and optional full-length track guard.



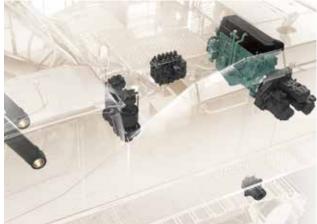
Wear-resistant digging

For a prolonged bucket lifespan, Volvo offers a range of wear parts including segments, side cutters, shrouds and teeth. When working with heavily compacted material the Pick Point tooth provides maximum penetration, and the new Volvo Tooth System enables teeth changes in minutes: simply place, push and click – it's that easy to install.



Proven reliability

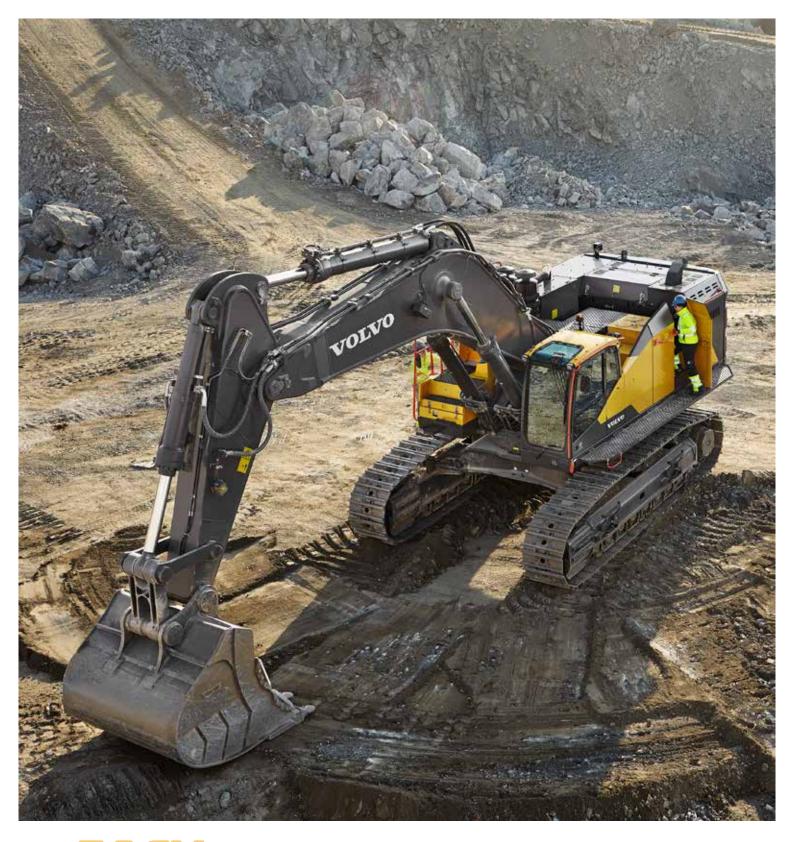
Count on a solid EC950F with Volvo's high-quality components, designed to work in perfect harmony with the machine. Volvo's commitment to rigorous testing in its development process ensures the production of well-engineered components, purpose-built for the job, and proven to be reliable in the toughest applications.



Safety first

Safety is built in to the machine thanks to a large entrance, including high visibility handrails and conveniently positioned steps, as well as anti-slip plates. The optional FOG (Falling Object Guard) and FOPS (Falling Object Protective Structure) provide further peace-of-mind when working in tough applications. For added visibility, the EC950F can be equipped with rear view and side cameras, or Volvo Smart View which provides 360° vision.





EASY SERVICE ACCESS

Maximize uptime with quick and safe servicing. Essential maintenance points are easily accessed via the wide-opening and conveniently located compartment doors using central and surrounding walkways.



EASY MACHINE Monitoring

Maximize machine uptime and reduce repair costs with Volvo ACTIVE CARE. Utilizing CareTrack data, the intelligent service provides round the clock machine monitoring and tailored customer reports, helping you to keep track of your fleet and take preventive maintenance actions.

Keeping costs down

Engineering machines which deliver outstanding results is just the start of how we can support your operation. As your partner we are here to help with every aspect of your Volvo machinery. Our portfolio of services is designed to complement your machine's performance and boost your profitability.

Volvo dealer network

Volvo has the right solution for you. By listening to your requirements, we can reduce your total cost of ownership and increase your revenue. With our extensive infrastructure of technicians, workshops and dealers, Volvo has a comprehensive network to fully support you using local knowledge and global experience.



Customer Support Agreements

The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of your service costs.



Machine diagnosis

Analyze machine usage, reduce maintenance costs and increase service life with Volvo's diagnostic analysis software. MATRIS analyses the machine's operational data and functions, which can be adjusted accordingly.



Genuine Volvo Parts

Every part is vital for optimized uptime and performance of your machine. Genuine Volvo Parts are extensively tested and approved to ensure the highest quality. Talk to your local Volvo dealer to discover parts availability and quick and easy delivery via our global parts distribution network.



Go big

THE OPERATOR'S CHOICE

- Spacious and quiet cab, ergonomic controls
- Boom-swing priority function
- Dig Assist, powered by Volvo Co-Pilot (Option)



ROBUST PROTECTION

- Heavy-duty boom and arm
- Additional underside plate
- Floating pins on the bucket connection

VERSATILITY

- General Purpose, Heavy-Duty and Extreme-Duty buckets
- Range of wear parts: teeth, side cutters, segments and wear shrouds
- Custom-Built Attachments for specific applications
- Attachment Management System: pre-set hydraulic flow and pressure

EFFICIENTLY PRODUCTIVE

- Powerful 450kW Volvo D16 engine: high torque at low RPM
- Fully electro-hydraulic system
- Constant high hydraulic pressure for superior digging force
- ECO mode, Work modes

KEEP ON DIGGING

- Easy service access, wide-opening compartment doors
- Volvo Tooth System: quick, easy and safe installation
- Volvo ACTIVE CARE: round-the-clock machine monitoring
- Genuine Volvo Parts



SAFETY FIRST

- High-visibility handrails
 - Anti-slip plates
 - Central and surrounding walkways
 - Rear and side view cameras, Volvo Smart View (Options)

SOLID STABILITY

- Wide track gauge
- Long track length
- Retractable undercarriage
- Optimized counterweight

Volvo EC950F in detail

Engine

The engine is a low emission, turbocharged air-to-air cooling, 4-stroke diesel engine with water cooling, direct injection controlled electronically, that meets EU Stage V requirements. The engine has been developed especially for excavator use, providing good fuel efficiency, low sound level and a long service life. Air Filter : 3-stage

Automatic Idling System : Reduces the engine speed to idle / when levers and pedals are not activated / resulting in less fuel consumption and low cab noise level.

Engine	Volvo	D16J
Max power at	r/min	1 650
Net, ISO 9249/SAE J1349	kW	450
	hp	612
Gross, ISO 14396/SAE J1995	kW	449
	hp	611
Max torque	Nm	2 700
at engine speed	r/min	1 400
No. of cylinders		6
Displacement	1	16.1
Bore	mm	144
Stroke	mm	165

Electrical system

Contronics, provides advanced monitoring of machine function and important diagnostic information.

High capacity and well protected electrical system. Centrally located fuse and relay box using clearly arranged printed circuit board mounted, for easy access, behind the cab.

A master switch is standard.		
Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	210
Alternator	V/A	28/80

Undercarriage

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

Track shoes		51 x 2
Link pitch	mm	260.4
Shoe width, double grouser	mm	650/750/900
Bottom rollers		9 x 2
Top rollers		3 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

The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with a 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 door. Integrated air conditioning and heating system: The pressurized and filtered each bit is conditioning and heating system: The pressurized and

filtered cab air is supplied by automatically controlled fan. The air is distributed via 13 vents.

Ergonomic operator's seat: The adjustable seat and joystick consoles move adjustments and a seat belt to meet any operator's comfort and safety.

Swing system

The superstructure is slewed by two units of hydraulic piston motors with 2 stage planetary gear reduction box. Automatic swing holding brake and anti-rebound valve are equipped.

Max. slew speed	r/min	6.9
Max. slew torque	kNm	343

Travel System

gears on each track.	2 stage planetary	reduction
Framework: All-welded robust torsion box t Track Gauge: Retractable.	frame.	
Max. drawbar pull	kN	565
Max. travel speed (low)	km/h	2.8
Max. travel speed (high)	km/h	4.4
Gradeability	٥	33
Sound Level		
Sound pressure level in cab according to IS	SO 6396	
L _{pA}	dB	74
External sound level according to ISO 639 2000/14/EC	5 and EU Noise	Directive
L _{WA}	dB	111
Hydraulic system		
arm priority, swing priority along with boom optimum performance. The following important functions are includ Summation system: Combines the flow of ensure quick cycle times and high productiv Boom priority: Gives priority to the boom o loading or performing deep excavation. Arm priority: Gives priority to the arm opera leveling and for increased bucket filling whe Swing priority: Gives priority to swing func Regeneration system: Prevents cavitation : Molding valves: Boom and arm holding val	led in the system both hydraulic p ity peration, for fast ation, for faster c n digging. tions for faster and provides flow for maximum p	n: umps to raising when cycle times in w to other roductivity
equipment from creeping Main pump. Type: 3 x variable displacemer		
Maximum flow		2 x 515; 1 x 147
Pilot pump. Type: Gear pump	l,	
Maximum flow	l/min	1 x 37.8
	<i>,</i>	
Reliel value setting pressure		
Relief value setting pressure	MPa	34.3
Implement	MPa MPa	
Implement Travel circuit	MPa	34.3
Implement Travel circuit Slew circuit	MPa MPa	34.3 28.4
Implement Travel circuit Slew circuit Pilot circuit	MPa	34.3 28.4
Implement Travel circuit Slew circuit Pilot circuit Hydraulic Motors Travel: Variable displacement axial piston moto Slew: Fixed displacement axial piston moto	MPa MPa MPa	34.3 28.4 3.9
Implement Travel circuit Slew circuit Pilot circuit Hydraulic Motors Travel: Variable displacement axial piston moto Slew: Fixed displacement axial piston moto	MPa MPa MPa	34.3 28.4 3.5 al brake
Implement Travel circuit Slew circuit Pilot circuit Hydraulic Motors Travel: Variable displacement axial piston m Slew: Fixed displacement axial piston moto Hydraulic Cylinders	MPa MPa MPa	34.3 28.4 3.9 al brake
Implement Travel circuit Slew circuit Pilot circuit tydraulic Motors Travel: Variable displacement axial piston m Slew: Fixed displacement axial piston moto tydraulic Cylinders Mono boom	MPa MPa MPa notors r with mechanic	34.3 28.4 3.5 al brake 2 215 x 1 930
Implement Travel circuit Slew circuit Pilot circuit lydraulic Motors Travel: Variable displacement axial piston m Slew: Fixed displacement axial piston moto lydraulic Cylinders Mono boom Bore x Stroke	MPa MPa MPa notors r with mechanic	34.3 28.4 3.5 al brake 2 215 x 1 930
Implement Travel circuit Slew circuit Pilot circuit lydraulic Motors Travel: Variable displacement axial piston m Slew: Fixed displacement axial piston moto lydraulic Cylinders Mono boom Bore x Stroke Arm	MPa MPa notors r with mechanic	34.3 28.4 3.5 al brake 2 215 x 1 930 - 240 x 2 180
Implement Travel circuit Slew circuit Pilot circuit Hydraulic Motors Travel: Variable displacement axial piston m Slew: Fixed displacement axial piston moto Hydraulic Cylinders Mono boom Bore x Stroke Arm Bore x Stroke	MPa MPa notors r with mechanic	34.3 28.4 3.5 al brake 215 x 1 930 215 x 1 930 240 x 2 180
Implement Travel circuit Slew circuit Pilot circuit Hydraulic Motors Travel: Variable displacement axial piston m Slew: Fixed displacement axial piston moto Hydraulic Cylinders Mono boom Bore x Stroke Arm Bore x Stroke Bucket	MPa MPa notors r with mechanic ø x mm ø x mm	34.3 28.4 3.9 al brake 215 x 1 930 240 x 2 180 200 x 1 500
Implement Travel circuit Slew circuit Pilot circuit lydraulic Motors Travel: Variable displacement axial piston m Slew: Fixed displacement axial piston moto lydraulic Cylinders Mono boom Bore x Stroke Arm Bore x Stroke Bucket Bore x Stroke	MPa MPa notors r with mechanic ø x mm ø x mm	34.3 28.4 3.5 al brake 215 x 1 930 240 x 2 180 200 x 1 500
Implement Travel circuit Slew circuit Pilot circuit 4ydraulic Motors Travel: Variable displacement axial piston moto 4ydraulic Cylinders Mono boom Bore x Stroke Arm Bore x Stroke Bucket Bore x Stroke ME Bucket Bore x Stroke Bore x Stroke	MPa MPa motors r with mechanic ø x mm ø x mm ø x mm	34.3 28.4 3.9 al brake 215 x 1 930 240 x 2 180 200 x 1 500
Implement Travel circuit Slew circuit Pilot circuit Hydraulic Motors Travel: Variable displacement axial piston moto Hydraulic Cylinders Mono boom Bore x Stroke Arm Bore x Stroke Bucket Bore x Stroke ME Bucket Bore x Stroke Bore x Stroke Bore x Stroke	MPa MPa motors r with mechanic ø x mm ø x mm ø x mm	34.3 28.4 3.9 al brake 215 x 1 930 240 x 2 180 200 x 1 500 230 x 1 500
Implement Travel circuit Slew circuit Pilot circuit Hydraulic Motors Travel: Variable displacement axial piston moto Hydraulic Cylinders Mono boom Bore x Stroke Arm Bore x Stroke Bucket Bore x Stroke ME Bucket Bore x Stroke Service Refill	MPa MPa motors r with mechanic ø x mm ø x mm ø x mm	34.3 28.4 3.9 al brake 215 x 1 930 240 x 2 180 200 x 1 500 230 x 1 500 1 265
Implement Travel circuit Slew circuit Pilot circuit Hydraulic Motors Travel: Variable displacement axial piston mo Slew: Fixed displacement axial piston moto Hydraulic Cylinders Mono boom Bore x Stroke Arm Bore x Stroke Bucket Bore x Stroke ME Bucket Bore x Stroke Service Refill Fuel tank	MPa MPa motors r with mechanic ø x mm ø x mm ø x mm ø x mm	34.3 28.4 3.5 al brake 215 x 1 930 215 x 1 930 240 x 2 180 200 x 1 500 230 x 1 500 1 265 890
Implement Travel circuit Slew circuit Pilot circuit Hydraulic Motors Travel: Variable displacement axial piston mo Slew: Fixed displacement axial piston moto Hydraulic Cylinders Mono boom Bore x Stroke Arm Bore x Stroke Bucket Bore x Stroke ME Bucket Bore x Stroke Service Refill Fuel tank Hydraulic system, total	MPa MPa motors r with mechanic ø x mm ø x mm ø x mm v x mm	34.3 28.4 3.9 al brake 215 x 1 930 215 x 1 930 240 x 2 180 200 x 1 500 230 x 1 500 1 265 890 460
Implement Travel circuit Slew circuit Pilot circuit Hydraulic Motors Travel: Variable displacement axial piston m Slew: Fixed displacement axial piston moto Hydraulic Cylinders Mono boom Bore x Stroke Arm Bore x Stroke Bucket Bore x Stroke ME Bucket Bore x Stroke Service Refill Fuel tank Hydraulic system, total Hydraulic tank	MPa MPa MPa notors r with mechanic ø x mm ø x mm ø x mm l l l	34.3 28.4 3.9 al brake 215 x 1 930 215 x 1 930 240 x 2 180 200 x 1 500 230 x 1 500 1 265 890 460 52
Implement Travel circuit Slew circuit Pilot circuit Hydraulic Motors Travel: Variable displacement axial piston m Slew: Fixed displacement axial piston moto Hydraulic Cylinders Mono boom Bore x Stroke Arm Bore x Stroke Bucket Bore x Stroke ME Bucket Bore x Stroke ME Bucket Bore x Stroke Service Refill Fuel tank Hydraulic system, total Hydraulic tank Engine oil	MPa MPa MPa notors r with mechanic. Ø x mm Ø x mm Ø x mm I I I I	34.3 28.4 3.9 al brake 2 215 x 1 930 240 x 2 180 200 x 1 500 230 x 1 500 230 x 1 500 1 265 890 460 52
Implement Travel circuit Slew circuit Pilot circuit Hydraulic Motors Travel: Variable displacement axial piston m Slew: Fixed displacement axial piston moto Hydraulic Cylinders Mono boom Bore x Stroke Arm Bore x Stroke Bucket Bore x Stroke ME Bucket Bore x Stroke Service Refill Fuel tank Hydraulic system, total Hydraulic tank Engine oil Engine coolant	MPa MPa MPa notors r with mechanic. ø x mm ø x mm ø x mm l l l l	34.3 34.3 28.4 3.9 al brake 2215 x 1 930 2215 x 1 930 2215 x 1 930 2200 x 1 500 230 x 1 500 240 x 2 180 200 x 1 500 200 x 1 200 x 1 200 200 x 1 200 x 1 20

Specifications

GROUND PRESSURE

GROUND PRESSURE				EC9	505		
			n 7.25 m, Arm 2 cket 4 515kg(4.7	.95m,	Boo	om 8.4 m, Arm 3 :ket 4 190kg(3.9	
		Cou	nterweight 16 2	DOkg	Cou	nterweight 16 2	DOkg
Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
	650	91 275	123.8	4 298	92 850	125.9	4 298
Double grouser	750	92 115	108.3	4 300	93 690	110.1	4 300
	900	93 235	91.3	4 450	94 810	92.9	4 450

BUCKET SELECTION GUIDE						Recommended maximum material density (kg/m³)				
			Capacity	Cutting width	Tip	Weight	Teeth		EC950F	
Bucket type				width	radius	radius		7.25m ME Boom		
			m ³	mm	mm	kg	EA	M2.95m Arm	M2.95m Arm	G3.7m Arm
			3 900	1970	2 221	4 321	5	1800	1800	1800
			4 700	2 000	2 348	4 648	5	1800	1800	1800
		GP	5 400	2 280	2 348	4 992	5	1800	1800	1 700
		GP	6 000	2 350	2 4 4 6	5 2 3 3	5	1800	1700	1500
			6 500	2 300	2 566	5 277	5	1800	1500	1300
			7 000	2 450	2 566	5 583	6	1800	1400	1200
Direct fit Buckets	V4		3 900	1970	2 279	5 299	5	2 100	1800	1800
without quick coupler			4 700	2 000	2 404	5 722	5	2 100	1800	1800
			5 200	2 200	2 404	5 999	5	2 100	1800	1500
		HD	5 400	2 280	2 404	6 137	5	2 100	1700	1500
			5 600	2 350	2 404	6 261	5	2 100	1600	1400
			6 000	2 350	2 505	6 198	5	2 100	1 500	1300
			6 500	2 300	2 620	6 264	5	2 000	1400	1200
	V6	EDX	6 500	2 750	2 803	6 986	5	1800	1300	1 100

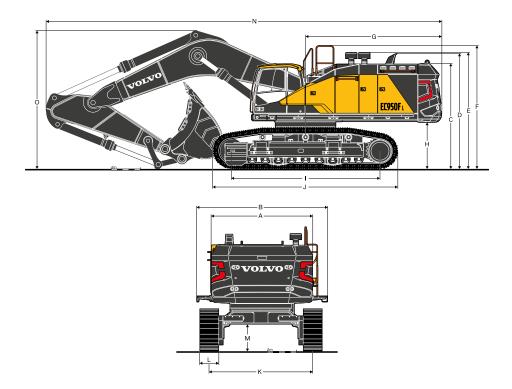
Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application. (In case of using bigger bucket than regional standard MRS, consultation with R&D is highly recommended) The recommendations are given as a guide only, based on typical operation conditions. Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

Maximum materal density				
1 200~1 300 kg/m ³	Coal, Caliche, Shale			
1 400~1 600 kg/m³	Wet earth and clay, Limestone, Sandstone			
1 700~1 800 kg/m ³	Granite, Wet sand, Well blasted rock			
1 900 kg/m³ ~	Wet mud, Iron ore			

X : Not recommended

Specifications

DIMENSIONS



Description	Unit		EC950F	
Boom	m	7.25 8.4		
Arm	m	2.95	2.95	3.7
A Overall width of superstructure	mm	3 485	3 485	3 485
B Overall width (incl. walkway)	mm	4 467	4 467	4 467
C Overall height of cab	mm	3 655	3 655	3 655
D Overall height of tail pipe	mm	3 990	3 990	3 990
E Overall height of precleaner	mm	4 025	4 025	4 025
Overall height of oil bath	mm	4 180	4 180	4 180
F Overall height of guardrail	mm	4 263	4 263	4 263
G Tail swing radius	mm	4 700	4 700	4 700
H Counterweight clearance *	mm	1 623	1 623	1 623
I Tumbler length	mm	5 120	5 120	5 120
J Track length	mm	6 380	6 380	6 380
K Track gauge(extended)	mm	3 550	3 550	3 550
Track gauge (retracted)	mm	2 790	2 790	2 790
L Shoe width	mm	650	650	650
M Min. ground clearance *	mm	915	915	915
N Overall length	mm	13 615	14 765	14 600
O Overall height of boom	mm	4 950	4 875	4 905

* With shoe grouser

Boom cylinder						
Length	Height	Width	Weight			
mm	mm	mm	kg			
3 000	600	480	1 800			
ose of Boom	cylinder	~				
Len	gth	Weight	Q'ty			
mm		kg	EA			
12	50	5	2			
11	70	4	2			
ounterweigh	t					
Length	Height	Width	Weight			
mm	mm	mm	kg			
3 485	2 150	830	16 100			
hoes						
Shoe width	Length	Height	Overall width Weight /			

Shoe width	Length	Height	Overall width	Weight / unit
mm	mm	mm	mm	kg
650	6 380	1 4 4 5	1085	12 930
750	6380	1 4 4 5	1085	13 300
900	6 380	1 4 4 5	1 160	13 860

Superstructure						
Height of tail pipe	Width*	Weight				
mm	mm	kg				
3 077	3 475	42 810				
	Height of tail pipe mm	Height of tail pipe Width* mm mm				

*Upper structure rotated by 90deg (across)

Basic machine	e (without cou	unterweight)		
Shoe width	Length	Height of tail pipe	Overall width (retracted)	Weight
mm	mm	mm	mm	kg
650	7 475	3 990	3 685	52 520
750	7 475	3 990	3 685	53 270
900	7 475	3 990	3 690	54 390

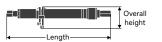
Superstructu	re, including U	C and Boom,	excluding CWT
Boom	Shoe width	Length	Weight
	650	11 332	79 150
7.25	750	113 32	79 990
	900	11 332	81 110
	650	12 555	79 600
8.4	750	12 555	80 440
	900	12 555	81 560

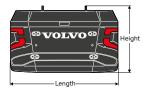
Walkway

waikway				
Location	Length	Width	Height	Weight
LH front	1 310	480	65	21
LH rear	1545	480	65	25
RH front	1020	480	65	17
RH rear	1 115	480	65	18
Middle	1 210	480	65	21

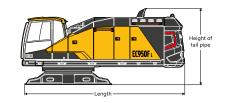
Lower frame v	with swing rin	g		
Length (A)	Width (B)	Height	Weight	
mm	mm	mm	kg	
3 500	2 520	1 0 9 5	7 455	

Superstructu	re w/o swing r	ing	
Length (A)	Height of tail pipe(B)	Width	Weight
mm	mm	mm	kg
6 195	2 508	3 475	19 025

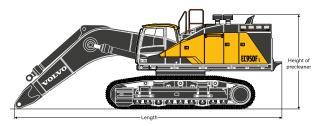


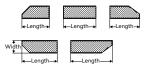












Specifications

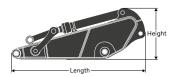
Des	cription	Unit	EC9	50F
Boo	m	m	7.25	8.4
А	Length	mm	7 620	8 590
В	Height	mm	2 580	2 395
Wi	dth	mm	1 100	1 100
We	ight	kg	9 580	9 130

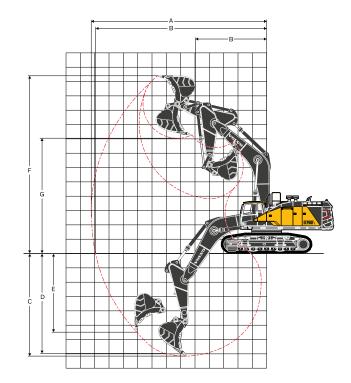
* Includes cylinder, piping and pin

Des	cription	Unit	EC9	50F
Arn	า	m	2.95	3.7
А	Length	mm	4 470	5 210
В	Height	mm	1 675	1 4 8 5
Wi	dth	mm	835	790
We	eight	kg	5 470	5 340

* Includes bucket cylinder, linkage and pin







wo	RKING RANGES							
Des	cription		Unit		EC950F			
Boo	m		m	7.25	8	.4		
Arm			m	2.95	2.95	3.7		
А	Max. digging reach		mm	12 270	13 480	14 020		
В	Max. digging reach on ground		mm	11 950	13 190	13 750		
С	Max. digging depth		mm	7 120	8 330	8 950		
D	Max. digging depth (I = 2.44 r	n level)	mm	6 980	8 180	8 820		
Е	Max. vertical wall digging dep	th	mm	5 390	6 450	7 300		
F	Max. cutting height		mm	12 410	13 100	13 280		
G	Max. dumping height		mm	8 090	8 790	9 200		
Н	Min. front swing radius		mm	4 970	6 010	5 910		
DIG	GING FORCES WITH DIREC	I FIT BUCKET						
Buc	ket radius		mm	2 348	2 348	2 221		
Due	akout force - bucket	ISO 6015	kN	478	478	388		
bre	akout force - bucket	SAE J1179	kN	424	424	341		
т		ISO 6015	kN	420	420	359		
rea	rout force - dipper arm	SAE J1179	kN	408	408	350		
Rot	ation angle, bucket		kN	170	170	170		

LIFTING CAPACITY EC950F

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 h		3.0) m	4.5	m	6.0) m	7.5	m	9.0) m	10.5	5 m	N	lax. read	ch
		related ground le		Along UC	Across UC	Max. m												
Boom:	7.25 m ME	9.0 m	kg							*23 410	*23 410					*20 920	*20 920	7.70
Arm:	2.95 m ME	7.5 m	kg							*23 470	*23 470					*20 070	*20 070	8.71
Shoe:	650 mm	6.0 m	kg			*37 080	*37 080	*29 020	*29 020	*24 780	*24 780	*22 380	20 830			*19 970	19 430	9.37
CWT:	16 100 kg	4.5 m	kg					*32 710	*32 710	*26 610	*26 610	*23 110	20 330			*20 420	17 840	9.77
		3.0 m	kg					*35 880	*35 880	*28 340	25 870	*23 900	19 770			*21 470	17 080	9.92
		1.5 m	kg					*37 410	34 720	*29 400	25 060	*24 320	19 310			*22 040	17 010	9.84
		0 m	kg			*36 060	*36 060	*37 060	34 160	*29 360	24 600	*23 890	19 050			*22 100	17 660	9.52
		-1.5 m	kg	*31 400	*31 400	*43 770	*43 770	*34 900	34 100	*27 850	24 500					*21 980	19 270	8.95
		-3.0 m	kg	*43 890	*43 890	*37 740	*37 740	*30 610	*30 610	*24 000	*24 000					*21 280	*21 280	8.05
		-4.5 m	kg			*28 200	*28 200	*22 570	*22 570							*18 960	*18 960	6.71
Boom:	8.4 m GP	10.5 m	kg													*20 930	*20 930	7.98
Arm:	2.95 m ME	9.0 m	kg							*20 980	*20 980	*19 710	*19 710			*19 670	*19 670	9.21
Shoe:	650 mm	7.5 m	kg							*22 100	*22 100	*19 870	*19 870			*19 040	17 190	10.07
CWT:	16 100 kg	6.0 m	kg					*29 430	*29 430	*23 880	*23 880	*20 700	20 270	*18 820	15 760	*18 710	15 370	10.65
		4.5 m	kg							*25 850	25 550	*21 740	19 530	*19 180	15 420	*18 560	14 300	11.00
		3.0 m	kg							*27 440	24 390	*22 660	18 840	*19 550	15 040	*18 510	13 770	11.13
		1.5 m	kg							*28 220	23 610	*23 170	18 300	*19 660	14 730	*18 490	13 690	11.06
		0 m	kg					*34 670	32 350	*28 010	23 220	*23 050	17 990	*19 190	14 580	*18 440	14 090	10.78
		-1.5 m	kg					*32 520	32 470	*26 770	23 160	*22 030	17 930			*18 250	15 080	10.28
		-3.0 m	kg			*33 510	*33 510	*29 220	*29 220	*24 290	23 400	*19 590	18 180			*17 720	16 990	9.51
		-4.5 m	kg			*27 570	*27 570	*24 190	*24 190	*19 820	*19 820					*16 380	*16 380	8.41
		-6.0 m	kg					*15 720	*15 720									6.81
Boom:	8.4 m GP	10.5 m	kg													*14 500	*14 500	8.90
Arm:	3.7 m GP	9.0 m	kg									*18 180	*18 180			*13 720	*13 720	10.02
Shoe:	650 mm	7.5 m	kg									*18 690	*18 690	*17 500	16 360	*13 390	*13 390	10.81
CWT:	16 100 kg	6.0 m	kg					*27 360	*27 360	*22 580	*22 580	*19 710	*19 710	*17 890	16 070	*13 400	*13 400	11.36
		4.5 m	kg					*31 370	*31 370	*24 760	*24 760	*20 940	19 880	*18 500	15 640	*13 660	13 110	11.68
		3.0 m	kg					*34 530	34 330	*26 690	24 900	*22 100	19 120	*19 110	15 190	*14 230	12 640	11.81
		1.5 m	kg					*35 920	33 030	*27 920	23 950	*22 900	18 490	*19 500	14 810	*15 110	12 550	11.74
		0 m	kg					*35 660	32 480	*28 230	23 380	*23 140	18 070	*19 460	14 550	*16 480	12 850	11.48
		-1.5 m	kg											*18 670	14 470	*17 270	13 610	11.01
		-3.0 m	kg	*29 970	*29 970	*38 250	*38 250	*31 480	*31 480	*25 720	23 230	*21 020	17 940			*17 040	15 050	10.29
		-4.5 m	kg	*37 450	*37 450	*32 640	*32 640	*27 300	*27 300	*22 370	*22 370	*17 490	*17 490			*16 330	*16 330	9.29
		-6.0 m	kg			*24 420	*24 420	*20 710	*20 710	*16 030	*16 030					*14 450	*14 450	7.87

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 EC950F

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 h		3.0) m	4.5	i m	6.0) m	7.5	i m	9.0) m	10.	5 m	N	lax. read	ch
		related ground le		Along UC	Across UC	Max. m												
Boom:	7.25 m ME	9.0 m	kg							*23 410	*23 410					*20 920	*20 920	7.70
Arm:	2.95 m ME	7.5 m	kg							*23 470	*23 470					*20 070	*20 070	8.71
Shoe:	750 mm	6.0 m	kg			*37 080	*37 080	*29 020	*29 020	*24 780	*24 780	*22 380	21 0 0 0			*19 970	19 590	9.37
CWT:	16 100 kg	4.5 m	kg					*32 710	*32 710	*26 610	*26 610	*23 110	20 500			*20 420	17 990	9.77
		3.0 m	kg					*35 880	*35 880	*28 340	26 080	*23 900	19 940			*21 470	17 230	9.92
		1.5 m	kg					*37 410	35 010	*29 400	25 280	*24 320	19 480			*22 040	17 160	9.84
		0 m	kg			*36 060	*36 060	*37 060	34 450	*29 360	24 810	*23 890	19 220			*22 100	17 810	9.52
		-1.5 m	kg	*31 400	*31 400	*43 770	*43 770	*34 900	34 400	*27 850	24 720					*21 980	19 450	8.95
		-3.0 m	kg	*43 890	*43 890	*37 740	*37 740	*30 610	*30 610	*24 000	*24 000					*21 280	*21 280	8.05
		-4.5 m	kg			*28 200	*28 200	*22 570	*22 570							*18 960	*18 960	6.71
Boom:	8.4 m GP	10.5 m	kg													*20 930	*20 930	7.98
Arm:	2.95 m ME	9.0 m	kg							*20 980	*20 980	*19 710	*19 710			*19 670	*19 670	9.21
Shoe:	750 mm	7.5 m	kg							*22 100	*22 100	*19 870	*19 870			*19 040	17 340	10.07
CWT:	16 100 kg	6.0 m	kg					*29 430	*29 430	*23 880	*23 880	*20 700	20 440	*18 820	15 900	*18 710	15 510	10.65
		4.5 m	kg							*25 850	25 760	*21 740	19 700	*19 180	15 560	*18 560	14 440	11.00
		3.0 m	kg							*27 440	24 610	*22 660	19 010	*19 550	15 180	*18 510	13 900	11.13
		1.5 m	kg							*28 220	23 830	*23 170	18 470	*19 660	14 880	*18 490	13 830	11.06
		0 m	kg					*34 670	32 640	*28 010	23 430	*23 050	18 160	*19 190	14 720	*18 440	14 230	10.78
		-1.5 m	kg					*32 520	*32 520	*26 770	23 370	*22 030	18 100			*18 250	15 230	10.28
		-3.0 m	kg			*33 510	*33 510	*29 220	*29 220	*24 290	23 610	*19 590	18 350			*17 720	17 140	9.51
		-4.5 m	kg			*27 570	*27 570	*24 190	*24 190	*19 820	*19 820					*16 380	*16 380	8.41
		-6.0 m	kg					*15 720	*15 720									6.81
Boom:	8.4 m GP	10.5 m	kg													*14 500	*14 500	8.90
Arm:	3.7 m GP	9.0 m	kg									*18 180	*18 180			*13 720	*13 720	10.02
Shoe:	750 mm	7.5 m	kg									*18 690	*18 690	*17 500	16 500	*13 390	*13 390	10.81
CWT:	16 100 kg	6.0 m	kg					*27 360	*27 360	*22 580	*22 580	*19 710	*19 710	*17 890	16 210	*13 400	*13 400	11.36
		4.5 m	kg					*31 370	*31 370	*24 760	*24 760	*20 940	20 050	*18 500	15 780	*13 660	13 230	11.68
		3.0 m	kg					*34 530	*34 530	*26 690	25 120	*22 100	19 290	*19 110	15 330	*14 230	12 770	11.81
		1.5 m	kg					*35 920	33 320	*27 920	24 170	*22 900	18 660	*19 500	14 950	*15 110	12 680	11.74
		0 m	kg					*35 660	32 770	*28 230	23 600	*23 140	18 240	*19 460	14 690	*16 480	12 970	11.48
		-1.5 m	kg			*28 820	*28 820	*34 160	32 680	*27 540	23 370	*22 620	18 050	*18 670	14 610	*17 270	13 740	11.01
		-3.0 m				*38 250										*17 040	15 190	10.29
		-4.5 m	kg	*37 450	*37 450	*32 640	*32 640	*27 300	*27 300	*22 370	*22 370	*17 490	*17 490			*16 330	*16 330	9.29
		-6.0 m	kg			*24 420	*24 420	*20 710	*20 710	*16 030	*16 030					*14 450	*14 450	7.87

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities.
2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.
3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY EC950F

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 h		3.0) m	4.5	m	6.0) m	7.5	m	9.0) m	10.	5 m	N	lax. rea	ch
		related ground le		Along UC	Across UC	Max. m												
Boom:	7.25 m ME	9.0 m	kg							*23 410	*23 410					*20 920	*20 920	7.70
Arm:	2.95 m ME	7.5 m	kg							*23 470	*23 470					*20 070	*20 070	8.71
Shoe:	900 mm	6.0 m	kg			*37 080	*37 080	*29 020	*29 020	*24 780	*24 780	*22 380	21 2 30			*19 970	19 810	9.37
CWT:	16 100 kg	4.5 m	kg					*32 710	*32 710	*26 610	*26 610	*23 110	20 730			*20 420	18 200	9.77
		3.0 m	kg					*35 880	*35 880	*28 340	26 370	*23 900	20 170			*21 470	17 430	9.92
		1.5 m	kg					*37 410	35 410	*29 400	25 570	*24 320	19 710			*22 040	17 370	9.84
		0 m	kg			*36 060	*36 060	*37 060	34 840	*29 360	25 100	*23 890	19 450			*22 100	18 030	9.52
		-1.5 m	kg	*31 400	*31 400	*43 770	*43 770	*34 900	34 790	*27 850	25 000					*21 980	19 670	8.95
		-3.0 m	kg	*43 890	*43 890	*37 740	*37 740	*30 610	*30 610	*24 000	*24 000					*21 280	*21 280	8.05
		-4.5 m	kg			*28 200	*28 200	*22 570	*22 570							*18 960	*18 960	6.71
Boom:	8.4 m GP	10.5 m	kg													*20 930	*20 930	7.98
Arm:	2.95 m ME	9.0 m	kg							*20 980	*20 980	*19 710	*19 710			*19 670	*19 670	9.21
Shoe:	900 mm	7.5 m	kg							*22 100	*22 100	*19 870	*19 870			*19 040	17 540	10.07
CWT:	16 100 kg	6.0 m	kg					*29 430	*29 430	*23 880	*23 880	*20 700	20 670	*18 820	16 090	*18 710	15 700	10.65
		4.5 m	kg							*25 850	*25 850	*21 740	19 930	*19 180	15 750	*18 560	14 610	11.00
		3.0 m	kg							*27 440	24 890	*22 660	19 230	*19 550	15 370	*18 510	14 080	11.13
		1.5 m	kg							*28 220	24 110	*23 170	18 700	*19 660	15 060	*18 490	14 000	11.06
		0 m	kg					*34 670	33 040	*28 010	23 720	*23 050	18 390	*19 190	14 910	*18 440	14 410	10.78
		-1.5 m	kg					*32 520	*32 520	*26 770	23 660	*22 030	18 330			*18 250	15 420	10.28
		-3.0 m	kg			*33 510	*33 510	*29 220	*29 220	*24 290	23 900	*19 590	18 580			*17 720	17 360	9.51
		-4.5 m	kg			*27 570	*27 570	*24 190	*24 190	*19 820	*19 820					*16 380	*16 380	8.41
		-6.0 m	kg					*15 720	*15 720									6.81
Boom:	8.4 m GP	10.5 m	kg													*14 500	*14 500	8.90
Arm:	3.7 m GP	9.0 m	kg									*18 180	*18 180			*13 720	*13 720	10.02
Shoe:	900 mm	7.5 m	kg									*18 690	*18 690	*17 500	16 690	*13 390	*13 390	10.81
CWT:	16 100 kg	6.0 m	kg					*27 360	*27 360	*22 580	*22 580	*19 710	*19 710	*17 890	16 400	*13 400	*13 400	11.36
		4.5 m	kg					*31 370	*31 370	*24 760	*24 760	*20 940	20 280	*18 500	15 970	*13 660	13 400	11.68
		3.0 m	kg					*34 530	*34 530	*26 690	25 410	*22 100	19 520	*19 110	15 520	*14 230	12 930	11.81
		1.5 m	kg					*35 920	33 720	*27 920	24 460	*22 900	18 890	*19 500	15 130	*15 110	12 840	11.74
		0 m	kg					*35 660	33 170	*28 230	23 890	*23 140	18 470	*19 460	14 870	*16 480	13 140	11.48
		-1.5 m	kg			*28 820	*28 820	*34 160	33 080	*27 540	23 660	*22 620	18 270	*18 670	14 800	*17 270	13 920	11.01
		-3.0 m				*38 250										*17 040	15 380	10.29
		-4.5 m	kg	*37 450	*37 450	*32 640	*32 640	*27 300	*27 300	*22 370	*22 370	*17 490	*17 490			*16 330	*16 330	9.29
		-6.0 m	kg			*24 420	*24 420	*20 710	*20 710	*16 030	*16 030					*14 450	*14 450	7.87

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Equipment

STANDARD EQUIPMENT
Engine
Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler
Air filter with indicator
Air intake heater
Cyclone pre-cleaner
Electric engine shut-off
Fuel filter and water separator
Alternator, 80 A
Electric / Electronic control system
Contronics
Advanced mode control system
Self-diagnostic system
Machine status indication
Engine speed sensing power control
Emergency engine stop switch
Automatic idling system
Short cut switch
Safety stop/start function
Adjustable 8inch LCD color monitor
Master electrical disconnect switch
Engine restart prevention circuit
High-capacity halogen lights:
Cab-mounted 2
Frame-mounted 2
Boom-mounted 4
Batteries, 2 x 12 V / 210 Ah
Start motor, 28 V / 6.6 kW
Frame
Access way with handrail
Access way with handrail Full height counterweight 16 100kg
Access way with handrail Full height counterweight 16 100kg Tool storage area
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm)
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm)
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system Summation system
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system Summation system Boom priority
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system Summation system Boom priority Arm priority
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system Summation system Boom priority Arm priority Swing priority
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system Summation system Boom priority Arm priority Swing priority ECO mode fuel saving technology
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system Summation system Boom priority Arm priority Swing priority ECO mode fuel saving technology Boom and arm regeneration valves
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system Summation system Boom priority Arm priority Swing priority ECO mode fuel saving technology Boom and arm regeneration valves Swing anti-rebound valves
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system Summation system Boom priority Arm priority Swing priority ECO mode fuel saving technology Boom and arm regeneration valves Swing anti-rebound valves Boom and arm holding valves
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system Summation system Boom priority Arm priority Swing priority ECO mode fuel saving technology Boom and arm regeneration valves Swing anti-rebound valves Boom and arm holding valves Multi-stage filtering system
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system Summation system Boom priority Arm priority Swing priority ECO mode fuel saving technology Boom and arm regeneration valves Swing anti-rebound valves Boom and arm holding valves Multi-stage filtering system Cylinder cushioning
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system Summation system Boom priority Arm priority ECO mode fuel saving technology Boom and arm regeneration valves Swing anti-rebound valves Boom and arm holding valves Multi-stage filtering system Cylinder cushioning Cylinder cushioning Cylinder contamination seals
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system Summation system Boom priority Arm priority ECO mode fuel saving technology Boom and arm regeneration valves Swing anti-rebound valves Boom and arm holding valves Multi-stage filtering system Cylinder cushioning Cylinder cushioning Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve
Access way with handrail Full height counterweight 16 100kg Tool storage area Side walk-way Under cover (heavy duty 4.5mm) Punched metal anti-slip plates Undercarriage Mechanically retractable track gauge Hydraulic track adjusters Greased and sealed track link Track Guard Under cover (10mm) Hydraulic system Automatic sensing hydraulic system Summation system Boom priority Arm priority ECO mode fuel saving technology Boom and arm regeneration valves Swing anti-rebound valves Boom and arm holding valves Multi-stage filtering system Cylinder cushioning Cylinder cushioning Cylinder contamination seals

b and interior	
licon oil and rubber mounts with spring	
djustable operator seat with heater and joystick control cons	ole
ontrol joysticks with semi-long	
eater & air-conditioner, automatic	
exible antenna	
adio with CD player & MP3 player and USB	
ydraulic safety lock lever	
ab, all-weather sound suppressed, includes:	
up holders	
oor locks	
nted glass	
oor mat	
orn	
arge storage area	
ull-up type front window	
emovable lower windshield	
eat belt	
afety glass	
un screens, front, roof, rear	
/indshield wiper with intermittent feature	
laster key	
ack shoes	
ack shoes, 650 mm with double grouser	
gging equipment	
oom: ME 7.25 m	
rm: ME 2.95 m	
lanual centralized lubrication	

OPTIONAL EQUIPMENT		
Engine		
Block heater: 120 V, 240 V		
Dual stage oil bath pre-cleaner		
Diesel coolant heater, 10 Kw, 12 Kw		
Water separator with heater		
Extra water separator		
Auto engine shutdown		
Fuel filler pump, 100 l/min with automatic shut-off		
Reversible cooling fan		
Others		
Auto fire suppression system		
Electric		
Extra lights :		
Cab-mounted 3 (front 2, rear 1)		
Boom-mounted 4		
Frame-mounted 2		
Counterweight-mounted 1		
Travel alarm		
Anti-theft system		
Rotating warning beacon		
Frame		
Full height counterweight, removal type 16 100kg		

OPTIONAL EQUIPMENT	OPTIONAL EQUIPMENT
Undercarriage	Cab and interior
Full track guard	One-piece fixed front windshield
Hydraulic system	Fabric seat without heater
Hose rupture valve: boom, arm	Fabric seat with heater and air suspension
Straight travel pedal	Control joysticks with 4 switches each
Bucket conflux	Control joysticks with 3 switch & 1 propotional
Boom float function with HRV	Pilot control pattern change
Boom float function without HRV	Opening top hatch
Hydraulic piping:	Front rain shield
Work tool management system (up to 20 programmable	Falling object guard (FOG)
memories)	Frame-mounted
Hammer & shear, 1 and 2 pump flow	Cab-mounted
Hammer & shear: variable flow and pressure pre-setting	Cab-mounted falling object protective structure (FOPS)
Additional return filter	Smoker kit (ashtray and lighter)
Slope & rotator	Safety net for front window
Grapple	Sunlight protection, roof (steel)
Quick coupler piping	Lower wiper with intermittent control
Hydraulic oil, ISO VG 32, 68	Cleaning air gun
Hydraulic oil, biodegradable 46	Rear view camera
Hydraulic oil, longlife oil 32, 46, 68	Side view camera
Hydraulic hose for Artic	Volvo smart view
	Dig assist
	On board weighting system
	Specific key
	Track shoes
	750/900mm track shoes with double grousers
	Digging equipment
	Boom: 8.4m
	Arm: 3.7m
	Service
	Tool kit, daily maintenance
	Tool kit, full scale

SELECTION OF VOLVO OPTIONAL EQUIPMENT

X1/X3 quick fit auxiliary lines



Volvo Smart View



HEPA cab air filter



Coolant heater



Boom float

Special tool for retractable frame Automatic lubrication system



Dig Assist, powered by Volvo Co-Pilot



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.



Volvo Construction Equipment