

Volvo Excavators 91.3-94.8 t / 201,227-209,020 lb 602 hp

EC950F

Volvo Construction Equipment



Welcome to our world

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.







Productivity















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 which can be removed for ease of transportation.



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.



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.



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 and Heavy-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.

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.



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.



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) and H (Heavy).



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.





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.

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.



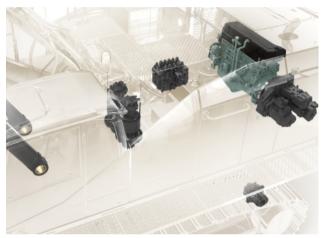
Wear-resistant digging

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

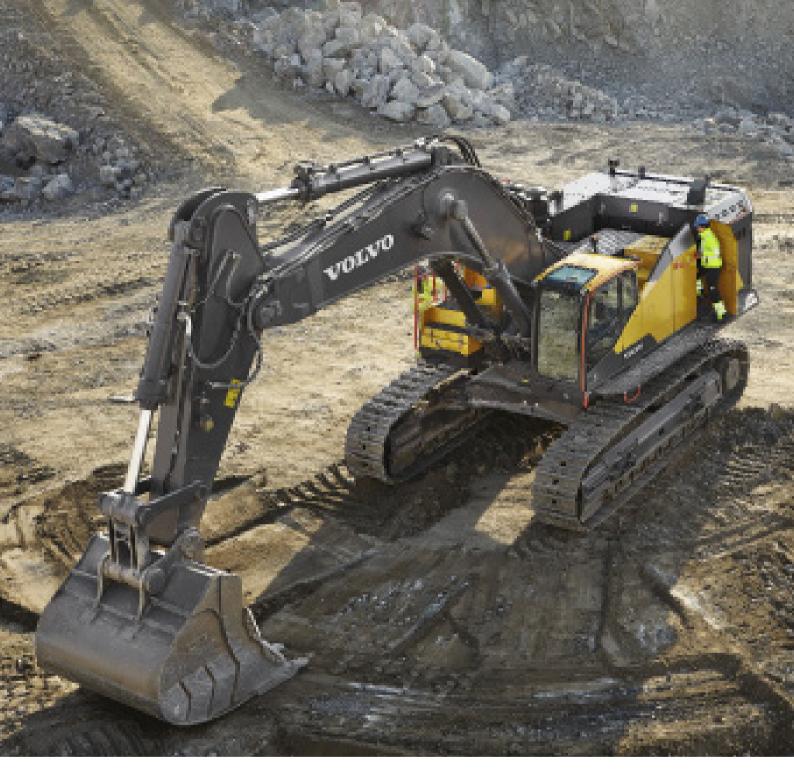
Count on a solid EC950F with Volvo's high-quality components, designed to work in perfect harmony with the machine. Volvo's commitment to rigorous testing in its development process ensures the production of well-engineered components, purpose-built for the job, and proven to be reliable in the toughest 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 the ultimate in visibility, Volvo Smart View provides a 360° birdseye-view around the machine, displayed on the in-cab monitor.





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.

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.



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.



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.



24-hours parts delivery guarantee

Maintain productivity and machine uptime with our range of readily available part, all backed by Volvo warranty – with 24-hour parts delivery guarantee. Only by using Genuine Volvo Parts, can you protect your investment, extend machine life and guarantee long-lasting performance.





EASY MACHINE MONITORING

Maximize machine uptime and reduce repair costs with ActiveCare Direct. 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.

Go big

Robust protection

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

Versatility

- General Purpose and Heavy-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

The operator's choice

- Spacious and quiet cab, ergonomic controls
- Boom-swing priority function
- Dig Assist, powered by Volvo Co-Pilot (Option)
- Straight travel pedal
- Pilot control pattern change



Solid stability

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

- High-visibility handrails
- Anti-slip plates
- Central and surrounding walkways
- Volvo Smart View

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 EPA Tier 4 Final 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 (r/s)	1,650 (27.5)
Net, ISO 9249/SAE J1349	kW (hp)	449 (602)
Gross, ISO 14396/SAE J1995	kW (hp)	450 (603)
Max torque	Nm (ft lbf)	2,700 (1,991)
at engine speed	r/min (r/s)	1,400 (23.3)
No. of cylinders		6
Displacement	I (in³)	16.1 (982)
Bore	mm (in)	144 (5.67)
Stroke	mm (in)	165 (6.5)

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

orianio aro otarradiai		
Track shoes		51 x 2
Link pitch	mm (in)	260.4 (10.25)
Shoe width, double grouser	mm (in)	650/750/900 (26/30/35)
Bottom rollers		9 x 2
Top rollers		3 x 2

The operator's cab has easy access via a wide door opening.

The cab is supported on hydraulic dampening mounts to reduce shock and

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 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 independently to accommodate the operator. The seat has nine different 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 (ft lbf)	343 (252,983)		

Travel System

Drive device: 2 step Hydraulic motor with 2 stage planetary reduction gears on each track

Framework: All-welded robust torsion box frame. Track Gauge: Retractable.

Max. drawbar pull	kN (lbf)	565 (127,008)
Max. travel speed (low)	km/h (mi/h)	2.8 (1.7)
Max. travel speed (high)	km/h (mi/h)	4.4 (2.7)
Gradeability	0	33

Sound Level		
Sound pressure level in cab according	to ISO 6396	
L_pA	dB	72
External sound level according to ISO 2000/14/EC	6395 and EU Noise Directive	
L_{WA}	dB	109

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

The following important functions are included in the system:

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

Boom priority: Gives priority to the boom operation, for fast raising when

loading or performing deep excavation. **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 Regeneration system: Prevents cavitation and provides flow to other movements curing simultaneous operations for maximum productivity

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

Main pump. Type: 3 x variable displacement axial piston pumps

Maximum flow	l/min (gal/min)	2 x 515; 1 x 147 (2 x 136; 1 x 38.8)
Pilot pump. Type: Gear pump		
Maximum flow	l/min (gal/min)	1 x 37.8 (1 x 10)
Relief value setting pressure		
Implement	MPa (psi)	34.3 (4,980)
Travel circuit	MPa (psi)	34.3 (4,980)
Slew circuit	MPa (psi)	28.4 (4,130)
Pilot circuit	MPa (psi)	3.9 (570)

Hydraulic Motors

Travel: Variable displacement axial piston motors

Slew: Fixed displacement axial piston motor with mechanical brake

Hydraulic Cylinders

Mono boom		2
Bore x Stroke	ø x mm (ø x in)	215 x 1 930 (8.5 x 76)
Arm		1
Bore x Stroke	ø x mm (ø x in)	240 x 2 180 (9.4 x 85.8)
Bucket		1
Bore x Stroke	ø x mm (ø x in)	200 x 1 500 (7.9 x 59.1)
ME Bucket		1
Bore x Stroke	ø x mm (ø x in)	230 x 1 500 (9.1 x 59.1)

Service Refill

Fuel tank	l (gal)	1 265 (334)
Hydraulic system, total	l (gal)	890 (235)
Hydraulic tank	l (gal)	460 (122)
Engine oil	l (gal)	52 (14)
Engine coolant	l (gal)	74 (20)
Slew reduction unit	l (gal)	2 x 6.5 (2 x 1.7)
Travel reduction unit	l (gal)	2 x 25 (2 x 6.6)
PTO gear box	l (gal)	1 x 9.2 (1 x 2.4)
Urea	l (gal)	95 (25)

GROUND PR	ESSURE	<u> </u>													
EC950F															
			E	Boom 7.25 Bu), Arm 2.9 n³ (6.15 ye),	Boom 8.4 m (27'7"), Arm 3.7 m (12'2"), Bucket 3.9 m³ (5.1 yd³)						
				Counter	weight 16	,200kg (3	5,715 lb)			Counter	weight 16	,200kg (3	5,715 lb)		
Description	Shoe	width	Operatir	ng weight	Ground	pressure	Overal	l width	Operatin	g weight	Ground	pressure	Overall wi	dth	
Description	mm	in	kg	lb	kPa	PSI	mm	in	kg	lb	kPa	PSI	mm	in	
	650	26	91,275	201,227	123.8	18	4,298	169	92,850	204,699	125.9	18.3	4,298	169	
	750	30	92,115	203,079	108.3	15.7	4,300	169	93,690	206,551	110.1	16	4,300	169	
	900	36	93,235	205,548	91.3	13.2	4,450	175	94,810	209,020	92.9	13.5	4,450	175	
			В	Boom 8.4 n Bu		'), Arm 5. m³ (5.1 yd		Boom 10 m (32'10"), Arm 5.5 m (18'1"), Bucket 3.9 m³ (5.1 yd³)							
Double				Counterv	veight 16,	200 kg (3	5,715 lb)		Counterweight 16,200 kg (35,715 lb)						
grouser	Shoe	width	Operatir	ng weight	Ground	pressure	Overal	l width	Operatin	g weight	Ground pressure		Overall width		
	mm	in	kg	lb	kPa	PSI	mm	in	kg	lb	kPa	PSI	mm	in	
	650	26	93,690	206,590	127.1	18.4	4,298	14'1"	94,693	208,800	128.4	18.6	4,298	14'1"	
	750	30	94,530	208,440	111.1	16.1	4,300	14'1"	95,533	210,650	112.3	16.3	4,300	14'1"	
	900	36	95,650	210,910	93.7	13.6	4,450	14'7"	96,653	213,120	94.7	13.7	4,450	14'7"	

BUCKET SELECTION GUIDE																			
									Recommended maximum material density (kg/m³ / lb/yd³)										
			Capa	acity	Cutting	y width	Tip r	adius	We	ight	Teeth			EC9	50F				
Bucket type										7.25m (23'9") ME Boom		8.4m (27'7") GP Boom			oom				
			I	yd ³	mm	in	mm	in	kg	lb	EA	M2.95m (9'8") Arm			95m) Arm	G3.7m (12'2") Arm			
			3,900	5.1	1,970	77.59	2,221	1,970	4,321	9,526	5	1,800	3,034	1,800	3,034	1,800	3,034		
			4,700	6.15	2,000	78.7	2,348	2,000	4,648	10,247	5	1,800	3,034	1,800	3,034	1,800	3,034		
		GP	5,400	7.06	2,280	89.8	2,348	2,280	4,992	11,005	5	1,800	3,034	1,800	3,034	1,700	2,865		
		GP	6,000	7.85	2,350	92.5	2,446	2,350	5,233	11,537	5	1,800	3,034	1,700	2,865	1,500	2,528		
			6,500	8.5	2,300	90.6	2,566	2,300	5,277	11,634	5	1,800	3,034	1,500	2,528	1,300	2,191		
Direct fit			7,000	9.16	2,450	96.5	2,566	2,450	5,583	12,308	6	1,800	3,034	1,400	2,360	1,200	2,023		
Buckets	V4		3,900	5.1	1,970	77.59	2,279	1,970	5,299	11,682	5	2,100	3,540	1,800	3,034	1,800	3,034		
without quick			4,700	6.15	2,000	78.7	2,404	2,000	5,722	12,615	5	2,100	3,540	1,800	3,034	1,800	3,034		
coupler					5,200	6.8	2,200	86.6	2,404	2,200	5,999	13,226	5	2,100	3,540	1,800	3,034	1,500	2,528
		HD	5,400	7.06	2,280	89.8	2,404	2,280	6,137	13,530	5	2,100	3,540	1,700	2,865	1,500	2,528		
			5,600	7.32	2,350	92.5	2,404	2,350	6,261	13,803	5	2,100	3,540	1,600	2,697	1,400	2,360		
			6,000	7.85	2,350	92.5	2,505	2,350	6,198	13,664	5	2,100	3,540	1,500	2,528	1,300	2,191		
			6,500	8.5	2,300	90.6	2,620	2,300	6,264	13,810	5	2,000	3,371	1,400	2,360	1,200	2,023		
	٧6	EDX	6,500	8.5	2,750	108.3	2,803	2,750	6,986	15,401	5	1,800	3,034	1,300	2,191	-	-		

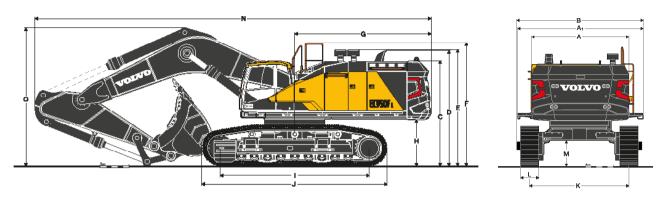
Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application. (In case of using bigger bucket than regional standard MRS, consultation with R&D is highly recommended) The recommendations are given as a guide only, based on typical operation conditions.

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

Maximum materal density								
kg/m³	lb/yd³							
1,200~1,300	2,000~2,200	Coal, Caliche, Shale						
1,400~1,600	2,300~2,700	Wet earth and clay, Limestone, Sandstone						
1,700~1,800	2,800~3,100	Granite, Wet sand, Well blasted rock						
1,900~	> 3,200~	Wet mud, Iron ore						

X : Not recommended

DIMENSIONS



Des	cription	U	nit					EC9	50F				
Boo	m	m	ft in	7.25	23'9"	8.4	27'7"	8.4	27'7"	8.4	27'7"	10	32'10"
Arm		m	ft in	2.95	9'8"	2.95	9'8"	3.7	12'2"	5.5	18'1"	5.5	18'1"
Α	Overall width of superstructure	mm	ft in	3,485	11'5"	3,485	11'5"	3,485	11'5"	3,485	11'5"	3,485	11'5"
A ₁	Overall width of superstructure (incl. walkway)	mm	ft in	4,505	14'9"	4,505	14'9"	4,505	14'9"	4,467	14'8"	4,467	14'8"
В	Overall width (step to walkway)												
	650mm / 26" shoe	mm	ft in	4,515	14'10"	4,515	14'10"	4,515	14'10"	4,515	14'10"	4,515	14'10"
	750mm / 30" shoe	mm	ft in	4,515	14'10"	4,515	14'10"	4,515	14'10"	4,515	14'10"	4,515	14'10"
	900mm / 36" shoe	mm	ft in	4,520	14'10"	4,520	14'10"	4,520	14'10"	4,520	14'10"	4,520	14'10"
С	Overall height of cab	mm	ft in	3,655	11'12"	3,655	11'12"	3,655	11'12"	3,655	12'0"	3,655	12'0"
	Overall height of cab, FOG	mm	ft in	3,760	12'4"	3,760	12'4"	3,760	12'4"	3,760	12'4"	3,760	12'4"
D	Overall height of tail pipe	mm	ft in	3,990	13'1"	3,990	13'1"	3,990	13'1"	3,990	13'1"	3,990	13'1"
Ε	Overall height of precleaner	mm	ft in	4,025	13'2"	4,025	13'2"	4,025	13'2"	4,025	13'2"	4,025	13'2"
	Overall height of oil bath	mm	ft in	4,180	13'9"	4,180	13'9"	4,180	13'9"	4,180	13'9"	4,180	13'9"
F	Overall height of guardrail	mm	ft in	4,265	13'12"	4,265	13'12"	4,265	13'12"	4,263	14'0"	4,263	14'0"
G	Tail swing radius	mm	ft in	4,700	15'5"	4,700	15'5"	4,700	15'5"	4,700	15'5"	4,700	15'5"
Н	Counterweight clearance *	mm	ft in	1,620	5'3"	1,620	5'3"	1,620	5'3"	1,623	5'4"	1,623	5'4"
1	Tumbler length	mm	ft in	5,120	16'10"	5,120	16'10"	5,120	16'10"	5,120	16'10"	5,120	16'10"
J	Track length	mm	ft in	6,380	20'11"	6,380	20'11"	6,380	20'11"	6,380	20'11"	6,380	20'11"
K	Track gauge(extended)	mm	ft in	3,550	11'8"	3,550	11'8"	3,550	11'8"	3,550	11'8"	3,550	11'8"
	Track gauge (retracted)	mm	ft in	2,980	9'9"	2,980	9'9"	2,980	9'9"	2,980	9'9"	2,980	9'9"
L	Shoe width	mm	ft in	650	2'2"	650	2'2"	650	2'2"	650	2'2"	650	2'2"
M	Min. ground clearance *	mm	ft in	915	3'0"	915	3'0"	915	3'0"	915	3'0"	915	3'0"
Ν	Overall length												
	With Boom/Arm/Bucket	mm		13,615		,		,		,		,	
	With Boom/Arm	mm	ft in	14,420	47'4"	14,780	48'6"	14,600	47'11"	14,390	47'3"	16,050	52'8"
	With Boom/Arm, Arm pin removed	mm		13,420		,				,			
	With Boom	mm	ft in	11,800	38'9"	12,970	42'7"	12,970	42'7"	12,970	42'7"	14,620	48'0"
0	Overall height of boom												
	With Boom/Arm/Bucket (with Auxiliary lines)	mm	ft in	4,970		4,890		4,960		5,980	19'7"	5,795	19'0"
	With Boom/Arm (with Auxiliary lines)	mm	ft in	4,790	15'9"	4,580		4,700	15'5"	5,660	18'7"	5,420	17'9"
	With Boom/Arm, Arm pin removed (with Auxiliary lines)	mm	ft in	4,460	14'8"	,	14'9"	4,300	14'1"	4,950	16'3"	5,010	16'5"
	With Boom (with Auxiliary lines)	mm	ft in	3,890	12'9"	3,810	12'6"	3,810	12'6"	3,810	12'6"	3,970	13'0"
	With Boom/Arm/Bucket	mm	ft in	4,840		,	15'5"	4,780	15'8"	5,890	19'4"	5,700	18'8"
	With Boom/Arm	mm	ft in	4,540		4,400	14'5"	4,480	14'8"	5,550	18'3"	5,320	17'5"
	With Boom/Arm, Arm pin removed	mm	ft in	4,290	14'1"	4,170	13'8"	4,280	14'1"	4,760	15'7"	4,930	
	With Boom	mm	ft in	3,620	11'11"	3,720	12'2"	3,720	12'2"	3,720	12'2"	3,880	12'9"
Р	Width of Track (retracted)												
	650mm / 26" shoe	mm	ft in					3,630				3,630	
	750mm / 30" shoe	mm		3,920									
	900mm / 36" shoe	mm	ft in	4,070	13'4"	4,070	13'4"	4,070	13'4"	4,070	13'4"	4,070	13'4"
	Width of Track (extended)												
	650mm / 26" shoe	mm	ft in	4,200		,				4,200		4,200	
	750mm / 30" shoe	mm	ft in	4,300	14'1"	4,300	14'1"	4,300	14'1"	4,300	14'1"	4,300	14'1"
	900mm / 36" shoe	mm	ft in	4,450	14'7"	4,450	14'7"	4,450	14'7"	4,450	14'7"	4,450	14'7"
* Wi	th shoe grouser												

Boom o	Boom cylinder												
Length Height Width Weight													
mm ft in		mm	ft in	mm	ft in	kg	lb						
3,000	9'10"	600	2'0"	480	1'7"	1,800	3,968						

Hose of Boom cylinder

Len	ngth	We	Q'ty	
mm	ft in	kg	lb	EA
1,250	4'1"	5	11.0	2
1,170	3'10"	4	8.8	2

Counterweight

Counte	rweign	ι					
Len	gth	Hei	ght	Wi	dth	We	ight
mm	ft in	mm	ft in	mm	ft in	kg	lb
3,485	11'5"	2,150	7'1"	830	2'9"	16,100	35,494

Shoes

Shoe width		Len	gth	Height Over			Overall width		Weight / unit	
mm	ft in	mm	ft in	mm	ft in	mm	ft in	kg	lb	
650	2'2"	6,380	20'11"	1,445	4'9"	1,085	3'7"	12,930	28,506	
750	2'6"	6,380	20'11"	1,445	4'9"	1,085	3'7"	13,300	29,321	
900	2'11"	6,380	20'11"	1,445	4'9"	1,160	3'10"	13,860	30,556	

Superstructure

Len	gth	Height o	f tail pipe	Wic	lth*	Weight	
mm	mm ft in mm		ft in	mm	ft in	kg	lb
6,600	21'8"	3,077	10'1"	3,475	11'5"	45,000	99,000

^{*}Upper structure rotated by 90deg (across)

Basic machine (without counterweight)

Shoe width		Len	gth	Height of tail pipe		Overall width (retracted)		Weight		
mm	ft in	mm	ft in	mm	ft in	mm	ft in	kg	lb	
650	2'2"	7,475	24'6"	3,990	13'1"	3,685	12'1"	52,520	115,787	
750	2'6"	7,475	24'6"	3,990	13'1"	3,685	12'1"	53,270	117,440	
900	2'11"	7,475	24'6"	3,990	13'1"	3,690	12'1"	54,390	119,909	

Superstructure, including UC and Boom, excluding CWT

Boom	Shoe	width	Len	gth	We	ight
Boom	mm	mm ft in mm ft in kg		kg	lb	
	650	2'2"	11,332	37'2"	66,655	144,770
7.25 m / 23'9"	750	2'6"	11,332	37'2"	66,490	146,610
	900	2'11"	11,332	37'2"	67,610	149,080
	650	2'2"	12,555	41'2"	66,120	145,790
8.4 m / 27'7"	750	2'6"	12,555	41'2"	66,960	147,650
	900	2'11"	12,555	41'2"	68,080	150,020
	650	2'2"	14,220	46'8"	66,816	147,303
10 m / 32'10"	750	2'6"	14,220	46'8"	67,656	149,156
	900	2'11"	14,220	46'8"	68,776	151,625

Walkway

Lasation	Len	gth	Width		Height		Weight			
Location	mm	ft in	mm	ft in	mm	ft in	kg	lb		
LH front	1,310	4'4"	480	1'7"	65	0'3"	21	46.3		
LH rear	1,545	5'1"	480	1'7"	65	0'3"	25	55.1		
RH front	1,020	3'4"	480	1'7"	65	0'3"	17	37.5		
RH rear	1,115	3'8"	480	1'7"	65	0'3"	18	39.7		
Middle	1,210	3'12"	480	1'7"	65	0'3"	21	46.3		

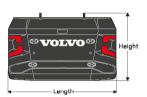
Lower frame with swing ring

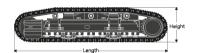
Lengt	th (A)	Widt	h (B)	Hei	ght	We	ight	
mm	ft in	mm	ft in	mm	ft in	kg	lb	
3.500	11'6"	2.520	8'3"	1.095	3'7"	7.925	17.470	

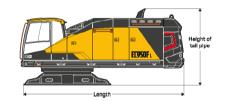
Superstructure w/o swing ring

Leng	th (A)	Height pipe		Wi	dth	Weight		
mm	ft in	mm	ft in	mm	ft in	kg	lb	
6,195	20'4"	2,508	8'3"	3,475	11'5"	20,880	46,030	

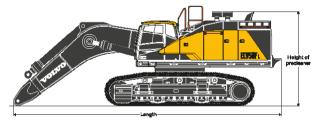




















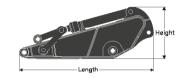


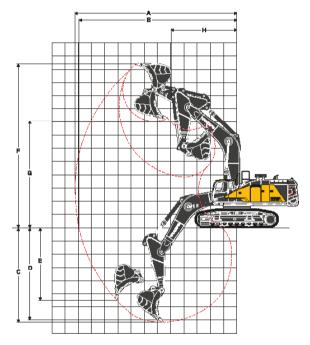
Description	Uı	nit	EC950F							
Boom	m	ft in	7.25	23'9	8.4	27'7"	10	32'10"		
A Length	mm	ft in	7,620	25'0"	8,770	28'9"	10,370	34'0"		
B Height	mm	ft in	2,430	8'0"	2,200	7'3"	2,310	7'7"		
Width	mm	ft in	1,100	3'7"	1,100	3'7"	1,110	3'8"		
Weight	kg	lb	9,455	20,840	9,925	21,880	10,608	23,390		
* Includes cylinder, piping and pin										

Des	cription	Uı	nit			EC9	50F		
Arm		m	ft in	2.95	9'8"	3.7	12'2"	5.5	17'1"
Α	Length	mm	ft in	4,470	14'8"	5,210	17'1"	6,990	22'11"
В	Height	mm	ft in	1,675	5'6"	1,485	4'10"	1,480	4'10"
Wic	dth	mm	ft in	740	2'5"	740	2'5"	740	2'5"
We	ight	kg	lb	5,480	12,080	5,424	11,958	6,144	13,550

^{*} Includes bucket cylinder, linkage and pin







WORKING RANGES													
Description		U	nit					EC9	50F				
Boom		m	ft in	7.25	23'9	8.4	27'7"	8.4	27'7"	8.4	27'7"	10	32'10'
Arm		m	ft in	2.95	9'8"	2.95	9'8"	3.7	12'2"	5.5	18'1"	5.5	18'1"
A Max. digging reach		mm	ft in	12,270	40'3"	13,480	44'3"	14,020	45'12"	15,800	51'10"	17,410	57'1"
B Max. digging reach of	on ground	mm	ft in	11,950	39'2"	13,190	43'3"	13,750	45'1"	15,560	51'1"	17,190	56'5"
C Max. digging depth		mm	ft in	7,120	23'4"	8,330	27'4"	8,950	29'4"	10,860	35'8"	11,880	39'0"
D Max. digging depth (I	mm	ft in	6,980	22'11"	8,180	26'10"	8,820	28'11"	10,760	35'4"	11,785	38'8"	
E Max. vertical wall dig	gging depth	mm	ft in	5,390	17'8"	6,450	21'2"	7,300	23'11"	7,960	26'1"	10,160	33'4"
F Max. cutting height		mm	ft in	12,410	40'9"	13,100	42'12"	13,280	43'7"	14,140	46'5"	15,600	51'2"
G Max. dumping heigh	t	mm	ft in	8,090	26'7"	8,790	28'10"	9,200	30'2"	10,000	32'10"	11,440	37'6"
H Min. front swing rad	ius	mm	ft in	4,970	16'4"	6,010	19'9"	5,910	19'5"	2,000	6'7"	3,350	11'0"
DIGGING FORCES WIT	H DIRECT FIT BUCK	ET											
Bucket radius		mm	ft in	2,348	7'8"	2,348	7'8"	2,221	7'3"	1,954	6'5"	1,954	6'5"
Breakout force -	ISO 6015	kN	lbf	478	107,459	478	107,459	388	87,226	388	87,260	388	87,260
bucket	SAE J1179	kN	lbf	424	95,319	424	95,319	341	76,660	343	77,110	343	77,110
Tearout force -	ISO 6015	kN	lbf	420	94,420	420	94,420	359	80,706	271	60,930	271	30,930
dipper arm	SAE J1179	kN	lbf	408	91,722	408	91,722	350	78,683	267	60,030	267	60,030
Rotation angle, bucket		kN	lbf	170	38,218	170	38,218	170	38,218	170	38,218	170	38,218

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

	Lifting	nook	4.5 m	/ 15 ft	6.0 m	/ 20 ft	7.5 m	/ 25 ft	9.0 m	/ 30 ft	10.5 m	/ 35 ft	12.0 m	/ 39.4 ft	N	lax. reach	1
	relate		Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Max.
	ground		UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	
	9.0 m							*23,410								*20,920	
	30 ft	lb						*51,610								*46,121	
	7.5 m						*23,470	*51,742								*20,070 *44,247	
_	25 ft 6.0 m	lb kg	*27080	*27080	*20 020	*20 020			*22,380	3U 83U						19,430	
Boom: 7.25 m ME	20 ft	lb	,				,	,	*49,339	,					,	42,836	30.7
23'9" ME	4.5 m	kg	0 1,7 17	0.,,, .,					*23,110						*20,420		9.77
Arm:	15 ft	lb			,		,	,	*50,949	,						39,330	
2.95 m ME	3.0 m	kg							*23,900							17,080	
9'8" ME	10 ft	Ιb			*79,102	*79,102	*62,479	57,034	*52,690	43,585					*47,333	37,655	32.5
Shoe:	1.5 m	kg			*37,410	34,720	*29,400	25,060	*24,320	19,310					*22,040	17,010	9.84
650 mm	5 ft	lb					*64,816			42,571					*48,590		32.3
26"	0 m	9	*36,060	,	,	,	,	,	,	,					,	17,660	
CWT:	0 ft	lb		*79,499					*52,668	41,998						38,934	
16,100 kg	-1.5 m	kg	,	,	*34,900		,								,	19,270	
35,500 lb	-5 ft	lb			*76,941			54,013								42,483	
	-3.0 m	kg	,	,	*30,610	,	,	,							,	*21,280 *46,914	
	-4.5 m	lb kg	*28,200		*67,483		52,911	52,911								*18,960	
	-4.5 ft	lb	,	,	*49,758	,										*41,800	
	10.5 m	kg	52,170	02,170	10,700	10,100										*20,930	
	35 ft	lb													,	*46,143	
	9.0 m	kg					*20,980	*20,980	*19,710	*19,710						*19,670	
	30 ft	Ιb					*46,253	*46,253	*43,453	*43,453						*43,365	
	7.5 m	kg					*22,100	*22,100	*19,870	*19,870					*19,040	17,190	10.07
	25 ft	lb					*48,722	*48,722	*43,806	*43,806					*41,976	37,897	33.0
Boom: B.4 m GP	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
	20 ft	lb			*64,882	*64,882			*45,636			34,745				33,885	
27'7" GP	4.5 m	kg							*21,740			15,420			,	14,300	
Arm:	15 ft	lb									*42,285				*40,918		36.1
2.95 m ME	3.0 m	kg					,		,	,	*19,550					13,770	
9'8" ME	10 ft	lb Isa							*49,957 *23,170			33,157 14,730				30,358	
Shoe: 650 mm	1.5 m 5 ft	kg lb					,	,	,	,	*43,343	,			*40,763	,	36.3
26"	0 m	kg			*3/1 670	32 350			*23,050			14,580				14,090	
CWT:	0 ft	lb			*76,434		*61,751	,	,		*42,307	,				31,063	
16,100 kg	-1.5 m	kg			*32,520				*22,030		12,001	02,110				15,080	
35,500 lb	-5 ft	lb			,	,			*48,568							33,246	
	-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 r
	-10 ft	Ιb	*73,877	*73,877	*64,419	*64,419	*53,550	51,588	*43,189	40,080					*39,066	37,456	31.2
	-4.5 m	kg	*27,570	*27,570	*24,190	*24,190	*19,820	*19,820							*16,380	*16,380	8.41 r
	-15 ft	lb	*60,781	*60,781	*53,330		*43,696	*43,696							*36,112	*36,112	
		kg			*15,720	,											6.81
	-20 ft	lb			*34,657	*34,657											22.3
	10.5 m	kg													,	*14,500	
	35 ft	lb Isa							*10 100	*10.100						*31,967	
	9.0 m 30 ft	kg lb							*18,180 *40,080						,	*13,720 *30,247	
	7.5 m	kg									*17,500	16.360				*13,390	
	25 ft	lb							,	,	*38,581	,				*29,520	
Boom:	6.0 m				*27,360	*27,360	*22,580	*22,580			*17,890					*13,400	
Boom: B.4 m GP	20 ft	lb									*39,441					*29,542	
27'7" GP	4.5 m										*18,500					13,110	
Arm:	15 ft	lb			,	,		,	,		*40,785					28,903	
3.7 m GP	3.0 m										*19,110				*14,230	12,640	11.81
12'2" GP	10 ft	Ιb									*42,130					27,866	
Shoe:	1.5 m	kg									*19,500					12,550	
650 mm	5 ft	lb									*42,990					27,668	
26"	0 m	kg									*19,460				,	12,850	
CWT:	0 ft	lb				,					*42,902					28,329	
16,100 kg	-1.5 m										*18,670					13,610	
35,500 lb	-5 ft	lb .									*41,160	31,901				30,005	
	-3.0 m	_	*38,250													15,050	
	-10 ft	lb							*46,341							33,180	
	-4.5 m	_	*32,640													*16,330	
	-15 ft	lb I							*38,559	-38,559						*36,001	
			*24,420													*14,450	
	-20 ft		*53,837	^53,837 (Power B				33,340							"31,85/	*31,857	_∠5,≿

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

quick couple	r from th	ne fol			1						1						
ļ	Lifting		4.5 m			/ 20 ft		/ 25 ft	-	/ 30 ft		/ 35 ft		/ 39.4 ft		1ax. reach	1
ļ	related ground		Along	Across UC	Along	Across	Along UC	Across	Along	Across UC	Along UC	Across UC	Along	Across UC	Along	Across UC	Max.
	10.5 m		UC	UC	UC	UC	00	UC	UC	UC		*11,480	UC	00	*8,440	*8,440	11.1 m
ļ	35 ft	kg lb									*25,309	,			,	*18,607	
ļ	9.0 m	kg											*8,080	*8.080	*8,050		12.0 m
	30 ft	lb									,	,	*17,813	,	*17,747	*17,747	39.4 ft
	7.5 m	kg											*11,890	,	*7,870	*7,870	12.7 m
	25 ft	lb									,	,	*26,213	,	*17,350	*17,350	41.7 ft
	6.0 m	kg							*16,570	*16,570	*15,230				*7,850	*7,850	13.1 m
ļ	20 ft	lb							*36,531	*36,531	*33,576	*33,576	*30,821	28,682	*17,306	*17,306	43.0 ft
Boom:	4.5 m	kg					*20,960	*20,960	*18,100				*14,810		*7,960	*7,960	13.4 m
8.4 m GP	15 ft	lb					*46,209	*46,209	*39,904	*39,904	*35,649	35,120	*32,650	27,955	*17,549	*17,549	44.0 ft
27'7" GP	3.0 m	kg			*29,820	*29,820	*23,480	*23,480	*19,670	19,540	*17,150	15,330	*15,370	12,300	*8,220	*8,220	13.5 m
Arm: 5.5 m ME	10 ft	lb			*65,742	*65,742	*51,764	*51,764	*43,365	43,078	*37,809	33,797	*33,885	27,117	*18,122	*18,122	44.3 ft
18'1" ME	1.5 m	kg			*33,070	*33,070	*25,590	24,480	*21,040	18,670	*18,020	14,760	*15,850	11,940	*8,650	*8,650	13.5 m
Shoe:	5 ft	lb			*72,907	*72,907	*56,416	53,969	*46,385	41,160	*39,727	32,540	*34,943	26,323	*19,070	*19,070	44.3 ft
650 mm	0 m	kg	*21,540	*21,540	*34,830	32,690	*26,980	23,460	*22,010	17,970	*18,620	14,290	*16,100	11,650	*9,270	*9,270	13.2 m
26"	0 ft	lb	*47,488	*47,488	*76,787	72,069	*59,481	51,720	*48,524	39,617	*41,050	31,504	*35,494	25,684	*20,437	*20,437	43.3 ft
CWT: 16,100 kg	-1.5 m	kg	*26,430	*26,430	*35,130	31,920	*27,490	22,810	*22,400	17,490	*18,780	13,960	*15,930	11,460	*10,170	*10,170	12.8 m
35,500 lb	-5 ft	lb	*58,268	*58,268	*77,448	70,371	*60,605	50,287	*49,383	38,559	*41,403	30,776	*35,120	25,265	*22,421	*22,421	42.0 ft
,	-3.0 m	kg	*33,830	*33,830	*34,140	31,650	*27,030	22,510	*22,050	17,250	*18,300	13,810	*14,970	11,450	*11,500	11,160	12.2 m
ļ	-10 ft	lb	*74,582	*74,582	*75,266	69,776	*59,591	49,626	*48,612	38,030	*40,345	30,446	*33,003	25,243	*25,353	24,604	40.0 ft
	-4.5 m	kg	*40,990	*40,990	*31,830	31,780	*25,470	22,530	*20,730	17,250	*16,800	13,890			*13,550	12,470	11.4 m
ļ	-15 ft	lb	*90,367	*90,367	*70,173	70,063	*56,152	49,670	*45,702	38,030	*37,038	30,622			*29,873	27,492	37.4 ft
	-6.0 m	kg	*35,310	*35,310	*27,950	*27,950	*22,460	*22,460	*17,910	17,560					*13,800	*13,800	10.3 m
	-20 ft	lb	*77,845	*77,845	*61,619	*61,619	*49,516	*49,516	*39,485	38,713					*30,424	*30,424	33.8 ft
ļ	-7.5 m	kg	*27,040	*27,040	*21,740	*21,740	*17,040	*17,040							*12,540	*12,540	8.8 m
	-25 ft	lb	*59,613	*59,613	*47,928	*47,928	*37,567	*37,567							*27,646	*27,646	28.9 ft
	10.5 m	kg											*11,770	*11,770	*8,920	*8,920	13.0 m
	35 ft	lb											*25,948	*25,948	*19,665	*19,665	42.7 ft
	9.0 m	kg											*11,890	*11,890	*8,680	*8,680	13.8 m
	30 ft	lb											*26,213	*26,213	*19,136	*19,136	45.3 ft
ļ	7.5 m	kg										,	*12,250	,	,	,	14.4 m
ļ	25 ft	lb											*27,007				47.2 ft
ļ	6.0 m	kg					,	,	*16,030	,	,	*14,120	,	12,400	*8,620	8,200	14.8 m
ļ	20 ft	lb							*35,340				*28,153	27,337	*19,004	18,078	48.6 ft
	4.5 m	kg					,		,	,	*15,040	,	*13,350	11,890	*8,770	7,760	15.0 m
Boom: 10 m GP	15 ft	lb							*38,471			32,761	*29,432		*19,335	17,108	49.2 ft
32'10" GP	3.0 m	kg					,	,	,		*15,930	,	*13,930	,	*9,040	7,490	15.1 m
Arm:	10 ft	lb						*51,059		39,286	*35,120				*19,930	16,513	49.5 ft
5.5 m ME	1.5 m	kg					*24,600	,	*19,830	,	*16,650	,	*14,400		*9,450	7,390	15.1 m
18'1" ME	5 ft	lb					*54,234	,	*43,718	37,170	*36,707	29,608	*31,747	,	*20,834		49.5 ft
Shoe: 650 mm	0 m	kg			,	,	*25,300		,		*17,120	12,910	*14,700	,	*10,030	7,450	14.9 m
26"	0 ft	lb			*41,469	*41,469	*55,777	46,143	*45,107	35,583	*37,743		*32,408		*22,112	16,424	48.9 ft
CWT:	-1.5 m	kg			,	,	*25,280		,	15,690	*17,250	,	*14,720	,	*10,850	7,700	14.5 m
16,100 kg	-5 ft	lb	*40.470	*40.470							*38,030					16,976	47.6 ft
35,500 lb	-3.0 m	_			,	,	,			,	*16,950			,		,	14.0 m
	10.0	Ιb	*40,058	-40,058						_							
1	-10 ft			*0F F 40	*00 040		23.210	20,360	19,250	15,480	16,120		-	10,200	11,080	8,930	
	-4.5 m	kg	*25,540				-	44.000	*40 400	2/100	*25 520	07040	*00 674	00 407	*04 407	10.607	10 C A
	-4.5 m -15 ft	kg Ib	*25,540 *56,306	*56,306	*62,413	*62,413	*51,169										
	-4.5 m -15 ft -6.0 m	kg lb kg	*25,540 *56,306 *30,710	*56,306 *30,710	*62,413 *25,350	*62,413 *25,350	*51,169 *21,050	20,670	*17,530	15,700	*14,530	12,560	*11,540	10,480	*10,740	10,160	12.3 m
	-4.5 m -15 ft -6.0 m -20 ft	kg lb kg lb	*25,540 *56,306 *30,710 *67,704	*56,306 *30,710 *67,704	*62,413 *25,350 *55,887	*62,413 *25,350 *55,887	*51,169 *21,050 *46,407	20,670 45,569	*17,530 *38,647	15,700 34,613	*14,530 *32,033	12,560 27,690	*11,540	10,480	*10,740 *23,678	10,160 22,399	12.3 m 40.4 ft
	-4.5 m -15 ft -6.0 m -20 ft -7.5 m	kg lb kg lb kg	*25,540 *56,306 *30,710 *67,704 *25,190	*56,306 *30,710 *67,704 *25,190	*62,413 *25,350 *55,887 *21,260	*62,413 *25,350 *55,887 *21,260	*51,169 *21,050 *46,407 *17,820	20,670 45,569 *17,820	*17,530 *38,647 *14,720	15,700 34,613 *14,720	*14,530 *32,033 *11,580	12,560 27,690 *11,580	*11,540	10,480	*10,740 *23,678 *10,020	10,160 22,399 *10,020	12.3 m 40.4 ft 11.1 m
	-4.5 m -15 ft -6.0 m -20 ft -7.5 m -25 ft	kg lb kg lb kg lb	*25,540 *56,306 *30,710 *67,704 *25,190 *55,534	*56,306 *30,710 *67,704 *25,190 *55,534	*62,413 *25,350 *55,887 *21,260 *46,870	*62,413 *25,350 *55,887 *21,260 *46,870	*51,169 *21,050 *46,407 *17,820 *39,286	20,670 45,569 *17,820 *39,286	*17,530 *38,647 *14,720	15,700 34,613 *14,720	*14,530 *32,033 *11,580	12,560 27,690 *11,580	*11,540	10,480	*10,740 *23,678 *10,020 *22,090	10,160 22,399 *10,020 *22,090	12.3 m 40.4 ft 11.1 m 36.4 ft
	-4.5 m -15 ft -6.0 m -20 ft -7.5 m	kg lb kg lb kg lb	*25,540 *56,306 *30,710 *67,704 *25,190	*56,306 *30,710 *67,704 *25,190 *55,534 *14,637	*62,413 *25,350 *55,887 *21,260 *46,870 *12,052	*62,413 *25,350 *55,887 *21,260 *46,870 *12,052	*51,169 *21,050 *46,407 *17,820 *39,286 *8,668	20,670 45,569 *17,820 *39,286 *8,668	*17,530 *38,647 *14,720	15,700 34,613 *14,720	*14,530 *32,033 *11,580	12,560 27,690 *11,580	*11,540	10,480	*10,740 *23,678 *10,020 *22,090 *8,205	10,160 22,399 *10,020	12.3 m 40.4 ft 11.1 m 36.4 ft 9.3 m

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 hook		<u> </u>		/ 20 ft		/ 25 ft	9.0 m		-	/ 35 ft	 	/ 39.4 ft		lax. reach	1
	related to ground leve	Along I UC	Across UC	Along UC	Across UC	Along UC	Across UC	Max.								
	9.0 m kg					*23,410	*23,410							*20,920	*20,920	7.70 n
	30 ft lb					*51,610	*51,610							*46,121	*46,121	25.31
	7.5 m kg					*23,470	*23,470							*20,070	*20,070	8.71 n
	25 ft lb					*51,742								*44,247	*44,247	28.6
_	6.0 m kg	*37,080	*37,080	*29,020	*29,020	*24,780	*24,780	*22,380	21,000					*19,970	19,590	9.37 r
Boom:	20 ft lb	*81,747	*81,747	*63,978	*63,978	*54,630	*54,630	*49,339	46,297					*44,026	43,189	30.7
7.25 m ME 23'9" ME	4.5 m kg			*32,710	*32,710	*26,610	*26,610	*23,110	20,500					*20,420	17,990	9.77 r
Arm:	15 ft lb			*72,113		*58,665			45,195					*45,018	39,661	32.11
2.95 m ME	3.0 m kg				,	*28,340		,						*21,470	,	9.92 r
9'8" ME	10 ft lb			*79,102	*79,102	*62,479	57,496	*52,690	43,960					*47,333	37,986	32.5
Shoe:	1.5 m kg			,	,	*29,400	,	,	,					*22,040	,	9.84
750 mm 30"	5 ft lb			,	,			*53,616						*48,590	37,831	32.3
CWT:	0 m kg	*36,060	,	,	,		,	,						*22,100	,	9.52
16,100 kg	Oft lb					*64,728		*52,668	42,373					*48,722		31.21
35,500 lb	-1.5 m kg	*43,770	*43,770	*34,900	34,400	*27,850	24,720							*21,980	19,450	8.951
	-5 ft lb					*61,399								*48,458		
	-3.0 m kg	*37,740	*37,740	*30,610	*30,610	*24,000	*24,000							*21,280	*21,280	8.05
	-10 ft lb	*83,202	*83,202	*67,483	*67,483	*52,911	*52,911							*46,914	*46,914	26.4
	-4.5 m kg	*28,200	*28,200	*22,570	*22,570									*18,960	*18,960	6.71 n
	-15 ft lb	*62,170	*62,170	*49,758	*49,758										*41,800	
	10.5 m kg													*20,930		
	35 ft lb														*46,143	
	9.0 m kg						,	*19,710						,	*19,670	
	30 ft lb							*43,453						*43,365		
	7.5 m kg					,	,	*19,870	,						17,340	
	25 ft lb							*43,806	,						38,228	
Б	6.0 m kg			,	,	*23,880	,	,	,	,	,			*18,710	15,510	
Boom: 8.4 m GP	20 ft lb			*64,882	*64,882	*52,646			,	*41,491	35,053			*41,248	34,194	34.9
27'7" GP	4.5 m kg							*21,740		*19,180	15,560			,	14,440	
Arm:	15 ft lb					*56,989				*42,285				*40,918		36.1 f
2.95 m ME	3.0 m kg					*27,440	,	*22,660		*19,550	15,180			,	13,900	
9'8" ME	10 ft lb						54,256		,	*43,100	,			*40,808		36.5
Shoe:	1.5 m kg					,	23,830	,	,	*19,660	,			*18,490	,	
750 mm 30"	5 ft lb							*51,081	,	*43,343					30,490	
CWT:	0 m kg			,	,	*28,010	,	,	,	*19,190	14,720			*18,440	,	
16,100 kg	0 ft lb			*76,434		*61,751				*42,307	32,452			*40,653		35.4
35,500 lb	-1.5 m kg			,	,	*26,770	,	*22,030	,					,	15,230	
	-5 ft lb				*71,694			*48,568	,					*40,234		33.71
	-3.0 m kg	,	,	,	,	*24,290	,	,	,					*17,720	17,140	9.51 r
	-10 ft lb				,	*53,550		*43,189	40,455					*39,066		31.2 f
	-4.5 m kg	,	,	,	,	*19,820	,								*16,380	
	-15 ft lb	*60,781	*60,781			*43,696	*43,696							*36,112	*36,112	27.6 f
	-6.0 m kg			*15,720	,											6.81 n
	-20 ft lb			*34,657	*34,657											22.31

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

quick couple						1				1							
	Lifting h		4.5 m			/ 20 ft	7.5 m		9.0 m	/ 30 ft	10.5 m		-	/ 39.4 ft		lax. reach	1
	related ground		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	Max.
	10.5 m	kg				- 00	- 00						- 00			*14,500	8.90 m
	35 ft	lb													*31,967	*31,967	
	9.0 m	kg							*18,180	*18.180						*13,720	
	30 ft	lb							*40,080	,					,	*30,247	
	7.5 m	kg									*17,500	16,500				*13,390	
	25 ft	lb								*41,204		36,376				*29,520	
	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 m
Boom:	20 ft	lb			*60,318	*60,318	*49,780	*49,780	*43,453	*43,453	*39,441	35,737			*29,542	*29,542	37.3 ft
8.4 m GP	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 m
27'7" GP	15 ft	lb			*69,159	*69,159	*54,586	*54,586	*46,165	44,203	*40,785	34,789			*30,115	29,167	38.3 ft
Arm: 3.7 m GP	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 m
12'2" GP	10 ft	lb			*76,126	*76,126	*58,841	55,380	*48,722	42,527	*42,130	33,797			*31,372	28,153	38.7 ft
Shoe:	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 m
750 mm	5 ft	lb			*79,190	73,458	*61,553	53,286	*50,486	41,138	*42,990	32,959			*33,312	27,955	38.5 ft
30"	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 m
CWT: 16,100 kg	0 ft	lb			*78,617	72,245	*62,236	52,029	*51,015	40,212	*42,902	32,386			*36,332	28,594	37.7 ft
35,500 lb	-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 m
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-5 ft	lb	*63,537	*63,537	*75,310	72,047	*60,715	51,522	*49,869	39,793	*41,160	32,209			*38,074	30,291	36.1 ft
	-3.0 m	kg	*38,250	*38,250	*31,480	*31,480	*25,720	23,450	*21,020	18,110					*17,040	15,190	10.29 m
	-10 ft	lb	*84,327	*84,327	*69,401	*69,401	*56,703	51,698	*46,341	39,926					*37,567	33,488	33.8 ft
	-4.5 m	kg	*32,640	*32,640	*27,300	*27,300	*22,370	*22,370	*17,490	*17,490					*16,330	*16,330	9.29 m
	-15 ft	lb	*71,959	*71,959	*60,186	*60,186	*49,317	*49,317	*38,559	*38,559					*36,001	*36,001	30.5 ft
	-6.0 m	kg	*24,420	*24,420	*20,710	*20,710	*16,030	*16,030							*14,450	*14,450	7.87 m
	-20 ft	lb	*53,837	*53,837	*45,658	*45,658	*35,340	*35,340							*31,857	*31,857	25.8 ft
	10.5 m	kg									*11,480	,			*8,440	*8,440	11.1 m
	35 ft	lb									*25,309					*18,607	36.4 ft
	9.0 m	kg									,	,	*8,080		*8,050	*8,050	12.0 m
	30 ft	lb									*29,939			*17,813	*17,747	*17,747	39.4 ft
	7.5 m	kg									,	,	*11,890		*7,870	*7,870	12.7 m
	25 ft	lb											*26,213		*17,350	*17,350	41.7 ft
	6.0 m	kg							,		,		*13,980		*7,850	*7,850	13.1 m
Boom:	20 ft	lb					1:00 000						*30,821		*17,306	*17,306	43.0 ft
8.4 m GP	4.5 m	kg					,	,	*18,100	,	,	,	*14,810	,	*7,960	*7,960	13.4 m
27'7" GP	15 ft	lb .			+00.000	+00 000			*39,904				*32,650		*17,549	*17,549	44.0 ft
Arm:	3.0 m	kg			,	,	,	,	*19,670	,	*17,150	,	*15,370		*8,220	*8,220	13.5 m
5.5 m ME	10 ft	lb				*65,742	*51,764 *25,590		*43,365		*18,020		*33,885 *15,850		*18,122 *8,650	*18,122 *8,650	44.3 ft 13.5 m
18'1" ME Shoe:	1.5 m 5 ft	kg			,	*72,907	,	,	*46,385	41,535	*39,727	,	*34,943	,	*19,070	,	44.3 ft
750 mm	0 m	lb kg	*21540	*91540			*26,980		*22,010	18,140	*18,620	14,430	*16,100	11,770	*9,270	*9,270	13.2 m
30"	0 ft	lb		*47,488		72,730	*59,481	52,205	*48,524	39,992	*41,050	31,813	*35,494	,	*20,437	,	
CWT:	-1.5 m	kg				,			*22,400		*18,780		*15,930			*10,170	
16,100 kg	-5 ft	lb	*58,268	,	,		,	,	*49,383			31,085	*35,120	,	*22,421		42.0 ft
35,500 lb	-3.0 m	kg	*33,830						*22,050	17,420	*18,300	13,950	*14,970		*11,500	11,280	12.2 m
	-10 ft	lb	*74,582	,	,	,	*59,591	50,111	*48,612	,	*40,345	,	*33,003	,	*25,353	,	40.0 ft
	-4.5 m	kg	*40,990			,			*20,730		*16,800	14,030	22,000	,507	*13,550		11.4 m
	-15 ft	lb	*90,367	,	,	,		50,133	*45,702	,	*37,038	30,931			*29,873		37.4 ft
	-6.0 m	kg					*22,460			17,730	,	,,,,,				*13,800	
	-20 ft	lb	*77,845	*77,845	*61,619	*61,619	*49,516	,	*39,485	,						*30,424	
	-7.5 m	kg	*27,040	*27,040	,	,	*17,040						_			*12,540	
	-25 ft	lb	,	*59,613			,	*37,567								*27,646	
Notes: 1. Mac																	

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.

quiek coupie	Lifting I		4.5 m	-	6.0 m	/ 20 ft	7.5 m	/ 25 ft	9.0 m	/ 30 ft	10.5 m	/ 35 ft	12.0 m	/ 39.4 ft	N	lax. reach	
	related		Along	Across	Along	Across	Max.										
	ground	level	UC	UC	UC												
	10.5 m	kg											,	,	*8,920	,	
	35 ft	lb													*19,665		42.7 ft
	9.0 m	kg											*11,890	*11,890	*8,680	*8,680	13.8 m
	30 ft	lb													*19,136	*19,136	45.3 ft
	7.5 m	kg										,	*12,250	,		*8,590	14.4 m
	25 ft	lb									*29,277	*29,277	*27,007	*27,007	*18,938	*18,938	47.2 ft
	6.0 m	kg					*18,850	*18,850	*16,030	*16,030	*14,120	*14,120	*12,770	12,520	*8,620	8,300	14.8 m
	20 ft	lb					*41,557	*41,557	*35,340	*35,340	*31,129	*31,129	*28,153	27,602	*19,004	18,298	48.6 ft
	4.5 m	kg					*21,130	*21,130	*17,450	*17,450	*15,040	15,000	*13,350	12,010	*8,770	7,850	15.0 m
Boom:	15 ft	lb					*46,584	*46,584	*38,471	*38,471	*33,157	33,069	*29,432	26,477	*19,335	17,306	49.2 ft
10 m GP 32'10" GP	3.0 m	kg					*23,160	*23,160	*18,780	17,990	*15,930	14,240	*13,930	11,500	*9,040	7,580	15.1 m
Arm:	10 ft	lb					*51,059	*51,059	*41,403	39,661	*35,120	31,394	*30,710	25,353	*19,930	16,711	49.5 ft
5.5 m ME	1.5 m	kg					*24,600	22,060	*19,830	17,030	*16,650	13,570	*14,400	11,040	*9,450	7,480	15.1 m
18'1" ME	5 ft	lb					*54,234	48,634	*43,718	37,545	*36,707	29,917	*31,747	24,339	*20,834	16,491	49.5 ft
Shoe:	0 m	kg			*18,810	*18,810	*25,300	21,150	*20,460	16,310	*17,120	13,050	*14,700	10,670	*10,030	7,550	14.9 m
750 mm 30"	0 ft	lb			*41,469	*41,469	*55,777	46,628	*45,107	35,957	*37,743	28,770	*32,408	23,523	*22,112	16,645	48.9 ft
CWT:	-1.5 m	kg			*23,140	*23,140	*25,280	20,660	*20,610	15,860	*17,250	12,690	*14,720	10,410	*10,850	7,790	14.5 m
16,100 kg	-5 ft	lb			*51,015	*51,015	*55,733	45,547	*45,437	34,965	*38,030	27,977	*32,452	22,950	*23,920	17,174	47.6 ft
35,500 lb	-3.0 m	kg	*18,170	*18,170	*29,580	29,010	*24,580	20,490	*20,230	15,650	*16,950	12,500	*14,360	10,280	*11,210	8,260	14.0 m
	-10 ft	lb	*40,058	*40,058	*65,213	63,956	*54,190	45,173	*44,599	34,502	*37,368	27,558	*31,658	22,663	*24,714	18,210	45.9 ft
	-4.5 m	kg	*25,540	*25,540	*28,310	*28,310	*23,210	20,570	*19,250	15,650	*16,120	12,500	*13,460	10,320	*11,080	9,030	13.3 m
	-15 ft	lb	*56,306	*56,306	*62,413	*62,413	*51,169	45,349	*42,439	34,502	*35,538	27,558	*29,674	22,752	*24,427	19,908	43.6 ft
	-6.0 m	kg	*30,710	*30,710	*25,350	*25,350	*21,050	20,890	*17,530	15,870	*14,530	12,700	*11,540	10,600	*10,740	10,270	12.3 m
	-20 ft	lb	*67,704	*67,704	*55,887	*55,887	*46,407	46,055	*38,647	34,987	*32,033	27,999	*25,441	23,369	*23,678	22,641	40.4 ft
	-7.5 m	kg	*25,190	*25,190	*21,260	*21,260	*17,820	*17,820	*14,720	*14,720	*11,580	*11,580			*10,020	*10,020	11.1 m
	-25 ft	lb	*55,534	*55,534	*46,870	*46,870	*39,286	*39,286	*32,452	*32,452	*25,529	*25,529			*22,090	*22,090	36.4 ft
	-9.1 m	kg	*14,637	*14,637	*12,052	*12,052	*8,668	*8,668							*8,205	*8,205	9.3 m
	-30 ft	lb	*32,270	*32,270	*26,570	*26,570	*19,110	*19,110							*18,090	*18,090	30.5 ft

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

quick couple	Lifting h		4.5 m		6.0 m	/ 20 ft	7.5 m	/ 25 ft	9.0 m	/ 30 ft	10.5 m	/ 35 ft	12.0 m	/ 39.4 ft	N	lax. reach	1
	related	to	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Max.
	ground		UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	
	9.0 m 30 ft							*23,410 *51,610								*20,920 *46,121	
	7.5 m	lb kg						*23,470								*20,070	
	25 ft	lb						*51,742							,	*44,247	
Boom:	6.0 m	kg	*37,080	*37,080	*29,020	*29,020	*24,780	*24,780	*22,380	21,230					*19,970	19,810	9.37 m
7.25 m ME	20 ft	lb	*81,747	*81,747					*49,339						*44,026		30.7 ft
23'9" ME	4.5 m	kg			,		,	,	*23,110	,						18,200	
Arm: 2.95 m ME	15 ft 3.0 m	lb kg							*50,949 *23,900						*45,018	40,124 17,430	32.1ft
9'8" ME	10 ft	lb							*52,690						*47,333	,	32.5 ft
Shoe:	1.5 m	kg			*37,410	35,410	*29,400	25,570	*24,320	19,710					*22,040	17,370	9.84 m
900 mm	5 ft	lb				78,066				43,453						38,294	
36" CWT:	0 m	kg	*36,060												,	18,030	
16,100 kg	0 ft -1.5 m	lb kg	*43,770						*52,668	42,880					*48,722	39,749 19,670	31.2 ft
35,500 lb	-5 ft	lb	*96,496	,				55,116							*48,458	,	
		kg	*37,740													*21,280	
	-10 ft	lb					*52,911	*52,911								*46,914	
	-4.5 m		*28,200	,	,											*18,960	
	-15 ft 10.5 m	lb ka	^62,170	*62,170	^49,/58	^49,/58										*41,800	
	35 ft	kg lb														*46,143	
	9.0 m	kg					*20,980	*20,980	*19,710	*19,710						*19,670	
	30 ft	Ιb					*46,253	*46,253	*43,453	*43,453						*43,365	
	7.5 m	kg					,	,	*19,870	,					,	17,540	
	25 ft	lb			*00.420	*00.420			*43,806			16.000			,	38,669 15,700	
Boom:	6.0 m 20 ft	kg Ib			,		,	,	*45,636	,	*18,820 *41,491	35,472			,	34,613	
8.4 m GP 27'7" GP	4.5 m	kg			0 1,002	01,002			*21,740			15,750				14,610	
Arm:	15 ft	lb									*42,285	34,723			*40,918	,	36.1 ft
2.95 m ME	3.0 m	kg							*22,660			15,370				14,080	
9'8" ME	10 ft	lb									*43,100	33,885			*40,808		36.5 ft
Shoe: 900 mm	1.5 m 5 ft	kg lb					*28,220 *62,214	,	*23,170 *51,081	,	*19,660 *43,343	15,060			,	14,000 30,865	
36"	0 m	kg			*34,670	33.040			*23,050			14,910				14,410	
CWT:	0 ft	lb			*76,434						*42,307				*40,653	,	35.4 ft
16,100 kg	-1.5 m	kg							*22,030							15,420	
35,500 lb	-5 ft	lb	* 00 F40	±00 E40		*71,694			*48,568						*40,234		33.7 ft
	-3.0 m	kg lb	*33,510	,	,	,	,	,	*43,189	,					*39,066	17,360	9.51 m 31.2 ft
	-4.5 m	kg					*19,820		45,165	40,302						*16,380	
	-15 ft	lb		,			*43,696									*36,112	
	-6.0 m	kg			,	*15,720											6.81 m
	-20 ft	lb_			*34,657	*34,657									+44 500	*44.500	22.3 ft
	10.5 m 35 ft	kg lb														*14,500 *31,967	
	9.0 m	kg							*18,180	*18.180						*13,720	
	30 ft	lb							*40,080						,	*30,247	
	7.5 m	kg									*17,500					*13,390	
	25 ft	lb			+07000	+07000	+00 500	+00 500			*38,581					*29,520	
Boom:	6.0 m				,	,	,	,	,	,	*17,890 *39,441					*13,400 *29,542	
8.4 m GP 27'7" GP	20 ft 4.5 m	lb kg									*18,500					13,400	
Arm:	15 ft	lb									*40,785					29,542	
3.7 m GP	3.0 m				*34,530	*34,530	*26,690	25,410	*22,100	19,520	*19,110	15,520			*14,230	12,930	11.81 m
12'2" GP	10 ft	lb									*42,130					28,506	
Shoe: 900 mm	1.5 m										*19,500 *42,990					12,840	
36"	5 ft 0 m	lb kg									*19,460					28,307 13,140	
CWT:	0 ft	lb									*42,902					28,969	
16,100 kg	-1.5 m				*34,160	33,080	*27,540	23,660	*22,620	18,270	*18,670	14,800				13,920	
35,500 lb	-5 ft	lb									*41,160	32,628				30,688	
	-3.0 m		*38,250													15,380	
	-10 ft		*84,327 *32,640													33,907 *16,330	
	-4.5 m	lb	*71,959													*36,001	
							*16,030		,	,						*14,450	
	-6.0 m	ng	21,120												,		

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

quick couple	r from th	e fol	lowing va	alues.											,		
	Lifting h		4.5 m	i		/ 20 ft		/ 25 ft	9.0 m		10.5 m	i		/ 39.4 ft		lax. reach	l T
	related		Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Max.
	ground		UC	UC	UC	UC	UC	UC	UC	UC	*11.490	*11.490	UC	UC	*0.440	*0.440	111
	10.5 m 35 ft										*11,480 *25,309	,			*8,440 *18,607	*8,440	11.1 m 36.4 ft
		lb											*0 000	*0 000	*8,050	*8,050	12.0 m
	9.0 m 30 ft	kg lb											*8,080 *17,813		*17,747	*17,747	39.4 ft
	7.5 m												*11,890		*7,870	*7,870	12.7 m
	25 ft	kg lb									,	,	*26,213		*17,350	*17,350	41.7 ft
	6.0 m	kg							*16 570	*16 570	*15,230				*7,850	*7,850	13.1 m
	20 ft	lb									,	,	*30,821		*17,306	*17,306	43.0 ft
Boom:	4.5 m	kg					*20.960	*20.960	*18,100				*14,810		*7,960	*7,960	13.4 m
8.4 m GP	15 ft	lb						,	-	,	*35,649	,			*17,549	*17,549	44.0 ft
27'7" GP	3.0 m	kg			*29.820	*29.820	*23,480						*15,370		*8,220	*8,220	13.5 m
Arm:	10 ft	lb			,	*65,742	,	,	,	,	*37,809	,	*33,885		*18,122	*18,122	44.3 ft
5.5 m ME 18'1" ME	1.5 m	kg									*18,020				*8,650	*8,650	
Shoe:	5 ft	lb					,	,	,	,	,	,	*34,943		*19,070	,	44.3 ft
900 mm	0 m	kg	*21.540	*21.540							*18,620		*16,100		*9,270		13.2 m
36"	0 ft	lb		-			*59,481				*41,050	,	*35,494		*20,437	,	
CWT:	-1.5 m	kg			,		*27,490			17,890	*18,780		*15,930				12.8 m
16,100 kg 35,500 lb	-5 ft	lb	,		,	,	*60,605	,			*41,403	31,504	*35,120	,	*22,421	,	42.0 ft
33,300 15	-3.0 m	kg		,	,	,	*27,030	,		17,640	*18,300	14,140	*14,970	11,730			12.2 m
	-10 ft	lb	*74,582	*74,582	*75,266	71,297	*59,591	50,750	*48,612	38,889	*40,345	31,173	*33,003	25,860	*25,353	25,199	40.0 ft
	-4.5 m	kg	*40,990	*40,990	*31,830	*31,830	*25,470	23,030	*20,730	17,650	*16,800	14,220			*13,550		11.4 m
	-15 ft	lb	*90,367	*90,367	*70,173	*70,173	*56,152	50,772	*45,702	38,912	*37,038	31,350			*29,873	28,153	37.4 ft
	-6.0 m	kg				*27,950	*22,460	*22,460		*17,910						*13,800	10.3 m
	-20 ft	lb	*77,845	*77,845	*61,619	*61,619	*49,516	*49,516	*39,485	*39,485					*30,424	*30,424	33.8 ft
	-7.5 m	kg	*27,040	*27,040	*21,740	*21,740	*17,040	*17,040							*12,540	*12,540	8.8 m
	-25 ft	lb	*59,613	*59,613	*47,928	*47,928	*37,567	*37,567							*27,646	*27,646	28.9 ft
	10.5 m	kg											*11,770	*11,770	*8,920	*8,920	13.0 m
	35 ft	lb											*25,948	*25,948	*19,665	*19,665	42.7 ft
	9.0 m	kg											*11,890	*11,890	*8,680	*8,680	13.8 m
	30 ft	lb											*26,213	*26,213	*19,136	*19,136	45.3 ft
	7.5 m	kg									*13,280	*13,280	*12,250	*12,250	*8,590	*8,590	14.4 m
	25 ft	lb									*29,277	*29,277	*27,007	*27,007	*18,938	*18,938	47.2 ft
	6.0 m	kg					*18,850	*18,850	*16,030	*16,030	*14,120	*14,120	*12,770	12,680	*8,620	8,420	14.8 m
	20 ft	lb					*41,557	*41,557	*35,340	*35,340	*31,129	*31,129	*28,153	27,955	*19,004	18,563	48.6 ft
	4.5 m	kg					*21,130	*21,130	*17,450	*17,450	*15,040	*15,040	*13,350	12,170	*8,770	7,970	15.0 m
Boom:	15 ft	lb					*46,584	*46,584	*38,471	*38,471	*33,157	*33,157	*29,432	26,830	*19,335	17,571	49.2 ft
10 m GP 32'10" GP	3.0 m	kg					*23,160	*23,160	*18,780	18,220	*15,930	14,430	*13,930	11,660	*9,040	7,710	15.1 m
Arm:	10 ft	lb							*41,403	40,168	*35,120	31,813	*30,710	,	*19,930	16,998	49.5 ft
5.5 m ME	1.5 m	kg						22,340	,	17,250	*16,650	13,760			*9,450	7,600	15.1 m
18'1" ME	5 ft	lb					*54,234	49,251	*43,718	38,030	*36,707	30,336	*31,747		*20,834	16,755	49.5 ft
Shoe:	0 m	kg			,	,	*25,300	,	,	,	*17,120	,	*14,700		,	7,670	14.9 m
900 mm 36"	0 ft	lb			,	*41,469	*55,777	47,267	*45,107	36,464	*37,743		*32,408		*22,112	16,909	48.9 ft
CWT:	-1.5 m	kg			,	,	*25,280	,	*20,610	16,090	*17,250	,	*14,720	,	*10,850	7,920	14.5 m
16,100 kg	-5 ft	lb .			*51,015	*51,015					*38,030					17,461	47.6 ft
35,500 lb	-3.0 m	_									*16,950			-			
				_							*37,368						
		-									*16,120				-		
		lb									*35,538						
											*14,530						
	-20 ft	lb									*32,033		~25,441	23,722			
	-7.5 m	_						-			*11,580				,	*10,020	
		lb							32,432	32,432	*25,529	20,529			*22,090		
	-9.1 m		*32,270				*8,668									*8,205 *18,090	
			"32,270				10,110	10,110							10,090	10,030	30.3 IL

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

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

Full height counterweight 16 100kg, 35,500 lbs

Tool storage area

Side walk-way

Under cover (heavy duty 4.5mm, 0.2")

Punched metal anti-slip plates

Undercarriage

Mechanically retractable track gauge

Hydraulic track adjusters

Greased and sealed track link

Track Guard

Under cover (10mm, 0.4")

Hydraulic system

Automatic sensing hydraulic system

Summation system

Boom priority

Arm priority

Swing priority

Boom-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

Cylinder contamination seals Auxiliary hydraulic valve

Automatic two-speed travel motors

Hydraulic oil, ISO VG 46

Pilot control pattern change

STANDARD EQUIPMENT

Cab and interior

Silicon oil and rubber mounts with spring

Adjustable operator seat with heater and joystick control console

Control joysticks with semi-long

Heater & air-conditioner, automatic

Flexible antenna

Radio with CD player & MP3 player and USB

Hydraulic safety lock lever

Cab, all-weather sound suppressed, includes:

Cup holders

Door locks

Tinted glass

Floor mat

Large storage area

Pull-up type front window

Removable lower windshield

Safety glass

Sun screens, front, roof, rear

Windshield wiper with intermittent feature

Master key

Track shoes

Track shoes, 900 mm, 36" with double grouser

Digging equipment

Boom: 8.4 m, 27'7'

Arm: 2.95 m, 9'8"

Manual centralized lubrication

OPTIONAL EQUIPMENT

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, 26.4 gpm, with automatic shut-off

Reversible cooling fan

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 16,100 kg, 35,500 lbs

Undercarriage

Full track guard

OPTIONAL EQUIPMENT

Hydraulic system

Hose rupture valve: boom, arm

Straight travel pedal

Boom float function with HRV

Boom float function without HRV

Hydraulic piping:

Work tool management system (up to 20 programmable

memories)

Hammer & shear, 1 and 2 pump flow

Hammer & shear: variable flow and pressure pre-setting

Additional return filter

Slope & rotator

Grapple

Quick coupler piping

Hydraulic oil, ISO VG 32, 68

Hydraulic oil, biodegradable 46

Hydraulic oil, longlife oil 32, 46, 68

Hydraulic hose for Artic

OPTIONAL EQUIPMENT

Cab and interior

One-piece fixed front windshield

Fabric seat without heater

Fabric seat with heater and air suspension

Control joysticks with 4 switches each

Control joysticks with 3 switch & 1 propotional

Opening top hatch

Front rain shield

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

Sunlight protection, roof (steel)

Lower wiper with intermittent control

Cleaning air gun

Rear view camera

Side view camera

Volvo smart view

Dig assist

On board weighing system

Specific key

Track shoes

650/750mm, (26"/30") track shoes with double grousers

Digging equipment

Boom: 7.25m, 23'9"

Arm: 3.7m, 12'2

Service

Tool kit, daily maintenance

Tool kit, full scale

Special tool for retractable frame

Automatic lubrication system

Others

Auto fire suppression system

SELECTION OF VOLVO OPTIONAL EQUIPMENT

X1/X3 quick fit auxiliary lines

Fire Suppression System



Reversible cooling fan



Coolant heater





Additional protection options



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.

V O L V O