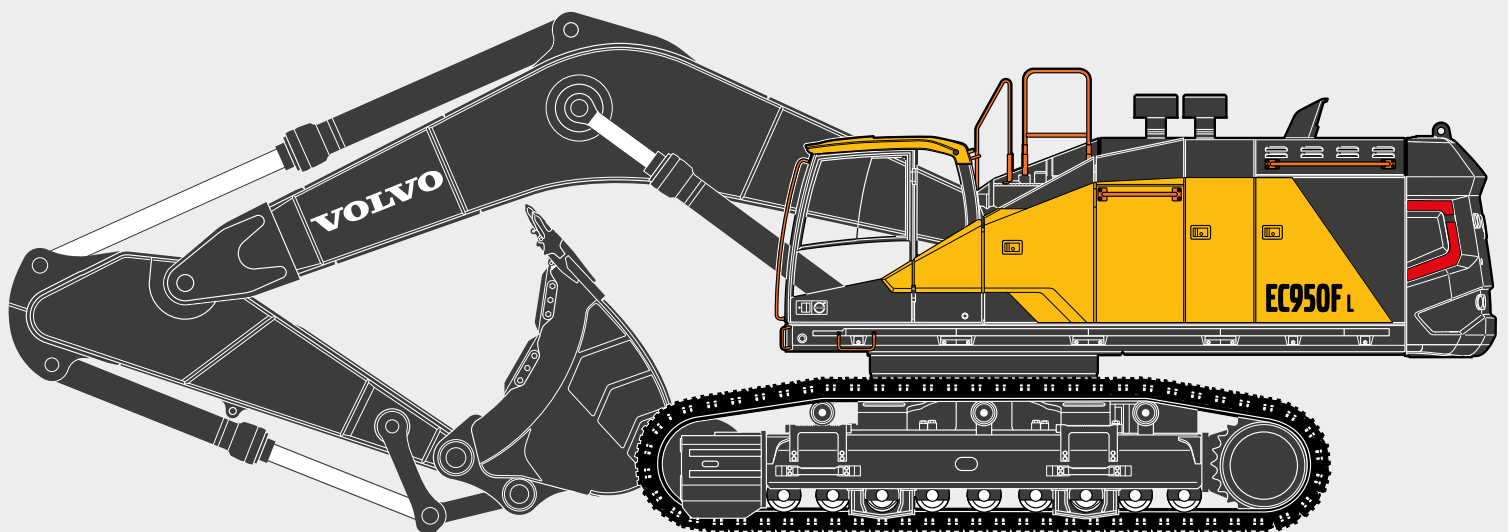




EC950F

Volvo Excavators 91.3-94.8 t 611 hp



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	l	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 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 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	343

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	565
Max. travel speed (low)	km/h	2.8
Max. travel speed (high)	km/h	4.4
Gradeability	°	33

Sound Level

Sound pressure level in cab according to ISO 6396

L _{pA}	dB	74
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External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC

L _{WA}	dB	111
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Hydraulic system

The hydraulic system, also known as the "Automatic Sensing Work Mode", is designed for high-productivity, high-digging capacity, high-maneuvering precision and 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 during 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	2 x 515; 1 x 147
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Pilot pump. Type: Gear pump

Maximum flow	l/min	1 x 37.8
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Relief valve setting pressure

Implement	MPa	34.3
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Travel circuit	MPa	34.3
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Slew circuit	MPa	28.4
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Pilot circuit	MPa	3.9
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Hydraulic Motors

Travel: Variable displacement axial piston motors

Slew: Fixed displacement axial piston motor with mechanical brake

Hydraulic Cylinders

Mono boom		2
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Bore x Stroke	ø x mm	215 x 1 930
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Arm		1
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Bore x Stroke	ø x mm	240 x 2 180
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Bucket		1
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Bore x Stroke	ø x mm	200 x 1 500
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ME Bucket		1
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Bore x Stroke	ø x mm	230 x 1 500
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Service Refill

Fuel tank	l	1 265
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Hydraulic system, total	l	890
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Hydraulic tank	l	460
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Engine oil	l	52
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Engine coolant	l	74
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Slew reduction unit	l	2 x 6.5
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Travel reduction unit	l	2 x 25
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PTO gear box	l	1 x 9.2
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Specifications

GROUND PRESSURE

		EC950F					
		Boom 7.25 m, Arm 2.95m, Bucket 4 515kg(4.7m ³)			Boom 8.4 m, Arm 3.7m, Bucket 4 190kg(3.9m ³)		
		Counterweight 16 200kg			Counterweight 16 200kg		
Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
Double grouser	650	91 275	123.8	4 298	92 850	125.9	4 298
	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

Bucket type			Capacity	Cutting width	Tip radius	Weight	Teeth	Recommended maximum material density (kg/m ³)		
								EC950F		
								7.25m ME Boom	8.4m GP Boom	
			m ³	mm	mm	kg	EA	M2.95m Arm	M2.95m Arm	G3.7m Arm
Direct fit Buckets without quick coupler	V4	GP	3 900	1 970	2 221	4 321	5	1 800	1 800	1 800
			4 700	2 000	2 348	4 648	5	1 800	1 800	1 800
			5 400	2 280	2 348	4 992	5	1 800	1 800	1 700
			6 000	2 350	2 446	5 233	5	1 800	1 700	1 500
			6 500	2 300	2 566	5 277	5	1 800	1 500	1 300
			7 000	2 450	2 566	5 583	6	1 800	1 400	1 200
			3 900	1 970	2 279	5 299	5	2 100	1 800	1 800
	4 700	2 000	2 404	5 722	5	2 100	1 800	1 800		
	5 200	2 200	2 404	5 999	5	2 100	1 800	1 500		
	5 400	2 280	2 404	6 137	5	2 100	1 700	1 500		
	5 600	2 350	2 404	6 261	5	2 100	1 600	1 400		
	6 000	2 350	2 505	6 198	5	2 100	1 500	1 300		
	6 500	2 300	2 620	6 264	5	2 000	1 400	1 200		
	V6	EDX	6 500	2 750	2 803	6 986	5	1 800	1 300	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.

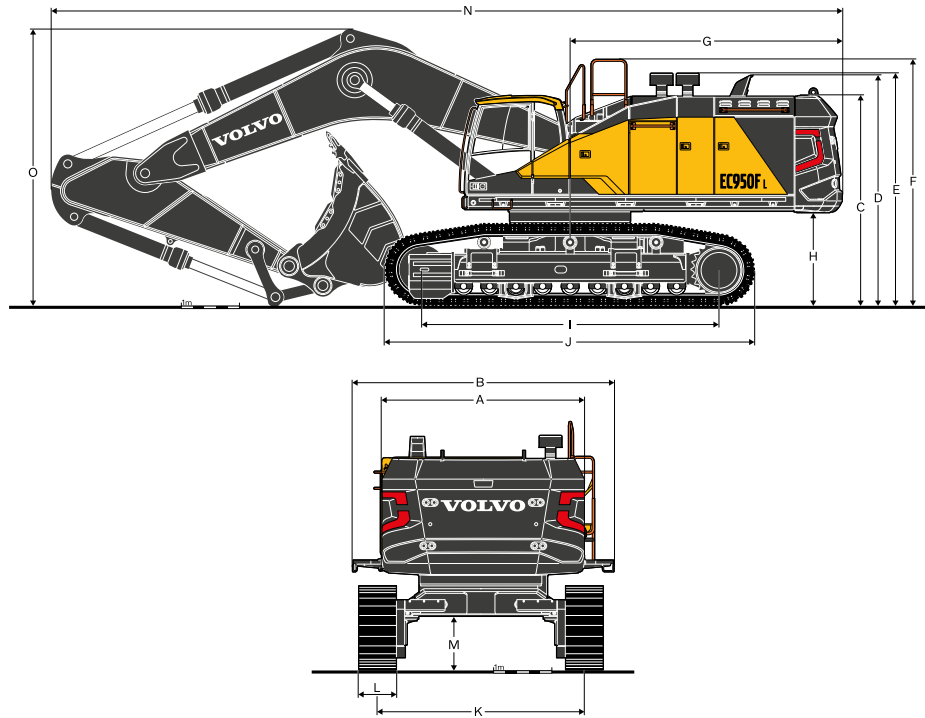
Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

Maximum material density

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

X : Not recommended

DIMENSIONS



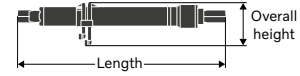
Description	Unit	EC950F		
		7.25	8.4	3.7
Boom	m			
Arm	m	2.95	2.95	3.7
A Overall width of superstructure	mm	3 485	3 485	3 485
B Overall width (incl. walkway)	mm	4 467	4 467	4 467
C Overall height of cab	mm	3 655	3 655	3 655
D Overall height of tail pipe	mm	3 990	3 990	3 990
E Overall height of precleaner	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

Specifications

Boom cylinder

Length	Height	Width	Weight
mm	mm	mm	kg
3 000	600	480	1 800

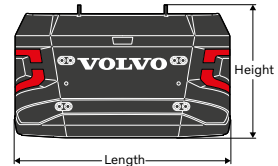


Hose of Boom cylinder

Length	Weight	Q'ty
mm	kg	EA
1 250	5	2
1 170	4	2

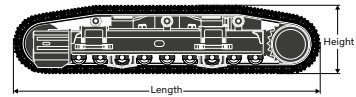
Counterweight

Length	Height	Width	Weight
mm	mm	mm	kg
3 485	2 150	830	16 100



Shoes

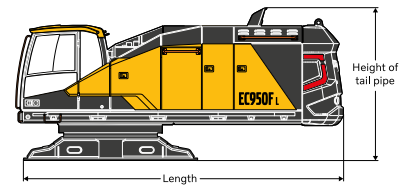
Shoe width	Length	Height	Overall width	Weight / unit
mm	mm	mm	mm	kg
650	6 380	1 445	1 085	12 930
750	6 380	1 445	1 085	13 300
900	6 380	1 445	1 160	13 860



Superstructure

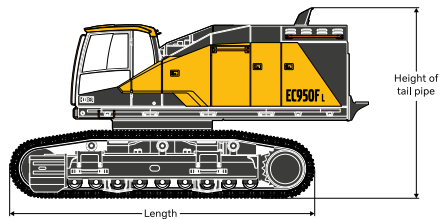
Length	Height of tail pipe	Width*	Weight
mm	mm	mm	kg
6 600	3 077	3 475	42 810

*Upper structure rotated by 90deg (across)



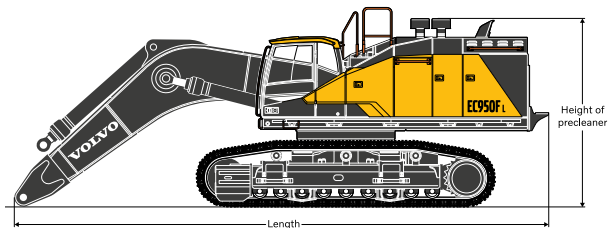
Basic machine (without counterweight)

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



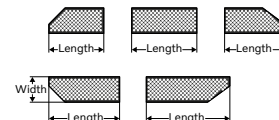
Superstructure, including UC and Boom, excluding CWT

Boom	Shoe width	Length	Weight
7.25	650	11 332	79 150
	750	113 32	79 990
	900	11 332	81 110
8.4	650	12 555	79 600
	750	12 555	80 440
	900	12 555	81 560



Walkway

Location	Length	Width	Height	Weight
LH front	1 310	480	65	21
LH rear	1 545	480	65	25
RH front	1 020	480	65	17
RH rear	1 115	480	65	18
Middle	1 210	480	65	21



Lower frame with swing ring

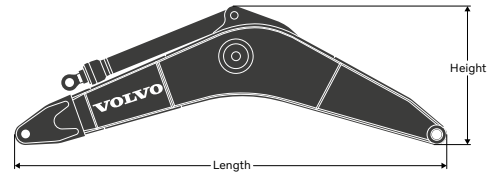
Length (A)	Width (B)	Height	Weight
mm	mm	mm	kg
3 500	2 520	1 095	7 455

Superstructure w/o swing ring

Length (A)	Height of tail pipe(B)	Width	Weight
mm	mm	mm	kg
6 195	2 508	3 475	19 025

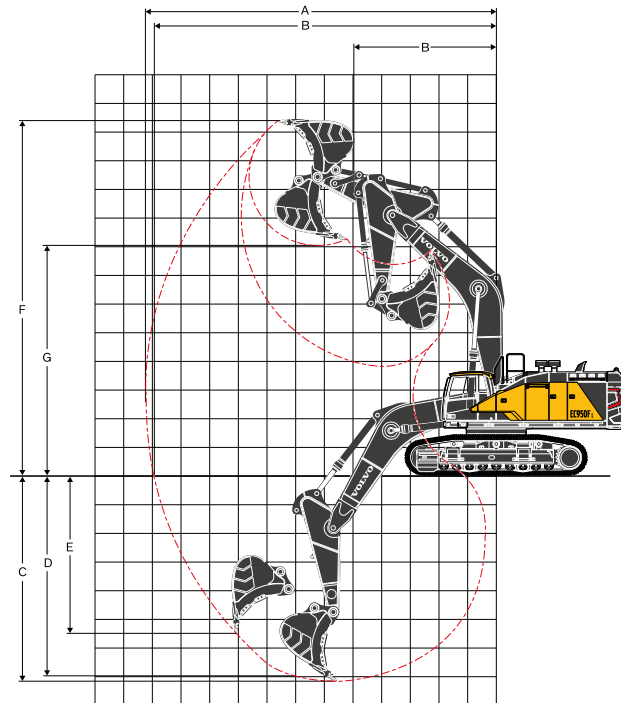
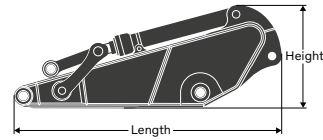
Description	Unit	EC950F	
Boom	m	7.25	8.4
A Length	mm	7 620	8 590
B Height	mm	2 580	2 395
Width	mm	1 100	1 100
Weight	kg	9 580	9 130

* Includes cylinder, piping and pin



Description	Unit	EC950F	
Arm	m	2.95	3.7
A Length	mm	4 470	5 210
B Height	mm	1 675	1 485
Width	mm	835	790
Weight	kg	5 470	5 340

* Includes bucket cylinder, linkage and pin



WORKING RANGES

Description	Unit	EC950F		
Boom	m	7.25	8.4	
Arm	m	2.95	2.95	3.7
A Max. digging reach	mm	12 270	13 480	14 020
B Max. digging reach on ground	mm	11 950	13 190	13 750
C Max. digging depth	mm	7 120	8 330	8 950
D Max. digging depth (l = 2.44 m level)	mm	6 980	8 180	8 820
E Max. vertical wall digging depth	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
H Min. front swing radius	mm	4 970	6 010	5 910

DIGGING FORCES WITH DIRECT FIT BUCKET

Bucket radius		mm	2 348	2 348	2 221	
Breakout force -bucket	Normal	SAE J1179	kN	478	478	388
	Power boost	ISO 6015	kN	424	424	341
Tearout force -dipper arm	Normal	SAE J1179	kN	420	420	359
	Power boost	ISO 6015	kN	408	408	350
Rotation angle, bucket		kN	170	170	170	

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 hook related to ground level	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. reach			
		Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	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			*28 820	*28 820	*34 160	32 390	*27 540	23 160	*22 620	17 880	*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
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	21 000		*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	

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.
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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 hook related to ground level	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. reach				
		Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Max. m		
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 kg	*29 970	*29 970	*38 250	*38 250	*31 480	*31 480	*25 720	23 450	*21 020	18 110				*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	
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	21 230				*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 kg	*29 970	*29 970	*38 250	*38 250	*31 480	*31 480	*25 720	23 740	*21 020	18 340				*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	

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