



Volvo Construction Equipment
Building Tomorrow

EC750E_{HR}

Volvo Excavators



Reaching new heights

PATENTED HYDRAULIC MODULAR JOINTS

- Change from high reach to digging configuration using two-pin hydraulic lock
- Second hydraulic modular joint on extension boom
- Common interface between extension boom and digging boom for quick configuration



EASY TO TRANSPORT

- Retractable undercarriage
- Easy-to-remove track frames
- Ability to self-disassemble/reassemble

AN EXCEPTIONAL HIGH-REACH EXCAVATOR

- Maximum pin height of 36m (118ft)
- 10m (33ft) reach below ground

OUTSTANDING STABILITY

- All-new undercarriage specifically developed for demolition segment – heavier and wider than the larger EC950E undercarriage
- 0.5m (1.6ft) longer and 1m (3.2ft) wider than conventional EC750E
- Impressive track gauge of 4.3m (17.4ft)
- Additional 4 tonnes (4.4 tons) of counterweight
- Total machine weight of 104 tonnes (115 tons)



MULTI-USE DEMOLITION MACHINE

- Work underground and under water
- Offered with two high-reach demolition boom sets and one digging boom set with extension
- Carry a tool of up to 3.6 tonnes (4 tons) when working at maximum height
- Second high-reach configuration has 26m (85ft) maximum pin height for use with larger 5 tonne (5.5ton) tool
- Digging boom set with 4.4m (14.4ft) extension allows for 18m (59ft) pin height while using a tool up to 9.1 tonnes (10 tons)

VISIBLY IN CONTROL

- Large area of laminated glazing for good sight lines of work area
- Comfortable and spacious cab with convenient layout of controls
- Cabin tilts to 30°, reducing operator strain and fatigue
- Dust suppression system and camera on demolition arm as standard – delivering high quality images to in-cab display
- Real-time Total Moment Indicator as standard

ADDED PROTECTION

- Volvo Care Cab with Falling Object Guard (FOG) and side impact protection (SIPS)
- Heavy-duty belly cover and under cover
- Swing ring protection guard
- Added protection on boom and crusher cylinders
- Full support of Volvo aftermarket and dealer network

Volvo EC750E_{HR} in detail

Engine

The latest generation, Volvo engine Tier 4f (Stage IV) emissions certified diesel engine fully meets the demands of the latest, emissions regulations. Featuring Volvo Advanced Combustion Technology (V-ACT), it is designed to deliver superior performance and fuel efficiency. The engine uses precise, highpressure fuel injectors, turbo charger and air-to-air intercooler, and electronic engine controls to optimize machine performance. Air Filter: 3-stage with precleaner. Automatic Idling System: Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise levels.

Engine Tier 4f (Stage IV)	Volvo	D16J
Max power at	r/s / r/min	30 / 1800
Net, ISO 9249/SAE J1349	kW / hp	392 / 533
Gross, ISO 14396/SAE J1995	kW / hp	393 / 534
Max torque at	Nm / r/min	2 570 / 1 350
No. of cylinders		6
Displacement	l	16.1
Bore	mm	144
Stroke	mm	165

Electrical system

High-capacity electrical system that is well protected. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard. Contronics provides advanced monitoring of machine functions and important diagnostic information.

Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	210
Alternator	V / Ah	28 / 80

Swing system

The swing system uses an axial piston motors, driving a planetary gearbox for maximum torque. An automatic holding brake and anti-rebound valve are standard.

Max. slew speed	r/min	7
Max. slew torque	kNm	275.3

Drive

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

Max. drawbar pull	kN	472
Max. travel speed (1st Gear/2nd Gear)	km/h	2.9/4.6
Gradeability	°	33

Undercarriage

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

Track pads		2 x 52
Link pitch	mm	260.4
Shoe width, triple grouser	mm	-
Shoe width, double grouser	mm	650 / 750 / 900
Bottom rollers		2 x 9
Top rollers		2 x 3

* Retractable undercarriage

Service refill capacities

Fuel tank	l	800
AdBlue/DEF tank	l	80
Hydraulic system, total	l	655
Hydraulic tank	l	350
Engine oil	l	52
Engine coolant	l	66
Slew reduction unit	l	2 x 6.8
Travel reduction unit	l	2 x 13.5

Hydraulic system

The new electro-hydraulic system and new MCV (main control valve) use intelligent technology to control on-demand flow for high-productivity, high-digging capacity and excellent fuel consumption.

The following important functions are included in the system:

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

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

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

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

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

Power boost: All digging and lifting forces are increased.

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

Main pump, Type 2 x variable displacement axial piston pumps

Maximum flow	l/min	2 x 450
Pilot pump, Type Gear pump		
Maximum flow	l/min	34.5

Hydraulic motors

Travel: Variable displacement axial piston motor with mechanical brake

Slew: Fixed displacement axial piston motor with mechanical brake

Relief valve setting

Implement	MPa	33.8/35.8
Travel circuit	MPa	33.8
Slew circuit	MPa	26.5
Pilot circuit	MPa	3.9

Base boom cylinder

Quantity		2
Bore	ø mm	230
Stroke	mm	1 697

Tilting Cab

The standard hydraulically tilting cabin tilts up to 30 degrees to enhance visibility and reduce operator fatigue and neck strain on high-reach jobs.

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

The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels. The cab has excellent all-round visibility, especially upward, with a wide front glass and top wiper.

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

Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has 12 different adjustments plus a seat belt for the operator's comfort and safety.

Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1.430 t CO₂-eq

Sound Level

Sound level in cab according to ISO 6396

LpA	dB(A)	72
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External sound level according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 +A1:2009

LwA	dB(A)	108
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MACHINE WEIGHTS

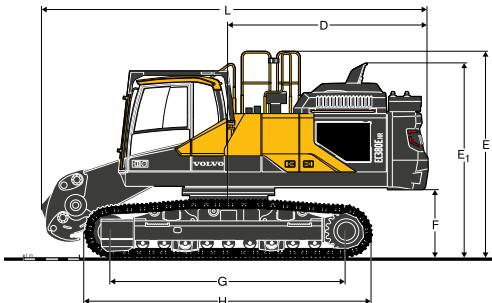
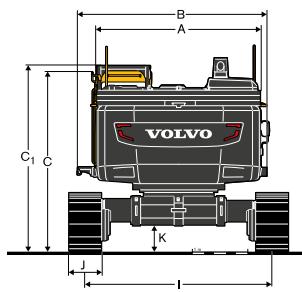
EC750EHR (Hydraulically removable counterweight)			750 mm shoe
			Hydr. retracted undercarriage
At Demolition Equipment			
Base machine (with undercarriage)	kg		79342
Undercarriage (2)	kg		39248
3-piece demolition equipment (incl cradle)	kg		19500
Additional CWT	kg		4186
Total weight	kg		103028
At Digging Equipment			
Base machine (with undercarriage)	kg		79342
Undercarriage (2)	kg		39248
Digging equipment with 3.35m arm (incl cradle)	kg		10880
Boom extension (incl cradle)	kg		6780
Total weight without boom extension	kg		89460
Additional CWT	kg		4186
Total weight with boom extension	kg		101188

GROUND PRESSURE

Description	Shoe width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm
Demolition mode; hydraulically retractable undercarriage, with 20.35 m base boom + demo. boom, 2.6 m inter. arm, 11.55 m demolition arm, 3 600 kg crusher, 15 000 kg counterweight				
Double grouser	650	103 267	136.3	3 795 / 3 700*
	750	104 029	119	3 800
	900	105 172	100.3	3 950
Demolition mode; hydraulically retractable undercarriage, with 13.88 m base boom + demo. boom, 2.6 m inter. arm, 7.41 m demolition arm, 5 000 kg crusher, 15 000 kg counterweight				
Double grouser	650	100 183	132.3	3 795 / 3 700*
	750	100 945	115.5	3 800
	900	102 088	97.3	3 950
Demolition mode; hydraulically retractable undercarriage, with 12.67 m base boom + EXT. boom + demo. boom, 4.2 m digging arm, 9 100 kg tool, 15 000 kg counterweight				
Double grouser	650	107 678	142.2	3 795 / 3 700*
	750	108 440	124.1	3 800
	900	109 583	104.5	3 950
Demolition mode; hydraulically retractable undercarriage, with 8.3 m base boom + digging boom, 4.2 m digging arm, 7 260 kg tool, 11 200 kg counterweight				
Double grouser	650	95 875	126.6	3 795 / 3 700*
	750	96 637	110.6	3 800
	900	97 780	93.2	3 950

* without welding block

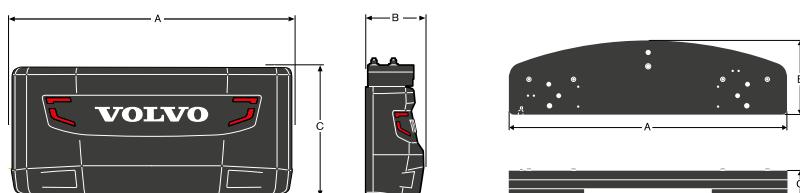
Specifications



DIMENSIONS

Description	Unit	EC750EHR Undercarriage hydraulically retractable
A Width superstructure	mm	3420
B Overall width with walk way (Only left side)	mm	-
Overall width with SIPS(both side) & Cab entrance step(Left side)	mm	3904
Overall width without SIPS(both side) & Cab entrance step(Left side)	mm	-
C Overall height	mm	3484
C1 Overall height (incl. FOG)	mm	3562
D Tail swing radius	mm	4238
E Overall height of Handrail	mm	3941
E Overall height of Diffuser	mm	3790
F Minimum Counterweight clearance *	mm	1480
G Tumbler length	mm	5280
H Track length	mm	6518
I Track gauge (extended)	mm	4300
Track gauge (retracted)	mm	3050
J Shoe width	mm	750
K Min. ground clearance *	mm	563
L Overall length	mm	8728

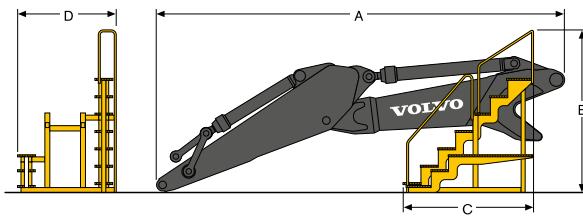
* With shoe grouser



DIMENSIONS OF THE COUNTERWEIGHT

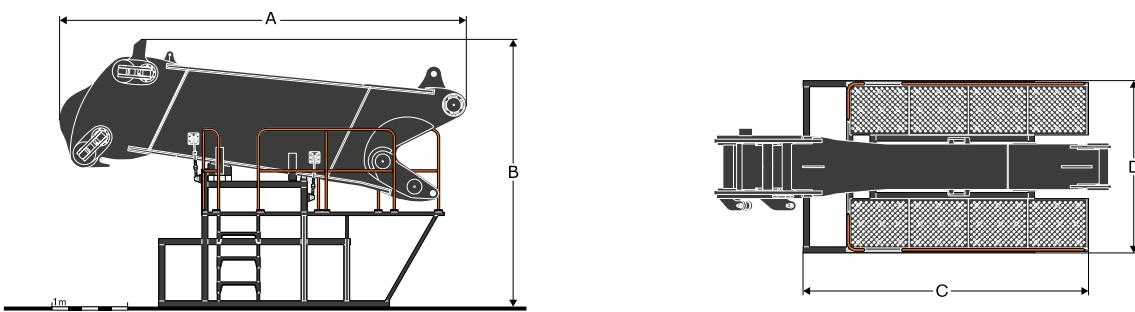
Description	Unit	EC750EHR	
		standard	additional cwt w/ hyd removable
A Width counterweight	mm	3 406	3 240
B Thickness counterweight	mm	808	658
C Height counterweight	mm	1 747	360
Total weight counterweight	kg	11 200	4 186

CAUTION: The machine can transported with the digging boom fitted. If it's transported without digging boom but with additional counterweight, take care of stability (tilting back) during the loading / unloading on truck.



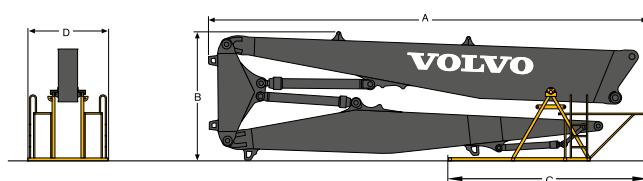
DIMENSIONS OF DIGGING EQUIPMENT

Description	Unit	EC750EHR 4.2 m
A Length - mounting to arm end	mm	8 190
B Overall height	mm	2 945
C Length of support cradle	mm	2 565
D Width of support cradle	mm	2 080
Weight of digging boom with transport cradle	kg	11 075



DIMENSIONS OF DIGGING BOOM EXTENSION

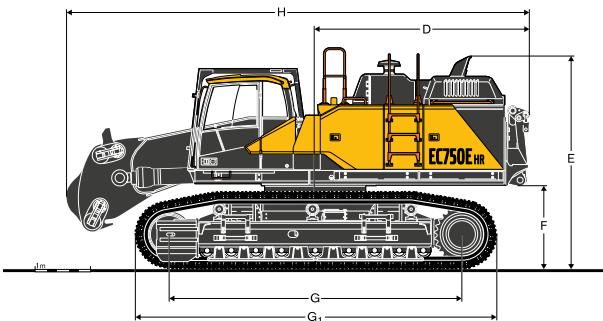
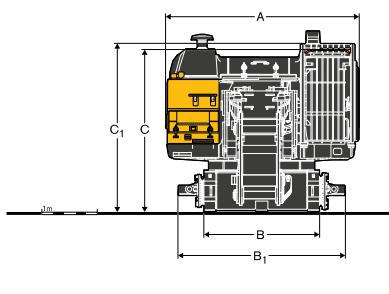
Description	Unit	EC750EHR
A Overall length	mm	5 383
B Overall height	mm	3 584
C Length of support cradle	mm	3 776
D Width of support cradle	mm	2 280
Weight, including support cradle	kg	6 618



DIMENSIONS OF 3-PIECE DEMOLITION BOOM IN SUPPORT CRADLE

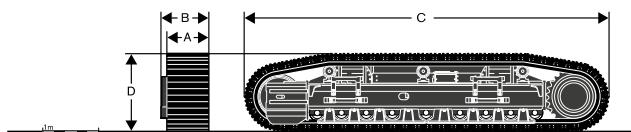
Description	Unit	EC750EHR	
		26m	36m
A Overall length	mm	11 082	17 306
B Overall height	mm	3 569	3 597
C Length of support cradle	mm	8 510	13 838
D Width of support cradle	mm	2 416	2 416
Weight of working equipment without attachment, including support cradle	kg	14 240	19 500

Specifications



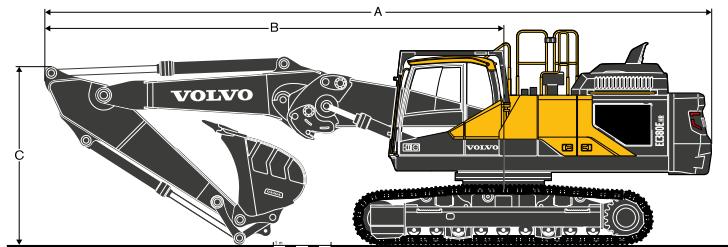
DIMENSION OF BASE MACHINE, TRANSPORTATION MODE

Description	Unit	EC750EHR Hydraulically retractable Undercarriage
A. Overall width with Handrail on FOG	mm	3 498
B. Width lower frame center	mm	2 095
B1. Overall width lower frame center	mm	3 044
C. Overall height	mm	2 971
C1. Overall height (incl. FOG)	mm	3 050
D. Swing radius center to CWT linkage	mm	3 867
E. Overall height of Diffuser	mm	3 277
F. Minimum upper frame clearance	mm	921
G. Length lower frame center	mm	2 859
G. Overall length lower frame center	mm	3 781
H. Overall length	mm	8 353
Base machine weight	kg	28 895

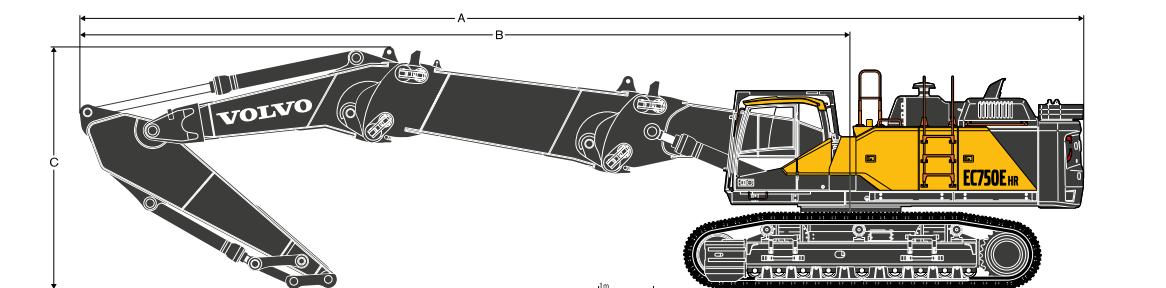


DIMENSION OF BASE MACHINE, TRACK FRAME

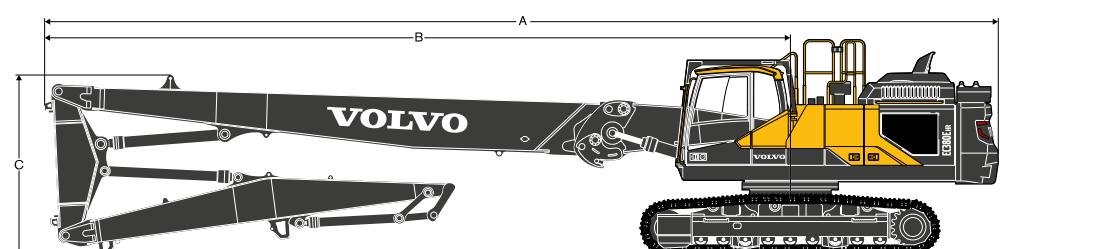
Description	Unit	EC750EHR Hydraulically retractable Undercarriage
A. Width track	mm	750
B. Overall width track and frame	mm	855
C. Length	mm	6 518
D. Height	mm	1 406
Total weight	kg	19 624


DIMENSIONS WITH DIGGING EQUIPMENT (POSITION FOR TRANSPORT)

		Unit	EC750EHR
Boom		Straight boom 8.3 m	
Arm		4.2m	
A Overall length	mm	13 899	
B Swing centre to front of equipment	mm	9 660	
C Maximum height of boom in transport position	mm	4 243	
Operating weight, excluding bucket	kg	89 377	

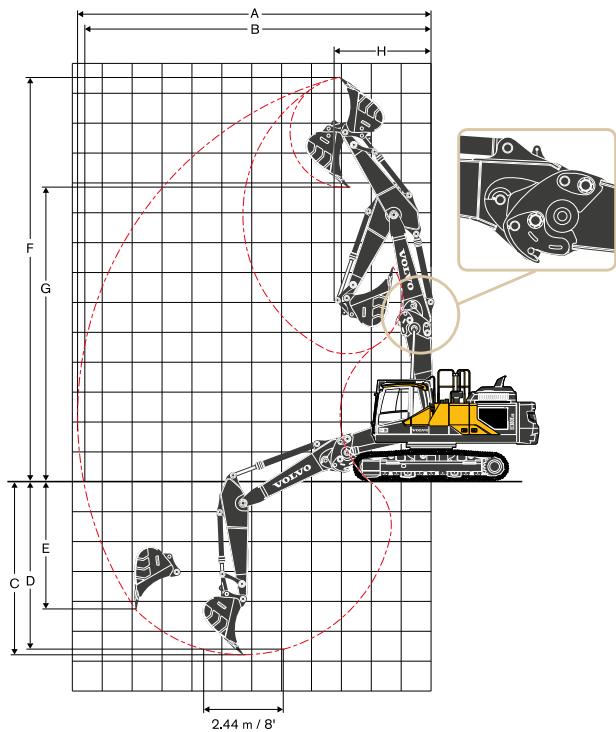

DIMENSIONS WITH DIGGING BOOM EXTENSION

		Unit	EC750EHR
Boom		Straight Boom 12.7m	
Arm		4.2m	
A Overall length	mm	18 311	
B Swing centre to front of equipment	mm	14 072	
C Maximum height of boom in transport position	mm	4 418	
Operating weight, excluding tool , cradle	kg	99 340	


DIMENSIONS WITH 3-PIECE DEMOLITION ATTACHMENT

		Unit	EC750EHR	
			26m	36m
A Overall length	mm	18 939	25 156	
B Swing centre to front of equipment	mm	14 701	20 918	
C Maximum height of boom in transport position	mm	3 621	3 489	
Operating weight, excluding crusher	kg	95 945	100 429	

Specifications

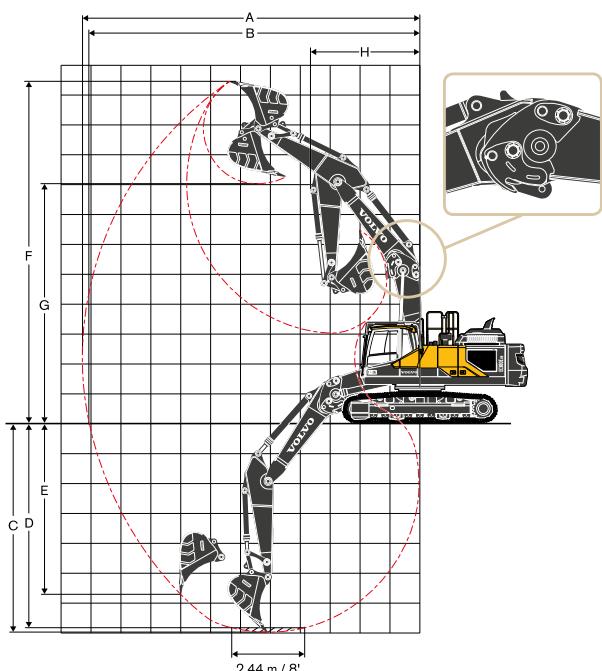


WORKING RANGES WITH STRAIGHT BOOM

		EC750EHR
Boom		Straight boom 8.3 m
Arm		4.2m
Bucket tip radius	mm	2 190
A Maximum digging reach	mm	14 567
B Maximum digging reach on ground	mm	14 339
C Maximum digging depth	mm	6 861
D Maximum digging depth (2.4 m level)	mm	6 744
E Maximum vertical wall digging depth	mm	4 684
F Maximum cutting height	mm	15 810
G Maximum dumping height	mm	11 465
H Minimum front swing radius	mm	4 906

DIGGING FORCES WITH STRAIGHT BOOM

		EC750EHR
Boom		Straight boom 8.3 m
Arm		4.2m
Bucket tip radius	mm	2190
Breakout force-bucket (Normal/Power boost) ISO	kN	304/317
Tearout force-arm (Normal / Power boost) ISO	kN	255/266
Rotation angle, bucket	°	173.4

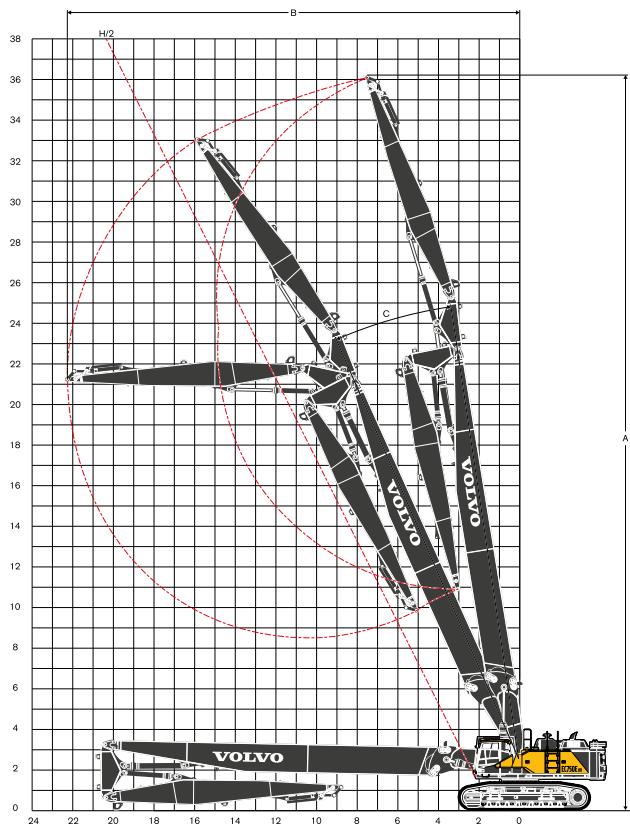


WORKING RANGES WITH BENT BOOM

		EC750EHR
Boom		Bent boom 7.7 m
Arm		4.2m
Bucket tip radius	mm	2 190
A Maximum digging reach	mm	13 697
B Maximum digging reach on ground	mm	13 452
C Maximum digging depth	mm	8 324
D Maximum digging depth (2.4 m level)	mm	8 207
E Maximum vertical wall digging depth	mm	7 257
F Maximum cutting height	mm	12 520
G Maximum dumping height	mm	8 558
H Minimum front swing radius	mm	5 354

DIGGING FORCES WITH BENT BOOM

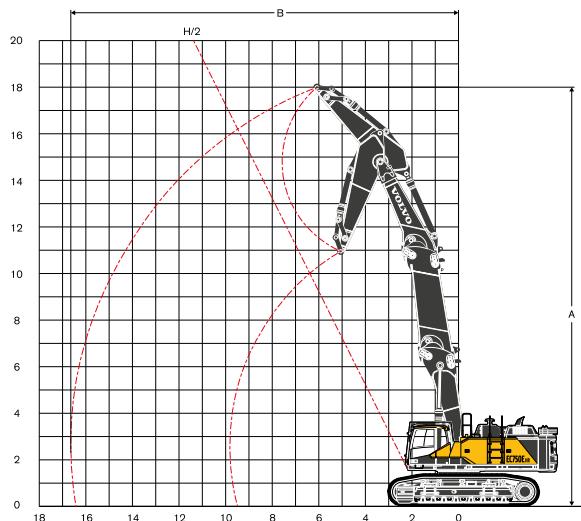
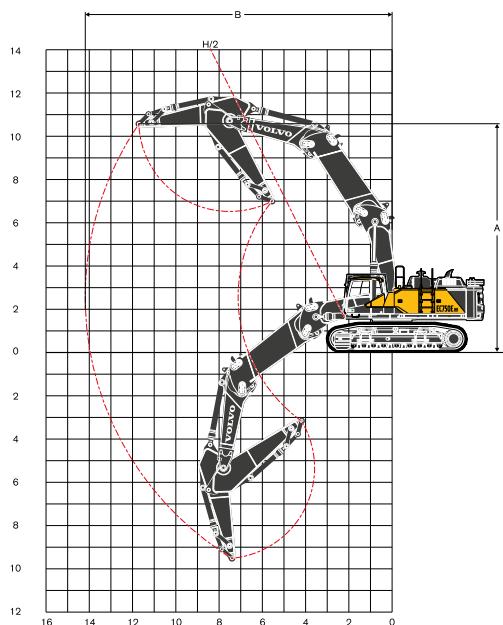
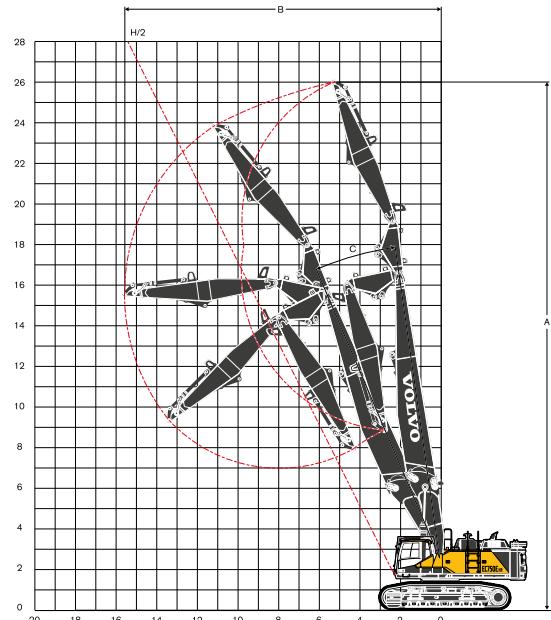
		EC750EHR
Boom		Bent boom 7.7 m
Arm		4.2m
Bucket tip radius	mm	2190
Breakout force-bucket (Normal/Power boost) ISO	kN	304/317
Tearout force-arm (Normal / Power boost) ISO	kN	255/266
Rotation angle, bucket	°	173.4



WORKING RANGES AND MAX. TOOL WEIGHT (machines with 3-piece demolition boom)

Description	Unit	EC750EHR	
		26 m	36 m
A Maximum pin height	mm	26 000	36 000
Pin height H/2		22 600	31 922 / 31 271*
B Maximum pin reach	mm	15 589	22 273 / 20 626*
Pin reach H/2		12 672	17 348 / 17 023*
Maximum tool weight	t	5	3.6
C Operating angle	°	23.5	23.5 / 18.5

*Across



WORKING RANGES AND MAX. TOOL WEIGHT (machines with digging boom extension)

EC750EHR

Boom	Straight & Straight Boom 11.9 m		Bent & Bent boom 11.0 m	
	4.2m arm	Undercarriage, hydraulically retractable	4.2m arm	Undercarriage, hydraulically retractable
A Maximum pin height	mm	15 083		10 570
B Maximum pin reach	mm	15 314		14 198
Maximum tool weight	t	6.5		9.5
C Maximum pin depth	mm	NO		9 509

Specifications

LIFTING CAPACITY EC750EHR

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 fit 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		12.0 m		Max. reach		
		Along UC	Across UC	Along UC	Across UC													
Boom 7.7 m Arm 4.2 m Shoe 900 mm Hyd. Removal CWT 12 816 kg	10.5 m kg															*11 030	*11 030	8.3
	9 m kg															*10 330	*10 330	9.5
	7.5 m kg															*10 030	*10 030	10.4
	6 m kg															*10 000	*10 000	11.0
	4.5 m kg															*10 180	*10 180	11.3
	3 m kg															*10 600	*10 600	11.5
	1.5 m kg															*11 280	*11 280	11.5
	0 m kg															*12 320	*12 320	11.2
	-1.5 m kg															*13 900	*13 900	10.8
	-3 m kg															*16 470	15 300	10.1
	-4.5 m kg															*17 070	*17 070	9.1
	-6 m kg																	7.6
Boom 8.3 m Arm 4.2 m Shoe 900 mm Hyd. Removal CWT 12 816 kg	13.5 m kg															*16 030	*16 030	5.7
	12 m kg															*12 820	*12 820	8.0
	10.5 m kg															*11 370	*11 370	9.5
	9 m kg															*10 590	*10 590	10.6
	7.5 m kg															*10 180	*10 180	11.3
	6 m kg															*9 990	*9 990	11.9
	4.5 m kg															*10 000	*10 000	12.2
	3 m kg															*10 220	*10 220	12.4
	1.5 m kg															*10 610	*10 610	12.3
	0 m kg															*11 240	11 190	12.1
	-1.5 m kg															*12 190	11 810	11.7
	-3 m kg															*10 420	*10 420	11.0
	-4.5 m kg																	10.1
Boom 7.7 m Arm 4.2 m Shoe 750 mm Hyd. Removal CWT 12 816 kg	10.5 m kg															*11 030	*11 030	8.3
	9 m kg															*10 330	*10 330	9.5
	7.5 m kg															*10 030	*10 030	10.4
	6 m kg															*10 000	*10 000	11.0
	4.5 m kg															*10 180	*10 180	11.3
	3 m kg															*10 600	*10 600	11.5
	1.5 m kg															*11 280	*11 280	11.5
	0 m kg															*12 320	*12 320	11.2
	-1.5 m kg															*13 900	13 680	10.8
	-3 m kg															*16 470	15 050	10.1
	-4.5 m kg															*17 070	*17 070	9.1
	-6 m kg																	7.6

Notes: 1. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift Capacity Standards. 2. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY EC750EHR

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 fit 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		12.0 m		Max. reach					
		Along UC	Across UC	Along UC	Across UC	Max. m															
Boom 8.3 m	13.5 m kg															*16 030	*16 030	5.7			
	12 m kg							*15 460	*15 460								*12 820	*12 820	8.0		
	10.5 m kg							*16 230	*16 230	*14 450	*14 450						*11 370	*11 370	9.5		
	9 m kg							*16 080	*16 080	*16 170	*16 170	*11 340	*11 340				*10 590	*10 590	10.6		
	7.5 m kg					*15 940	*15 940	*17 110	*17 110	*17 300	*17 300	*15 450	*15 450				*10 180	*10 180	11.3		
	6 m kg					*22 910	*22 910	*21 010	*21 010	*19 700	*19 700	*17 580	15 940				*9 990	*9 990	11.9		
	4.5 m kg					*34 970	*34 970	*27 870	27 010	*23 290	19 970	19 270	15 360	*12 910	12 010	*10 000	*10 000	12.2			
	Shoe 750 mm	3 m kg				*36 300	35 670	*28 600	25 130	*23 580	18 880	18 610	14 720	14 870	11 720	*10 220	*10 220	12.4			
	Hyd. Removal CWT 12 816 kg	1.5 m kg				*34 430	33 290	*28 480	23 630	22 930	17 950	18 020	14 160	14 600	11 460	*10 610	*10 610	12.3			
	0 m kg					*33 050	32 120	*27 250	22 670	22 230	17 290	17 600	13 760	*13 370	11 320	*11 240	11 190	12.1			
Arm 4.2 m	-1.5 m kg					*17 550	*17 550	*29 750	*29 750	*24 810	22 240	*20 450	16 960	*16 460	13 590		*12 190	11 810	11.7		
	-3 m kg					*26 470	*26 470	*24 610	*24 610	*21 040	*21 040	*17 240	16 980	*12 910	*12 910		*10 420	*10 420	11.0		
	-4.5 m kg							*15 580	*15 580	*12 110	*12 110							10.1			
	10.5 m kg																*11 030	*11 030	8.3		
	9 m kg									*13 480	*13 480						*10 330	*10 330	9.5		
	7.5 m kg									*16 280	*16 280						*10 030	*10 030	10.4		
	6 m kg									*21 010	*21 010	*18 880	*18 880	*13 860	*13 860		*10 000	*10 000	11.0		
	4.5 m kg					*40 660	*40 660	*30 390	*30 390	*24 910	*24 910	*21 510	21 310	*16 830	16 180		*10 180	*10 180	11.3		
	3 m kg					*33 680	*33 680	*26 770	*26 770	*22 550	20 150	19 400	15 520			*10 600	*10 600	11.5			
	1.5 m kg					*35 820	*35 820	*28 140	25 300	*23 330	19 050	18 720	14 860			*11 280	*11 280	11.5			
Shoe 650 mm	0 m kg					*23 020	*23 020	*36 370	33 900	*28 680	23 950	23 120	18 170	18 160	14 330		*12 320	*12 320	11.2		
	-1.5 m kg					*17 320	*17 320	*30 250	*30 250	*35 370	32 880	*28 190	23 120	*22 510	17 590	*17 840	14 010		*13 900	13 530	10.8
	-3 m kg					*26 390	*26 390	*40 850	*40 850	*32 840	32 580	*26 420	22 790	*21 360	17 380		*16 470	14 880	10.1		
	-4.5 m kg					*37 440	*37 440	*35 150	*35 150	*28 460	*28 460	*22 860	*22 860	*17 340	*17 340			*17 070	*17 070	9.1	
	-6 m kg							*21 180	*21 180	*15 700	*15 700							7.6			
	13.5 m kg																*16 030	*16 030	5.7		
Arm 4.2 m	12 m kg							*15 460	*15 460								*12 820	*12 820	8.0		
	10.5 m kg							*16 230	*16 230	*14 450	*14 450						*11 370	*11 370	9.5		
	9 m kg							*16 080	*16 080	*16 170	*16 170	*11 340	*11 340				*10 590	*10 590	10.6		
	7.5 m kg					*15 940	*15 940	*17 110	*17 110	*17 300	*17 300	*15 450	*15 450				*10 180	*10 180	11.3		
	6 m kg					*22 910	*22 910	*21 010	*21 010	*19 700	*19 700	*17 580	15 780				*9 990	*9 990	11.9		
	4.5 m kg					*34 970	*34 970	*27 870	26 750	*23 290	19 780	19 070	15 200	*12 910	11 870	*10 000	*10 000	12.2			
	3 m kg					*36 300	35 320	*28 600	24 880	*23 580	18 690	18 410	14 560	14 710	11 590	*10 220	*10 220	12.4			
	1.5 m kg					*34 430	32 940	*28 480	23 380	22 680	17 750	17 820	14 000	14 430	11 320	*10 610	*10 610	12.3			
	0 m kg					*33 050	31 770	*27 250	22 420	21 990	17 090	17 410	13 600	*13 370	11 190	*11 240	11 050	12.1			
	-1.5 m kg					*17 550	*17 550	*29 750	*29 750	*24 810	21 990	*20 450	16 760	*16 460	13 440		*12 190	11 670	11.7		
	-3 m kg					*26 470	*26 470	*24 610	*24 610	*21 040	*21 040	*17 240	16 790	*12 910	*12 910		*10 420	*10 420	11.0		
	-4.5 m kg							*15 580	*15 580	*12 110	*12 110							10.1			

Notes: 1. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift Capacity Standards. 2. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY EC750EHR

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 fit from the following values.

With Boom extension	Lifting hook related to ground level	4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m		Max. reach	
		Along UC	Across UC	Max. m																	
Bent & Bent boom	10.5 m kg																			*9980 *9980 11.8	
11.0 m Arm	9 m kg																			*10 090 *10 090 12.7	
4.2 m Shoe	7.5 m kg																			*10 360 *10 360 13.3	
900 mm Hyd. Removal CWT	6 m kg																			*10 800 *10 800 13.8	
16526 kg	4.5 m kg																			*1150 10 860 14.1	
	3 m kg																			*1130 10 260 14.2	
	1.5 m kg																			*11530 9 910 14.2	
	0 m kg																			*11800 9 800 14.0	
	-1.5 m kg																			*12 130 9 940 13.6	
	-3 m kg																			*12 490 10 390 13.1	
	-4.5 m kg																			*12 870 11 280 12.3	
	-6 m kg																			*13 240 12 870 11.3	
	-7.5 m kg																			*13 480 *13 480 10.0	
	-9 m kg																			*13 250 *13 250 8.2	
Bent & Straight boom	13.5 m kg																			*10 790 *10 790 11.5	
12.1 m Arm	12 m kg																			*10 320 *10 320 12.7	
4.2 m Shoe	10.5 m kg																			*10 070 *10 070 13.7	
900 mm Hyd. Removal CWT	9 m kg																			*9 980 *9 980 14.5	
16 526 kg	7.5 m kg																			*10 020 9 430 15.1	
	6 m kg																			*10 170 8 670 15.5	
	4.5 m kg																			*10 060 8 140 15.7	
	3 m kg																			*9 960 7 790 15.9	
	1.5 m kg																			*9 870 7 610 15.8	
	0 m kg																			*9 790 7 600 15.7	
	-1.5 m kg																			*9 680 7 760 15.3	
	-3 m kg																			*9 510 8 130 14.8	
	-4.5 m kg																			*9 250 8 770 14.2	
	-6 m kg																			*8 790 *8 790 13.3	
	-7.5 m kg																			*8 000 *8 000 12.2	
Straight & Bent boom	15 m kg																			*11140 *11140 8.9	
11.9 m Arm	13.5 m kg																			*10 440 *10 440 10.7	
4.2 m Shoe	12 m kg																			*10 100 *10 100 12.0	
900 mm Hyd. Removal CWT	10.5 m kg																			*9 980 *9 980 13.1	
16 526 kg	9 m kg																			*10 020 *10 020 13.9	
	7.5 m kg																			*10 200 *10 200 14.5	
	6 m kg																			*10 500 9 380 14.9	
	4.5 m kg																			*10 830 8 750 15.2	
	3 m kg																			*10 470 8 340 15.3	
	1.5 m kg																			*10 100 8 110 15.3	
	0 m kg																			*9 700 8 070 15.1	
	-1.5 m kg																			*9 220 8 230 14.8	
	-3 m kg																			*8 610 *8 610 14.3	
	-4.5 m kg																			*7 770 *7 770 13.6	
	-6 m kg																			*6 550 *6 550 12.7	

Notes: 1. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift Capacity Standards. 2. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY EC750EHR

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 fit from the following values.

With Boom extension	Lifting hook related to ground level	4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m		Max. reach	
		Along UC	Across UC	Max. m																	
Straight & Straight boom 12.7 m Arm 4.2 m Shoe 900 mm Hyd. Removal CWT 16 526 kg	18 m kg																		*16 660	*16 660	6.1
	16.5 m kg																		*13 390	*13 390	9.0
	15 m kg																		*11 900	*11 900	11.0
	13.5 m kg																		*11 040	*11 040	12.5
	12 m kg																		*10 520	*10 520	13.7
	10.5 m kg																		*10 200	9 800	14.6
	9 m kg																		*10 040	8 680	15.3
	7.5 m kg																		*9 980	7 880	15.9
	6 m kg																		*9 490	7 310	16.3
	4.5 m kg																		*8 870	6 930	16.5
	3 m kg																		*8 240	6 700	16.6
Bent & Bent boom 11.0 m Arm 4.2 m Shoe 750 mm Hyd. Removal CWT 16 526 kg	1.5 m kg																		*7 570	6 610	16.6
	0 m kg																		*6 610	6 660	16.4
	-1.5 m kg																		*5 930	*5 930	16.1
	-3 m kg																		*4 870	*4 870	15.7
	-4.5 m kg																		*3 530	*3 530	15.1
	10.5 m kg																		*9 980	*9 980	11.8
	9 m kg																		*10 090	*10 090	12.7
	7.5 m kg																		*10 360	*10 360	13.3
Bent & Straight boom 12.1 m Arm 4.2 m Shoe 750 mm Hyd. Removal CWT 16 526 kg	6 m kg																		*10 800	*10 800	13.8
	4.5 m kg																		*11 150	10 700	14.1
	3 m kg																		*11 310	10 100	14.2
	1.5 m kg																		*11 530	9 740	14.2
	0 m kg																		*11 800	9 630	14.0
	-1.5 m kg																		*12 130	9 760	13.6
	-3 m kg																		*12 490	10 210	13.1
	-4.5 m kg																		*12 870	11 080	12.3
	-6 m kg																		*13 240	12 650	11.3
	-7.5 m kg																		*13 480	*13 480	10.0
	-9 m kg																		*13 250	*13 250	8.2
	13.5 m kg																		*10 790	*10 790	11.5
Bent & Straight boom 12.1 m Arm 4.2 m Shoe 750 mm Hyd. Removal CWT 16 526 kg	12 m kg																		*10 320	*10 320	12.7
	10.5 m kg																		*10 070	*10 070	13.7
	9 m kg																		*9 980	*9 980	14.5
	7.5 m kg																		*10 020	9 430	15.1
	6 m kg																		*10 170	8 670	15.5
	4.5 m kg																		*10 060	8 140	15.7
	3 m kg																		*9 960	7 790	15.9
	1.5 m kg																		*9 870	7 610	15.8
	0 m kg																		*9 790	7 600	15.7
	-1.5 m kg																		*9 680	7 760	15.3
	-3 m kg																		*9 510	8 130	14.8
	-4.5 m kg																		*9 250	8 770	14.2
	-6 m kg																		*8 790	*8 790	13.3
	-7.5 m kg																		*8 000	*8 000	12.2

Notes: 1. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift Capacity Standards. 2. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY EC750EHR

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 fit from the following values.

With Boom extension	Lifting hook related to ground level	4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m		Max. reach	
		Along UC	Across UC	Max. m																	
Straight & Bent boom	15 m kg																			*11140 *11140 8.9	
	13.5 m kg																			*10440 *10440 10.7	
	12 m kg																			*10100 *10100 12.0	
	10.5 m kg																			*9980 *9980 13.1	
	9 m kg																			*10020 *10020 13.9	
	11.9 m Arm																			*10200 *10120 14.5	
	4.2 m Shoe																			*10500 9230 14.9	
	750 mm Hyd.																			*10830 8600 15.2	
	Removal CWT																			*10470 8180 15.3	
	16 526 kg																			*10100 7960 15.3	
Straight & Straight boom	1.5 m kg																			*9700 7920 15.1	
	0 m kg																			*9220 8070 14.8	
	-1.5 m kg																			*8610 8460 14.3	
	-3 m kg																			*7770 *7770 13.6	
	-4.5 m kg																			*6550 *6550 12.7	
	-6 m kg																				
	18 m kg																			*16660 *16660 6.1	
	16.5 m kg																			*13390 *13390 9.0	
	15 m kg																			*11900 *11900 11.0	
	13.5 m kg																			*11040 *11040 12.5	
Bent & Bent boom	12 m kg																			*10520 *10520 13.7	
	10.5 m kg																			*10200 9800 14.6	
	9 m kg																			*10040 8680 15.3	
	7.5 m kg																			*9980 7880 15.9	
	6 m kg																			*9490 7310 16.3	
	4.5 m kg																			*8870 6930 16.5	
	3 m kg																			*8240 6700 16.6	
	1.5 m kg																			*7570 6610 16.6	
	0 m kg																			*6810 6660 16.4	
	-1.5 m kg																			*5930 *5930 16.1	
Bent & Straight boom	-3 m kg																			*4870 *4870 15.7	
	-4.5 m kg																			*3530 *3530 15.1	
	10.5 m kg																			*9980 *9980 11.8	
	9 m kg																			*10090 *10090 12.7	
	7.5 m kg																			*10360 *10360 13.3	
	6 m kg																			*10800 *10800 13.8	
	4.5 m kg																			*11150 10580 14.1	
Bent & Arm	3 m kg																			*11310 9990 14.2	
	1.5 m kg																			*11530 9630 14.2	
	0 m kg																			*11800 9520 14.0	
	-1.5 m kg																			*12130 9650 13.6	
	-3 m kg																			*12490 10090 13.1	
	-4.5 m kg																			*12870 10950 12.3	
	-6 m kg																			*13240 12500 11.3	
	-7.5 m kg																			*13480 *13480 10.0	
	-9 m kg																			*13250 *13250 8.2	

Notes: 1. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift Capacity Standards. 2. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY EC750EHR

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 fit from the following values.

With Boom extension	Lifting hook related to ground level	4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 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	Along UC	Across UC	Along UC	Across UC	Max. m	
	13.5 m kg																			*10 790 *10 790 11.5	
	12 m kg																			*10 320 *10 320 12.7	
	10.5 m kg																			*10 070 *10 070 13.7	
Bent & Straight boom	9 m kg							*15 670 *15 670 *13 670 *13 670 *12 230 *12 230 *11 160 *11 160											*9 980 *9 980 14.5		
12.1 m Arm	7.5 m kg							*20 190 *20 190 *16 570 *16 570 *14 210 *14 210 *12 550 *12 550 *11 330 *11 330 *10 420 *9 430											*10 020 *9 320 15.1		
4.2 m Shoe	6 m kg									*17 510 *17 510 *14 800 *14 800 *12 920 *12 920 *11 530 *11 530 *10 480 *9 190										*10 170 8 570 15.5	
650 mm Hyd.	4.5 m kg									*18 320 *18 320 *15 330 *15 330 *13 260 *12 910 *11 740 *10 690 *10 560 *8 860										*10 060 8 040 15.7	
Removal CWT	3 m kg									*18 770 17 770 *15 700 *14 650 *13 520 *12 170 *11 890 *10 180 *10 610 *8 530										*9 960 7 690 15.9	
16 526 kg	1.5 m kg									*18 790 16 840 *15 860 *13 860 *13 650 *11 560 *11 950 *9 740 *10 580 *8 240										9 830 7 520 15.8	
	0 m kg									*18 440 16 380 *15 760 *13 330 *13 600 *11 120 *11 880 *9 400 *10 420 *8 020										*9 790 7 500 15.7	
	-1.5 m kg									*17 780 16 210 *15 380 *13 040 *13 330 *10 840 *11 610 *9 180 *10 050 *7 900										*9 680 7 660 15.3	
	-3 m kg									*18 650 *18 650 *16 860 *16 240 *14 730 *12 950 *12 800 *10 720 *11 090 *9 110										*9 510 8 030 14.8	
	-4.5 m kg									*17 130 *17 130 *17 230 *17 230 *15 620 *15 620 *13 750 *13 040 *11 940 *10 780 *10 180 *9 200										*9 250 8 660 14.2	
	-6 m kg									*15 610 *15 610 *15 340 *15 340 *13 990 *13 990 *12 350 *12 350 *10 610 *10 610										*8 790 *8 790 13.3	
	-7.5 m kg									*12 850 *12 850 *11 790 *11 790 *10 320 *10 320 *8 400 *8 400										*8 000 *8 000 12.2	
	15 m kg																			*11 140 *11 140 8.9	
	13.5 m kg																			*10 440 *10 440 10.7	
Straight & Bent boom	12 m kg									*17 060 *17 060 *15 330 *15 330 *10 390 *10 390										*10 100 *10 100 12.0	
11.9 m Arm	10.5 m kg									*18 120 *18 120 *15 790 *15 790 *14 020 *14 020										*9 980 *9 980 13.1	
4.2 m Shoe	9 m kg									*27 850 *27 850 *22 230 *22 230 *18 600 *18 600 *16 040 *16 040 *14 110 *14 110 *12 600 *11 990										*10 020 *10 020 13.9	
650 mm Hyd.	7.5 m kg									*23 240 *23 240 *19 140 *19 140 *16 330 *16 330 *14 250 *14 250 *12 620 *11 620										*10 200 10 010 14.5	
Removal CWT	6 m kg									*24 040 *24 040 *19 600 *19 600 *16 580 *16 580 *14 360 *13 650 *12 630 *11 120										*10 500 9 120 14.9	
16 526 kg	4.5 m kg									*19 780 19 270 *16 690 *16 560 *14 390 *12 840 *12 580 *10 590 *11 030 *8 720										*10 830 8 500 15.2	
	3 m kg									*19 520 17 760 *16 570 *14 590 *14 270 *12 090 *12 430 *10 070 *10 810 *8 400										*10 470 8 080 15.3	
	-1.5 m kg									*18 770 16 770 *16 170 *13 770 *13 960 *11 460 *12 110 *9 620 *10 430 *8 110										*10 100 7 860 15.3	
	-3 m kg									*17 640 16 230 *15 450 *13 200 *13 400 *11 000 *11 590 *9 280 *9 830 *7 900										*9 700 7 810 15.1	
	-4.5 m kg									*16 580 *16 580 *16 200 *16 010 *14 410 *12 890 *12 560 *10 700 *10 800 *9 060										*9 220 7 960 14.8	
	-6 m kg									*14 750 *14 750 *14 450 *14 450 *13 020 *12 780 *11 380 *10 580 *9 630 *8 990										*8 610 8 350 14.3	
	-7.5 m kg									*12 430 *12 430 *12 320 *12 320 *11 220 *11 220 *9 750 *9 750 *7 890 *7 890										*7 770 *7 770 13.6	
	-18 m kg									*9 710 *9 710 *8 890 *8 890 *7 460 *7 460										*6 550 *6 550 12.7	
	16.5 m kg																			*16 660 *16 660 6.1	
	15 m kg																			*13 390 *13 390 9.0	
Straight & Straight boom	13.5 m kg																			*11 190 *11 190 11.0	
12.7 m Arm	12 m kg																			*10 520 *10 520 13.7	
4.2 m Shoe	10.5 m kg																			*10 200 9 690 14.6	
650 mm Hyd.	9 m kg																			*10 040 8 580 15.3	
Removal CWT	7.5 m kg																			*9 980 7 780 15.9	
16526kg	6 m kg																			*9 450 7 220 16.3	
	4.5 m kg																			*8 870 6 840 16.5	
	3 m kg																			*8 240 6 610 16.6	
	1.5 m kg																			*7 570 6 520 16.6	
	0 m kg																			*6 810 6 570 16.4	
	-1.5 m kg																			*5 930 *5 930 16.1	
	-3 m kg																			*4 870 *4 870 15.7	
	-4.5 m kg																			*3 530 *3 530 15.1	

Notes: 1. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift Capacity Standards. 2. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. 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 that meets Tier4f/EU Stage IV requirements.

Air intake heater

Fuel filter and water separator

Fuel filler pump: 50 l/min, with automatic shut-off

Alternator, 80 A

Precleaner, Cyclone

Electric/Electronic control system

Contronics

Advanced mode control system

Self-diagnostic system

Machine status indication

Engine speed sensing power control

Automatic idling system

One-touch power boost

Safety stop/start function

Adjustable two LCD color monitors

Master electrical disconnect switch

Engine restart prevention circuit

High-capacity halogen lights(Optional selection to LED):

Frame-mounted 2

Boom-mounted 4

Batteries, 2 x 12 V / 200 Ah

Start motor, 24 V / 7 kW

CareTrack

Engine emergency stop switch

Overload Warning (TMI & Slew limitation)

Front camera for demolition

Rear view camera on counterweight

Cleaning air gun

Dust suppression system

Hydraulic system

Hose rupture valve for UHR:

boom cylinder and arm

Hydraulic piping:

Hammer & shear:

Two pump flow

Slope & rotator

Oil leak (drain) line

Quick fit piping

Additional return filter

Overload warning device

Automatic sensing hydraulic system

Summation system

Boom priority

Arm priority

Swing priority

Boom and arm regeneration valves

Slew 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

STANDARD EQUIPMENT

Superstructure

Full height counterweight: 11 200 kg

Additional counterweight for high reach: 4 186 kg (EC750EHR hyd removable CWT)

HD undercover plate (8 mm)

HD double thickness side doors with micro mesh

Access way with handrail

Punched metal anti-slip plates

Tool storage area

Undercarriage

Fixed undercarriage

Retractable undercarriage

Swing ring guard

HD Undercover plate (10 mm)

Hydraulic track adjusters

Greased and sealed track link

Standard track guards

Foot support bar

Tilting cab, and interior

Tilting cab

Seat, mech. susp w/ heater, w/o X-Isolator

Control Joystick with 3 switch & 1 prop. control

Air-conditioner climate control

Silicon oil and rubber mounts with spring

Adjustable operator seat and joystick control console

AM/FM stereo with CD Player and MP3 input with bluetooth

Flexible antenna

Hydraulic safety lock lever

Cab, all-weather sound suppressed, includes:

Cup holder

Door locks

Tinted glass

Floor mat

Horn

Large storage area

Seat belt, 3 inch retractable

Safety glass(front and side)

LEXAN glass(roof)

Sun shields, front, roof, rear

Windshield wipers with intermittent feature(front and roof)

Master key

Frame mounted Falling object guard (FOG)

OPTIONAL EQUIPMENT	OPTIONAL EQUIPMENT
Engine	Cab and interior
Block heater: 120 V, 240 V	Seat, Mech. susp w/o heater, w/o X-Isolator
Oil bath pre-cleaner	Seat, Air susp w/ heater, w/ X-Isolator
Diesel coolant heater ,10kW	Pilot control pattern change
Water separator with heater	Smoker kit (ashtray & lighter)
Reversible cooling fan	Safety net for front window
Electric	Lower wiper with intermittent control
Extra lights(halogen or LED):	Specific key
Cab mounted x2 (front) x1 (rear)	
Counterweight mounted x1	
Travel alarm	Undercarriage
Anti-theft system	Hydraulically retractable undercarriage
Rotating warning beacon	Full track guards
Side view camera	Track shoes
Hydraulic system	600/700/800/900 mm triple grouser shoes
Hose rupture valve for digging boom : Arm	600 mm double grouser shoes
Hydraulic piping:	650/750/900 mm double grouser shoes
Work tool management system (Up to 20 programmable memories)	Digging equipment
Grapple for digging boom	Digging boom Straight 8.3 m / Bent 7.7 m
Quick fit piping for digging boom	Arm: 4.2 m
Straight travel pedal	Boom extension 4.39 m
Hydraulic oil, ISO VG 32, 68	Manual centralized lubrication
Hydraulic oil, biodegradable 46	High reach
Hydraulic oil, longlife oil 32, 46, 68	Boom HR-3 piece: 26 m
Boom cylinder guard	Boom HR-3 piece: 36 m
Bucket cylinder guard	Additional front camera for demolition(left hand side)
Superstructure	Service
Side Impact Protection System	Spare parts
Side walk-way for tilting cab	Tool kit, full scale
	Tool kit, daily maintenance

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

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