

V O L V O



Volvo Excavators 34.4 - 41.5 t 299 hp

EC360

Volvo Construction Equipment

EC360

With a modern cab and easy to service, the EC360 can help you keep productivity high and your TCO low.



Get an edge thanks to versatility

Commonly used in quarries, for trenching, digging or preparing construction sites, the EC360 is a versatile machine. Regardless of applications, the EC360F is a straightforward solution with big payback. Save fuel, lower Total Cost of Ownership and boost the profitability of your operation. Now even easier to service and with a comfortable modern cab, it is a machine that meets the requirements of everyone from owner to operator.

Operator comfort



- More precise controls
- Quieter cab
- Personalized settings for greater comfort
- ROPS cab as standard

Smart View with Obstacle Detection



- Increased safety onsite and for the operator
- Radar warns for items outside the screen
- HD screen
- Human identifying alarm separate from other obstacles

Serviceability



- Ground level access for service
- Long service intervals
- Grouped filters and lubrication points
- Quick and easy oil changes

Fuel Efficiency



- Up to 7% improvement
- Powerful and efficient Volvo engine
- 2% lower engine RPM
- 5% hydraulic system improvement

Productivity



- Volvo Active Control
- Dig Assist with On-Board Weighing
- Electro-hydraulic system
- Boom/Swing & Boom/Travel priority functions

Co-Pilot

The new Volvo Co-Pilot features a new 12.8" display with full HD resolution. Associated with the new HD side and rear camera, it gives better visibility on your operations. Both hardware and software improvements provide increased control on the Dig Assist applications.



Smooth Control

You will find the new joystick controls offer smoother, easier operation. Because the controls are more precise, it is easier for you to achieve what you are trying to do, leading to better machine performance.

Volvo Smart View

Volvo Smart View with Obstacle Detection provides operators with a 360° view of the machines surroundings thanks to the camera and the new radar detection system. This high technology can identify obstacles as either an object or a human being, allowing the operator to take appropriate action.

Stay connected

In the comfort of the new cab, you can charge your mobile phone wirelessly or plugged in. You also have the option to use USB connections to access your music playlists or podcasts. The Bluetooth speaker enables you to have clear communication when making a phone call.

Comfort

The new style cab's ambition is to be more comfortable and make your work easier. A handy storage space allows you to store your coolbox or shoes while you work. You will enjoy reduced noise levels, built-in sunscreen and improved HVAC. Moreover, the new comfortable seat offer will allow to reduce the operator fatigue when working all day.

Fuel efficiency

In the new Volvo excavators our improved electro-hydraulic system reduces your fuel consumption dramatically. It is done by regulating engine speed and hydraulic flow rate based on the task at hand. This ensures that only the necessary amount of energy is used, leading to improved fuel efficiency and lower operating costs.

Outstanding cooling performance

The EC360 is equipped with a smart cooling system that consists of electric and hydraulic fans. It automatically adjusts fan speed according to engine coolant temperature and hydraulic workload. This minimizes unnecessary energy consumption and improves overall fuel efficiency.

By reducing engine load and preventing overheating, the system ensures optimum excavator performance, extends component life and lowers operating costs.

New electro-hydraulic system

At the heart of the fuel efficiency improvements is the new electro-hydraulic system with enhanced main control valve (MCV). This intelligent technology uses electronic sensors to monitor the operator's movements and send signals to the machine's on-board computer (ECU) which processes the information and sends commands to the main control valve. The result is smooth and precise movement of the excavator's boom, bucket, and other hydraulic functions allowing for more accurate digging and loading.

Dig Assist

A must-have on the modern construction site, Dig Assist provides unrivalled machine guidance and control technology, enabling operators to work with the highest levels of precision and accuracy.

The addition of On-Board Weighing provides real-time insights into the bucket's load, helping to eliminate overloading, underloading, reweighing and waiting times.



Productivity

Advanced electric control joystick and full electric travel pedals provide lightning-fast response times. Boom/Swing priority functions help operators work with speed and ease by prioritizing one function over another, improving cycle times.

Serviceability

Minimizing downtime is key to protect your total cost of ownership. Easy access, clean and quick oil changes, as well as 1 000-hour intervals for engine oil, oil and fuel filter further increase your machine availability. Swing out condenser also makes cleaning of the radiator and oil cooler more convenient.



Volvo EC360 in detail

Engine

The latest generation, Volvo engine Tier 4f / Stage V emissions compliant diesel engine fully meets the demands of the latest, emissions regulations. Featuring Volvo Advanced Combustion Technology (V-ACT), it is designed to deliver superior performance and fuel efficiency. The engine uses precise, high pressure 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	Volvo	Volvo D8M
Max power at	r/min	1 600
Net, ISO 9249/SAE J1349	kW	302
	hp	298
Gross, ISO 14396/SAE J1995	kW	220
	hp	299
Max torque	Nm	1 400
at engine speed	r/min	1 400
No. of cylinders		6
Displacement	l	7.7
Bore	mm	110
Stroke	mm	135

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	170
Alternator	V/A	28.3 / 120
Start motor	V - kW	24 x 5.5

Undercarriage and structures

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

EC360F L

Track shoe	2 x 48
Link pitch	mm 216
Shoe width, triple grouser	mm 600/700/ 750/800/900
Bottom rollers	2 x 8
Top rollers	2 x 2

EC360F NL

Track shoe	2 x 48
Link pitch	mm 216
Shoe width, triple grouser	mm 600/700/ 750/800/900
Bottom rollers	2 x 8
Top rollers	2 x 2

Swing system

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

Max. slew speed	r/min	10.3
Max. slew torque	kNm	126.2

Travel System

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	261
Max. travel speed (low)	km/h	3.3
Max. travel speed (high)	km/h	5.1
Gradeability	°	35



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 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 side door.

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.

Sound Level

Sound level in cab according to ISO 6396

L _{pA}	dB	71
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External sound level according to ISO 6395, EU Noise Directive (2000/14/EC)

L _{WA}	dB	105
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Service Refill

Fuel tank	l	580
DEF/AdBlue® tank	l	50
Hydraulic system, total	l	465
Hydraulic tank	l	215
Engine oil	l	30
Engine coolant	l	44
Slew reduction unit	l	6
Travel reduction unit	l	2 x 6.8

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 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.

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

Power boost: All digging and lifting forces are increased.

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

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

Main pump: 2 x Variable displacement axial piston pumps

Maximum flow	l/min	2 x 288
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Pilot pump: Gear pump

Maximum flow	l/min	20
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Max. pressure

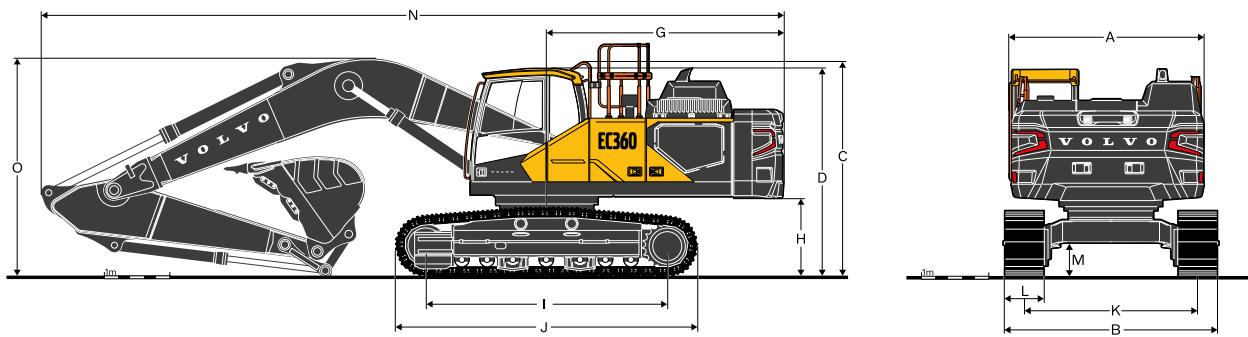
Implement	MPa	33.3 / 36.3
Travel circuit	MPa	33.3
Slew circuit	MPa	27.9
Pilot circuit	MPa	3.9

Hydraulic Cylinders

Boom		2
Bore x Stroke	ø x mm	150 x 1 530
Arm		1
Bore x Stroke	ø x mm	170 x 1 700
Bucket		1
Bore x Stroke	ø x mm	140 x 1 285



Specifications



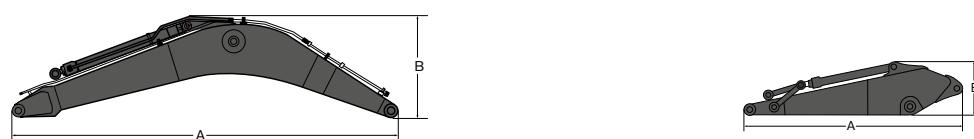
DIMENSIONS

	Unit	EC360F L			EC360F NL		
Boom	m	6.45			6.45		
Arm	m	2.6	3.2	3.9	2.6	3.2	3.9
A. Overall width of upper structure*	mm	2 890	2 890	2 890	2 890	2 890	2 890
B. Overall width**	mm	3 390	3 390	3 390	3 190	3 190	3 190
C. Overall height of cab	mm	3 170	3 170	3 170	3 170	3 170	3 170
D. Overall height of handrail	mm	3 275	3 275	3 275	3 275	3 275	3 275
E. Overall height of guardrail	mm	3 540	3 540	3 540	3 540	3 540	3 540
F. Tail swing radius	mm	3 600	3 600	3 600	3 600	3 600	3 600
G. Overall height of engine hood	mm	2 985	2 985	2 985	2 985	2 985	2 985
H. Counterweight clearance *	mm	1 170	1 170	1 170	1 170	1 170	1 170
I. Tumbler length	mm	4 020	4 020	4 020	4 020	4 020	4 020
J. Track length	mm	4 945	4 945	4 945	4 945	4 945	4 945
K. Track gauge	mm	2 590	2 590	2 590	2 390	2 390	2 390
L. Shoe width	mm	800	800	800	800	800	800
M. Min. ground clearance ***	mm	500	500	500	500	500	500
N. Overall length	mm	11 295	11 205	11 245	11 295	11 205	11 245
O. Overall height of boom	mm	3 685	3 480	3 710	3 685	3 480	3 710

* Exclude walkway, handrail

** Shoe end to end

*** Without shoe grouser



DIMENSIONS

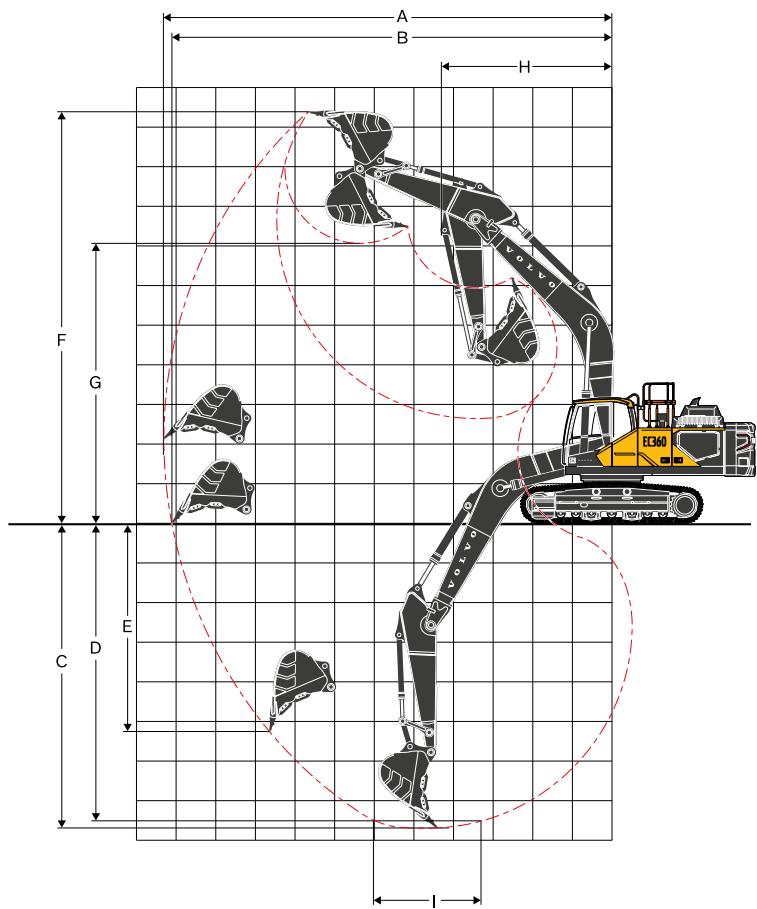
Description	Unit	Boom			
		m	6.45 GP	6.45 HD	6.45 XD
A. Length	mm	6 710	6 710	6 710	
B. Height	mm	1 875	1 875	1 875	
Width	mm	816	816	816	
Weight	kg	3 140	3 325	3 470	

* Includes cylinder, piping and pin, excludes boom cyl. Pin

DIMENSIONS

Description	Unit	Arm					
		m	2.6 HD	3.2 GP	3.2 HD	3.2 XD	3.9 GP
A. Length	mm	3 760	4 345	4 345	4 345	5 045	
B. Height	mm	1 115	1 060	1 060	1 060	1 080	
Width	mm	440	440	440	440	440	
Weight	kg	2 065	1 995	2 115	2 170	2 310	

* Includes cylinder, linkage and pin



WORKING RANGES WITH DIRECT FIT BUCKET

Description	Unit	EC360F L, NL		
Boom	m	6.45		
Arm	m	2.6	3.2	3.9
A. Max. digging reach	mm	10 705	11 225	11 865
B. Max. digging reach on ground	mm	10 485	11 020	11 670
C. Max. digging depth	mm	6 995	7 595	8 295
D. Max.digging depth (l=(2.44 m level)	mm	6 810	7 430	8 150
E. Max. vertical wall digging depth	mm	4 720	5 135	5 715
F. Max. cutting height	mm	10 215	10 380	10 645
G. Max. dumping height	mm	6 945	7 135	7 410
H. Min. front swing radius	mm	4 320	4 295	4 305

DIGGING FORCES WITH DIRECT FIT BUCKET

Breakout force (bucket)	Normal	SAE J1179	kN	176	177	176
	Power boost	SAE J1179	kN	192	192	192
	Normal	ISO 6015	kN	201	201	201
	Power boost	ISO 6015	kN	218	219	219
Tearout force (arm)	Normal	SAE J1179	kN	187	156	136
	Power boost	SAE J1179	kN	203	169	148
	Normal	ISO 6015	kN	192	160	139
Rotation angle, bucket		°		178	178	178

Specifications

GROUND PRESSURE

EC360F L

Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
Triple grouser	600	35 410	67.9	3 190	35 340	67.8	3 190
	600 (HD)	35 460	68.0	3 190	35 380	67.8	3 190
	700	36 040	59.2	3 290	35 970	59.1	3 290
	800	36 430	52.4	3 390	36 350	52.3	3 390
	900	36 810	47.1	3 490	36 740	47.0	3 490
Double grouser	600	36 110	69.1	3 190	36 040	69.0	3 190
Single grouser	750	36 620	56.0	3 340	36 550	55.9	3 340
		EC360F L, 6.45 m GP boom, 2.6 m HD arm, 1 670 kg bucket, 7 000 kg counterweight			EC360F L, 6.45 m GP boom, 3.2 m GP arm, 1 670 kg bucket, 7 000 kg counterweight		
Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
Triple grouser	600	35 660	68.4	3 190	35 600	68.3	3 190
	600 (HD)	35 700	68.5	3 190	35 640	68.3	3 190
	700	36 280	59.6	3 290	36 230	59.5	3 290
	800	36 670	52.7	3 390	36 610	52.6	3 390
	900	37 060	47.4	3 490	37 000	47.3	3 490
Double grouser	600	36 360	69.6	3 190	36 300	69.5	3 190
Single grouser	750	36 860	56.4	3 340	36 810	56.3	3 340
		EC360F L, 6.45 m GP boom, 3.9 m GP arm, 1 670 kg bucket, 7 000 kg counterweight			EC360F L, 6.45 m HD boom, 2.6 m HD arm, 1 670 kg bucket, 7 000 kg counterweight		
Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
Triple grouser	600	35 650	68.4	3 190	35 840	68.8	3 190
	600 (HD)	35 690	68.4	3 190	35 890	68.8	3 190
	700	36 270	59.6	3 290	36 470	59.9	3 290
	800	36 660	52.7	3 390	36 860	53.0	3 390
	900	37 050	47.4	3 490	37 240	47.6	3 490
Double grouser	600	36 350	69.6	3 190	36 540	70.0	3 190
Single grouser	750	36 850	56.3	3 340	37 050	56.6	3 340
		EC360F L, 6.45 m HD boom, 3.2 m HD arm, 1 670 kg bucket, 7 000 kg counterweight			EC360F L, 6.45 m HD boom, 3.9 m GP arm, 1 670 kg bucket, 7 000 kg counterweight		
Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
Triple grouser	600	35 750	68.6	3 190	35 850	68.8	3 190
	600 (HD)	35 790	68.6	3 190	35 890	68.8	3 190
	700	36 370	59.8	3 290	36 470	59.9	3 290
	800	36 760	52.9	3 390	36 860	53.0	3 390
	900	37 150	47.5	3 490	37 250	47.6	3 490
Double grouser	600	36 450	69.8	3 190	36 550	70.0	3 190
Single grouser	750	36 950	56.5	3 340	37 050	56.6	3 340
		EC360F L, 6.45 m XD boom, 2.6 m HD arm, 1 670 kg bucket, 7 000 kg counterweight			EC360F L, 6.45 m XD boom, 3.2 m XD arm, 1 670 kg bucket, 7 000 kg counterweight		

GROUND PRESSURE
EC360F NL

Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
Triple grouser	600	35 270	67.7	3 190	35 190	67.5	3 190
	600 (HD)	35 310	67.7	3 190	35 240	67.6	3 190
	700	35 890	59.0	3 290	35 820	58.9	3 290
	800	36 280	52.2	3 390	36 210	52.1	3 390
	900	36 670	46.9	3 490	36 590	46.8	3 490
Double grouser	600	35 960	68.9	3 190	35 890	68.7	3 190
Single grouser	750	36 470	55.8	3 340	36 400	55.6	3 340
		EC360F NL, 6.45 m GP boom, 2.6 m HD arm, 1 670 kg bucket, 7 000 kg counterweight			EC360F NL, 6.45 m GP boom, 3.2 m GP arm, 1 670 kg bucket, 7 000 kg counterweight		
Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
Triple grouser	600	35 510	68.1	3 190	35 450	68.0	3 190
	600 (HD)	35 550	68.2	3 190	35 500	68.1	3 190
	700	36 130	59.4	3 290	36 080	59.3	3 290
	800	36 520	52.5	3 390	36 470	52.4	3 390
	900	36 910	47.2	3 490	36 850	47.1	3 490
Double grouser	600	36 210	69.3	3 190	36 150	69.2	3 190
Single grouser	750	36 710	56.1	3 340	36 660	56.0	3 340
		EC360F NL, 6.45 m GP boom, 3.9 m GP arm, 1 670 kg bucket, 7 000 kg counterweight			EC360F NL, 6.45 m HD boom, 2.6 m HD arm, 1 670 kg bucket, 7 000 kg counterweight		
Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
Triple grouser	600	35 500	68.1	3 190	35 700	68.5	3 190
	600 (HD)	35 540	68.1	3 190	35 740	68.5	3 190
	700	36 130	59.4	3 290	36 320	59.7	3 290
	800	36 510	52.5	3 390	36 710	52.8	3 390
	900	36 900	47.2	3 490	37 100	47.4	3 490
Double grouser	600	36 200	69.3	3 190	36 400	69.7	3 190
Single grouser	750	36 710	56.1	3 340	36 900	56.4	3 340
		EC360F NL, 6.45 m HD boom, 3.2 m HD arm, 1 670 kg bucket, 7 000 kg counterweight			EC360F NL, 6.45 m HD boom, 3.9 m GP arm, 1 670 kg bucket, 7 000 kg counterweight		

Specifications

BUCKET SELECTION GUIDE

EC360F L with 600 mm shoe, 7 000 kg counterweight

Bucket Type		Capacity	Cutting width	Weight	Teeth	Recommended maximum material density (kg/m³)							
						6.45 m GP Boom			6.45 m HD Boom			6.45 m XD Boom	
		L	mm	kg	EA	H2.6 m Arm	G3.2 m Arm	G3.9 m Arm	H2.6 m Arm	G3.2 m Arm	G3.9 m Arm	H2.6 m Arm	X3.2 m Arm
Without Quick Coupler	GP	870	750	1 082	3	C	C	C	C	C	C	C	C
		1 000	900	1 281	4	C	C	C	C	C	C	C	C
		1 420	1 200	1 514	5	C	C	C	C	C	C	C	C
		1 670	1 350	1 629	5	C	C	C	C	C	C	C	C
		1 800	1 450	1 755	5	C	C	C	C	C	C	C	C
		1 920	1 500	1 769	5	C	C	B	C	C	B	C	C
		2 000	1 580	1 859	5	C	C	B	C	C	B	C	C
	HD	2 330	1 750	1 967	5	C	B	A	C	B	A	C	B
		1 000	900	1 425	4	D	D	D	D	D	D	D	D
		1 420	1 200	1 600	4	D	D	D	D	D	D	D	D
		1 420	1 200	1 679	4	D	D	D	D	D	D	D	D
		1 670	1 380	1 722	4	D	D	C	D	D	C	D	D
		1 670	1 380	1 801	4	D	D	C	D	D	C	D	D
		1 670	1 380	1 570	5	D	D	D	D	D	D	D	D
Direct fit Buckets	ED	1 670	1 380	1 821	5	D	D	C	D	D	C	D	D
		1 920	1 500	1 864	5	D	C	B	D	C	B	D	C
		1 920	1 500	1 890	5	D	C	B	D	C	B	D	C
		1 920	1 500	1 944	5	D	C	B	D	C	B	D	C
		1 920	1 500	1 970	5	D	C	B	D	C	B	D	C
		1 920	1 530	2 368	4	C	C	A	C	B	A	C	B
		2 330	1 780	2 617	4	B	A	X	B	X	X	B	X
	HC	2 440	1 600	1 796	5	C	B	A	C	B	A	C	B
		870	750	1 082	3	C	C	C	C	C	C	C	C
		1 000	900	1 281	4	C	C	C	C	C	C	C	C
		1 420	1 200	1 514	5	C	C	C	C	C	C	C	C
		1 670	1 350	1 629	5	C	C	B	C	C	B	C	C
		1 800	1 450	1 755	5	C	C	A	C	B	A	C	B
		1 920	1 500	1 769	5	C	B	X	C	B	X	C	B
Quick Coupler Buckets	GP	2 000	1 580	1 859	5	C	B	X	B	B	X	B	B
		2 330	1 750	1 967	5	B	X	X	B	X	X	B	X
		1 000	900	1 425	4	D	D	D	D	D	D	D	D
		1 420	1 200	1 600	4	D	D	C	D	D	C	D	D
		1 420	1 200	1 679	4	D	D	C	D	D	C	D	D
		1 670	1 380	1 722	4	D	C	B	D	C	B	D	C
		1 670	1 380	1 801	4	D	C	B	D	C	B	D	C
	HD	1 670	1 380	1 570	5	D	C	B	D	C	B	D	C
		1 670	1 380	1 821	5	D	C	B	D	C	B	D	C
		1 920	1 500	1 864	5	C	B	X	C	B	X	C	B
		1 920	1 500	1 890	5	C	B	X	C	B	X	C	B
		1 920	1 500	1 944	5	C	B	X	C	B	X	B	B
		1 920	1 500	1 970	5	C	B	X	C	B	X	B	B
		1 920	1 530	2 368	4	B	A	X	B	X	X	B	X
S-quick coupler	HC	2 440	1 600	1 796	5	B	X	X	B	X	X	B	X
		1 000	900	1 328	4	C	C	C	C	C	C	C	C
		1 180	1 050	1 419	4	C	C	C	C	C	C	C	C
		1 420	1 200	1 571	5	C	C	C	C	C	C	C	C
		1 670	1 350	1 686	5	C	C	B	C	C	B	C	C
		1 920	1 500	1 809	5	C	C	A	C	B	A	C	B
		1 000	900	1 320	4	D	D	D	D	D	D	D	D
	ED	1 000	900	1 400	4	D	D	D	D	D	D	D	D
		1 420	1 200	1 655	5	D	D	C	D	D	C	D	D
		1 670	1 350	1 703	5	D	D	B	D	C	B	D	C
		1 670	1 350	1 782	5	D	C	B	D	C	B	D	C
		1 670	1 350	1 605	5	D	D	B	D	D	B	D	C
		1 920	1 500	1 823	5	C	C	A	C	B	A	C	B
		1 920	1 500	1 848	5	C	B	A	C	B	A	C	B

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 load : Payload, bucket and additional tools such as quick coupler, rotator,

VA Boom : Variable angle boom or two-piece boom

Maximum material density

D: 2 100 kg/m³ (3 500 lb/yd³)

C: 1 800 kg/m³ (3 100 lb/yd³)

B: 1 500 kg/m³ (2 500 lb/yd³)

A: 1 200 kg/m³ (2 000 lb/yd³)

X : Not recommended

BUCKET SELECTION GUIDE
EC360F NL with 600 mm shoe, 7 000 kg counterweight

Bucket Type			Capacity	Cutting width	Weight	Teeth	Recommended maximum material density (kg/m ³)						
							6.45 m GP Boom			6.45 m HD Boom			
	L	mm	kg	EA	H2.6 m Arm	G3.2 m Arm	G3.9 m Arm	H2.6 m Arm	G3.2 m Arm	G3.9 m Arm			
Without Quick Coupler	GP	870	750	1 082	3	C	C	C	C	C	C	C	
		1 000	900	1 281	4	C	C	C	C	C	C	C	
		1 420	1 200	1 514	5	C	C	C	C	C	C	C	
		1 670	1 350	1 629	5	C	C	C	C	C	C	C	
		1 800	1 450	1 755	5	C	C	B	C	C	C	B	
		1 920	1 500	1 769	5	C	C	B	C	C	C	B	
		2 000	1 580	1 859	5	C	B	A	C	B	A	A	
	HD	2 330	1 750	1 967	5	B	B	X	B	A	A	X	
		1 000	900	1 425	4	D	D	D	D	D	D	D	
		1 420	1 200	1 600	4	D	D	D	D	D	D	D	
		1 420	1 200	1 679	4	D	D	D	D	D	D	C	
		1 670	1 380	1 722	4	D	D	B	D	D	D	B	
		1 670	1 380	1 801	4	D	D	C	D	D	C	B	
		1 670	1 380	1 821	5	D	D	B	D	C	B	B	
Direct fit Buckets	ED	1 920	1 500	1 864	5	C	C	B	C	B	B	B	
		1 920	1 500	1 890	5	C	C	A	C	B	A	A	
		1 920	1 500	1 944	5	C	B	A	C	B	B	A	
		1 920	1 500	1 970	5	C	B	A	C	B	B	A	
		1 920	1 530	2 368	4	B	B	X	B	B	B	X	
		2 330	1 780	2 617	4	X	X	X	X	X	X	X	
		HC	2 440	1 600	1 796	5	B	B	X	B	A	X	
	U type Quick Coupler	GP	870	750	1 082	3	C	C	C	C	C	C	
			1 000	900	1 281	4	C	C	C	C	C	C	
			1 420	1 200	1 514	5	C	C	B	C	C	B	
			1 670	1 350	1 629	5	C	B	X	C	B	X	
			1 800	1 450	1 755	5	B	B	X	B	B	X	
			1 920	1 500	1 769	5	B	A	X	B	A	X	
			2 000	1 580	1 859	5	B	X	X	B	X	X	
	HD		2 330	1 750	1 967	5	X	X	X	X	X	X	
			1 000	900	1 425	4	D	D	D	D	D	D	
			1 420	1 200	1 600	4	D	C	B	D	C	B	
			1 420	1 200	1 679	4	D	C	B	D	C	B	
			1 670	1 380	1 722	4	C	B	X	C	B	X	
			1 670	1 380	1 801	4	C	B	X	C	B	X	
			1 670	1 380	1 821	5	C	B	A	C	B	A	
Quick Coupler Buckets	ED	HC	1 920	1 500	1 864	5	B	A	X	B	X	X	
			1 920	1 500	1 890	5	B	A	X	B	X	X	
			1 920	1 500	1 944	5	B	X	X	B	X	X	
			1 920	1 500	1 970	5	B	X	X	B	X	X	
			1 920	1 530	2 368	4	X	X	X	X	X	X	
			2 330	1 780	2 617	4	X	X	X	X	X	X	
			HC	2 440	1 600	1 796	5	X	X	X	X	X	
	S-quick coupler	GP	1 000	900	1 328	4	C	C	C	C	C	C	
			1 180	1 050	1 419	4	C	C	C	C	C	C	
			1 420	1 200	1 571	5	C	C	C	C	C	B	
			1 670	1 350	1 686	5	C	C	A	C	C	A	
			1 920	1 500	1 809	5	B	B	X	B	B	X	
		HD	1 000	900	1 320	4	D	D	D	D	D	D	
			1 000	900	1 400	4	D	D	D	D	D	D	
	ED		1 420	1 200	1 655	5	D	D	B	D	D	B	
			1 670	1 350	1 703	5	C	C	A	C	B	A	
			1 670	1 350	1 782	5	C	C	A	C	B	A	
			1 670	1 350	1 605	5	D	C	B	D	C	B	
			1 920	1 500	1 823	5	B	B	X	B	B	X	
			1 920	1 500	1 848	5	B	B	X	B	B	X	
			1 920	1 500	1 902	5	B	B	X	B	A	X	
			1 920	1 500	1 928	5	B	B	X	B	A	X	
			1 920	1 530	2 320	4	B	X	X	A	X	X	
			2 330	1 780	2 563	4	X	X	X	X	X	X	

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 load : Payload, bucket and additional tools such as quick coupler, rotator,

VA Boom : Variable angle boom or two-piece boom

Maximum material density

D: 2 100 kg/m³ (3 500 lb/yd³)

C: 1 800 kg/m³ (3 100 lb/yd³)

B: 1 500 kg/m³ (2 500 lb/yd³)

A: 1 200 kg/m³ (2 000 lb/yd³)

X: Not recommended

Specifications

LIFTING CAPACITY EC360F L

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	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		Max. m		
		Along UC	Across UC	Along UC	Across UC													
Boom : 6.45 m HD Arm : 2.6 m HD Shoe : 600 mm CWT : 7 000 kg	7.5 m kg															*9 240 8 090 7.0 m		
	6 m kg							*9 780	*9 780	*9 170	7 180					*9 170 6 480 8.0 m		
	4.5 m kg					*14 290	*14 290	*11 160	9 820	*9 710	6 980					8 660 5 660 8.5 m		
	3 m kg							*12 790	9 270	10 390	6 720					8 090 5 250 8.8 m		
	1.5 m kg							*14 120	8 830	10 130	6 470					7 940 5 120 8.8 m		
	0 m kg					*20 150	12 990	13 930	8 580	9 960	6 320					8 190 5 260 8.6 m		
	-1.5 m kg			*14 420	*14 420	*19 400	13 030	13 870	8 530	9 920	6 290					8 980 5 740 8.1 m		
	-3 m kg			*23 290	*23 290	*17 650	13 240	*13 510	8 650							10 730 6 820 7.2 m		
	-4.5 m kg			*18 460	*18 460	*14 180	13 700									*10 670 9 500 5.8 m		
Boom : 6.45 m HD Arm : 3.2 m HD Shoe : 600 mm CWT : 7 000 kg	7.5 m kg									*8 310	7 400					*7 510 7 110 7.7 m		
	6 m kg									*8 420	7 330					*7 310 5 860 8.5 m		
	4.5 m kg					*12 780	*12 780	*10 320	10 030	*9 100	7 100	8 020	5 260	*7 380	5 180 9.1 m			
	3 m kg					*16 420	14 360	*12 060	9 450	*10 000	6 800	7 880	5 130	7 430	4 830 9.3 m			
	1.5 m kg					*19 100	13 430	*13 610	8 950	10 190	6 530	7 740	5 000	7 300	4 710 9.4 m			
	0 m kg					*20 110	13 030	13 990	8 630	9 970	6 330	7 640	4 900	7 490	4 810 9.1 m			
	-1.5 m kg			*14 620	*14 620	*19 890	12 960	13 840	8 500	9 870	6 240				8 090 5 180 8.6 m			
	-3 m kg			*17 030	*17 030	*23 090	*23 090	*18 620	13 090	13 890	8 550	9 940	6 310		9 380 5 980 7.8 m			
	-4.5 m kg			*21 550	*21 550	*15 930	13 440	*11 930	8 800						*10 460 7 800 6.6 m			
Boom : 6.45 m HD Arm : 3.9 m GP Shoe : 600 mm CWT : 7 000 kg	9 m kg															*6 310 *6 310 7.3 m		
	7.5 m kg									*7 180	*7 180					*5 890 *5 890 8.4 m		
	6 m kg									*7 500	7 450	*7 020	5 410	*5 750	5 150	9.2 m		
	4.5 m kg							*9 180	*9 180	*8 260	7 180	*7 780	5 300	*5 790	4 610	9.7 m		
	3 m kg					*14 550	*14 550	*11 010	9 600	*9 260	6 850	7 900	5 130	*6 010	4 310	10 m		
	1.5 m kg					*17 760	13 640	*12 770	9 010	10 200	6 520	7 710	4 960	*6 420	4 200	10 m		
	0 m kg					*8 990	*8 990	*19 510	13 000	13 970	8 590	9 920	6 270	7 550	4 820	6 680 4 260 9.8 m		
	-1.5 m kg			*9 180	*9 180	*13 740	*13 740	*19 930	12 770	13 720	8 370	9 750	6 120	7 480	4 750	7 120 4 530 9.3 m		
	-3 m kg			*14 320	*14 320	*19 870	*19 870	*19 240	12 800	13 680	8 340	9 740	6 110		8 050 5 110 8.6 m			
	-4.5 m kg			*20 490	*20 490	*24 330	*24 330	*17 310	13 050	*13 020	8 490				*9 770 6 320 7.5 m			
	-6 m kg			*18 300	*18 300	*13 300	*13 300								*9 910 9 480 5.8 m			
Boom : 6.45 m HD Arm : 2.6 m HD Shoe : 800 mm CWT : 7 000 kg	7.5 m kg															*9 240 8 270 7.0 m		
	6 m kg							*9 790	*9 790	*9 170	7 360					*9 170 6 640 8.0 m		
	4.5 m kg					*14 310	*14 310	*11 160	10 050	*9 710	7 160					8 890 5 810 8.5 m		
	3 m kg							*12 790	9 500	*10 510	6 890					8 310 5 390 8.8 m		
	1.5 m kg					*14 130	9 060	10 400	6 650							8 170 5 270 8.8 m		
	0 m kg					*20 140	13 330	14 320	8 820	10 230	6 500					8 430 5 410 8.6 m		
	-1.5 m kg			*14 470	*14 470	*19 400	13 370	14 250	8 760	10 200	6 470					9 230 5 900 8.1 m		
	-3 m kg			*23 280	*23 280	*17 640	13 590	*13 500	8 890						*10 740 7 010 7.2 m			
	-4.5 m kg			*18 440	*18 440	*14 160	14 050									*10 660 9 760 5.8 m		
Boom : 6.45 m HD Arm : 3.2 m HD Shoe : 800 mm CWT : 7 000 kg	7.5 m kg									*8 310	7 570					*7 520 7 270 7.7 m		
	6 m kg									*8 420	7 500					*7 310 6 000 8.5 m		
	4.5 m kg							*12 790	*12 790	*10 320	10 260	*9 100	7 270	*8 090	5 400	*7 390 5 320 9.1 m		
	3 m kg							*16 430	14 700	*12 070	9 680	*10 010	6 980	8 100	5 270	7 640 4 970 9.3 m		
	1.5 m kg							*19 100	13 770	*13 620	9 180	10 470	6 700	7 960	5 140	7 510 4 850 9.4 m		
	0 m kg							*20 110	13 370	14 370	8 860	10 250	6 500	7 860	5 040	7 700 4 950 9.1 m		
	-1.5 m kg							*14 650	*14 650	*19 890	13 300	14 220	8 730	10 150	6 420		8 320 5 330 8.6 m	
	-3 m kg							*17 060	*17 060	*23 130	*23 130	18 610	13 440	*14 080	8 780	10 220	6 480	9 660 6 150 7.8 m
	-4.5 m kg															*10 460 8 020 6.6 m		
Boom : 6.45 m HD Arm : 3.9 m GP Shoe : 800 mm CWT : 7 000 kg	9 m kg															*6 310 *6 310 7.3 m		
	7.5 m kg															*5 890 *5 890 8.4 m		
	6 m kg																	
	4.5 m kg																	
	3 m kg																	
	1.5 m kg																	
	0 m kg																	
	-1.5 m kg																	
	-3 m kg																	
	-4.5 m kg																	
	-6 m kg																	

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 EC360F NL

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	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		Max. m
		Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom : 6.45 m GP Arm : 2.6 m HD Shoe : 600 mm CWT : 7 000 kg	7.5 m kg															*9 270 7 480 7.0 m
	6 m kg							*9 810 9 520	*9 200 6 640							*9 200 5 990 8.0 m
	4.5 m kg					*14 330 13 870	*11 190 9 050	*9 750 6 450								8 630 5 230 8.5 m
	3 m kg							*12 840 8 520	10 360 6 190							8 060 4 840 8.8 m
	1.5 m kg							14 170 8 100	10 100 5 960							7 920 4 720 8.8 m
	0 m kg					*20 240 11 800	13 900 7 870	9 930 5 820								8 180 4 850 8.6 m
	-1.5 m kg					*14 420*14 420	*19 500 11 850	13 840 7 820	9 900 5 790							8 960 5 290 8.1 m
	-3 m kg					*23 430*23 430	*17 750 12 050	*13 580 7 940								10 710 6 280 7.2 m
Boom : 6.45 m GP Arm : 3.2 m GP Shoe : 600 mm CWT : 7 000 kg	-4.5 m kg					*18 590*18 590	*14 270 12 480									*10 730 8 730 5.8 m
	7.5 m kg															*7 540 6 630 7.7 m
	6 m kg															*7 340 5 480 8.5 m
	4.5 m kg					*12 900*12 900*10 430	9 310	*9 210 6 620	8 050 4 920	*7 410 4 850	9 1 m					
	3 m kg					*16 600 13 200	*12 200 8 770	*10 130 6 340	7 920 4 800	7 470 4 520	9 3 m					
	1.5 m kg					*19 320 12 340	*13 780 8 300	10 230 6 090	7 780 4 670	7 340 4 410	9 4 m					
	0 m kg					*20 350 11 980	14 050 8 010	10 020 5 900	7 690 4 590	7 530 4 500	9.1 m					
	-1.5 m kg					*14 650*14 650	*20 130 11 910	13 910 7 890	9 930 5 820						8 140 4 840 8.6 m	
Boom : 6.45 m GP Arm : 3.9 m GP Shoe : 600 mm CWT : 7 000 kg	-3 m kg					*17 050*17 050	*23 110*23 110*18 850	12 040 13 960	7 930 9 990	5 880						9 430 5 580 7.8 m
	-4.5 m kg					*21 850*21 850	*16 150 12 350	*12 100 8 170								*10 610 7 250 6.6 m
	9 m kg															*6 310 *6 310 7.3 m
	7.5 m kg															*5 890 5 650 8.4 m
	6 m kg															*5 750 4 760 9.2 m
	4.5 m kg							*9 200 *9 200	*8 290 6 630	*7 810 4 890	*5 790 4 250	9.7 m				
	3 m kg					*14 600 13 500	*11 050 8 820	*9 300 6 310	7 870 4 730	*6 010 3 970	10 m					
	1.5 m kg					*17 830 12 400	*12 820 8 260	10 160 6 000	7 680 4 560	*6 420 3 860	10 m					
Boom : 6.45 m GP Arm : 2.6 m HD Shoe : 800 mm CWT : 7 000 kg	0 m kg					*8 990 *8 990	*19 600 11 800	13 920 7 860	9 890 5 760	7 530 4 430	6 660 3 910	9.8 m				
	-1.5 m kg					*9 180 *9 180	*13 740*13 740	*20 020 11 580	13 680 7 660	9 730 5 620	7 460 4 360	7 100 4 160	9.3 m			
	-3 m kg					*14 320*14 320	*19 870*19 870	*19 340 11 620	13 650 7 630	9 710 5 600						8 030 4 700 8.6 m
	-4.5 m kg					*20 490*20 490	*24 470 23 420	*17 410 11 850	*13 090 7 780						*9 820 5 810 7.5 m	
	-6 m kg					*18 430*18 430	*13 380 12 360									*9 980 8 700 5.8 m
	7.5 m kg															*9 270 7 580 7.0 m
	6 m kg															*9 200 6 080 8.0 m
	4.5 m kg					*14 350 14 050	*11 200 9 180	*9 750 6 550								8 770 5 310 8.5 m
Boom : 6.45 m GP Arm : 3.2 m GP Shoe : 800 mm CWT : 7 000 kg	3 m kg							*12 840 8 650	10 530 6 290							8 200 4 920 8.8 m
	1.5 m kg							*14 190 8 230	10 270 6 060							8 060 4 800 8.8 m
	0 m kg					*20 240 11 990	14 130 8 000	10 100 5 910								8 320 4 930 8.6 m
	-1.5 m kg					*14 470*14 470	*19 500 12 040	14 070 7 950	10 070 5 890							9 120 5 380 8.1 m
	-3 m kg					*23 420*23 420	*17 740 12 240	*13 570 8 070								*10 800 6 390 7.2 m
	-4.5 m kg					*18 560*18 560	*14 250 12 680									*10 730 8 880 5.8 m
	7.5 m kg															*7 540 6 720 7.7 m
	6 m kg															*7 340 5 560 8.5 m
Boom : 6.45 m GP Arm : 3.9 m GP Shoe : 800 mm CWT : 7 000 kg	4.5 m kg					*12 920*12 920	*10 440 9 440	*9 210 6 740								*7 410 4 930 9.1 m
	3 m kg							*12 840 8 650	10 530 6 290							8 200 4 920 8.8 m
	1.5 m kg							*14 190 8 230	10 270 6 060							8 060 4 800 8.8 m
	0 m kg							*20 240 11 990	14 130 8 000	10 100 5 910						8 320 4 930 8.6 m
	-1.5 m kg							*14 470*14 470	*19 500 12 040	14 070 7 950	10 070 5 890					9 120 5 380 8.1 m
	-3 m kg							*17 080*17 080	*23 150*23 150	*18 840 12 230	14 200 8 060	10 170 5 980				9 600 5 680 7.8 m
	-4.5 m kg							*21 830*21 830	*16 130 12 540	*12 090 8 300						*10 610 7 380 6.6 m
	9 m kg															*6 310 *6 310 7.3 m
Boom : 6.45 m GP Arm : 3.2 m GP Shoe : 800 mm CWT : 7 000 kg	7.5 m kg															*5 890 5 730 8.4 m
	6 m kg															*5 750 4 830 9.2 m
	4.5 m kg															*5 800 4 320 9.7 m
	3 m kg															*6 010 4 040 10 m
	1.5 m kg															*6 420 3 930 10 m
	0 m kg															*6 780 3 990 9.8 m
	-1.5 m kg															*7 240 4 240 9.3 m
	-3 m kg															8 180 4 780 8.6 m
Boom : 6.45 m GP Arm : 3.9 m GP Shoe : 800 mm CWT : 7 000 kg	-4.5 m kg															*9 820 5 920 7.5 m
	-6 m kg															*9 980 8 860 5.7 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.

Equipment

STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

Engine

Turbocharged, 6 stroke diesel engine with water cooling, direct injection and charged air cooler that meets EU StageV/NA T4f requirements	•
Cooling system by fan clutch	•
New work mode with 10 steps	•
Cyclone pre-cleaner	•
Fuel shut off valve	•
Engine block heater	o
Coolant heater by diesel	o
Reversible fan drive	o
Precleaner, oil bath	o
Air filter, High efficiency	o
Delayed engine Shutdown	o
Automatic engine shutdown	o
Water separator with heater	o

Electric / electronic control system

Anti-theft with code lock system	•
Alternator, 120 A	•
Automatic idling system	•
Lock Out / Tag Out function on main battery switch	•
Standard light	•
Basic light package	o
Advanced light package	o
Deluxe light package	o
Arm light	o
LH light	o

Undercarriage and structures

3-point side access	•
Direct filling DEF(AdBlue) / Splash guard	•
Openable 3 piece hood	•
Guardrail, fixed/foldable	o
Inner rail	o
SIPS (Side Impact Protection Steel)	o
HD Side door & hood with screen	o
Without lower structure	o
Lower frame,NLC	o
Link 600 / 700 / 800 / 900 mm triple grouser shoe	o
Link 600 mm triple grouser shoe, HD	o
Link 600 mm double grouser shoe	o
Link 750 mm single grouser shoe	o

Hydraulic system

EH(Electro-Hydraulic) control system	•
Auto power boost	•
One touch power boost	•
Priority Adjustment	•
Boom down speed control	•
Shock reduction function	•
Joystick, Semi-long / 4 switch / 4 switch & 1 proportional / Simple L8 / L8	o
Hydraulic oil mineral 32 / 46 / 68	o
Longlife hyd oil mineral 32 / 46 / 68	o
Hydraulic oil bio 46	o
Pattern change	o
Boom float function	o
Straight travel pedal	o
Comfort driving control	o
Creep mode	o
Variable X3 P-Q control	o
Hose rupture valve for boom	•
Hose rupture valve for arm	•

STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

Machine control technology

Kinematic sensor package	•
Volvo Co-Pilot 2nd display, 12.8" touchable Full HD	•
Dig Assist, Start	o
Dig Assist, 2D	o
Dig Assist, In-Field Design	o
Dig Assist, Topcon 3D-MC	o
Dig Assist, Infield-Design Advanced	o
Dig Assist, On-Board Weighing	o
Dig Assist, Laser Receiver	o
Volvo Active Control	o
Dig Assist, Boundary Limit	o

Cab and interior

Keyless engine start and stop	•
8" HD display	•
ROPS certified cab	•
Tilttable left console	•
Digital hour meter	•
Wireless mobile charger with Kinematic sensor package option	•
Various storage space with cool/heated	•
Cleaning air gun	o
One piece windshield cab	o
High visibility cab	o
Cabin large mirror, Heated	o
Cabin large mirror	o
Basic / Premium / Deluxe seat	o
Seat belt, 2 inch 2 point / 3 inch 2 point / 3 inch 3 point	o
Climate control-HEPA filter	o
Radio with MP3 / USB / Bluetooth	o
Front rain shield	o
Sun screen	o
Lower wiper	o
Sun shield, roof hatch	o
Foot rest, High mount	o
FOG (Falling Object Guard)	o
FOPS (Falling Object Protection Structure)	o
Safety net	o

Digging equipment

Boom: 6.45 m monoblock	•
Arm: 3.2 m	•
Arm: 2.6 m	o
Arm: 3.9 m	o

Safety and security

Travel alarm, beep / white noise	o
Flashing beacon, LED	o
Green light beacon	o
Rear view camera	•
Side view camera	•
HD VSV(Volvo Smart View)	o
HD VSV with obstacle detection	o
Provision, HD VSV with obstacle detection	o

Service and maintenance

Swing out A/C condenser	•
Fuel filler pump	o
Quick Hydraulic Oil Fill connection	o
Jump start connector	o
Auto lubrication system	o
Tool kit	o

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