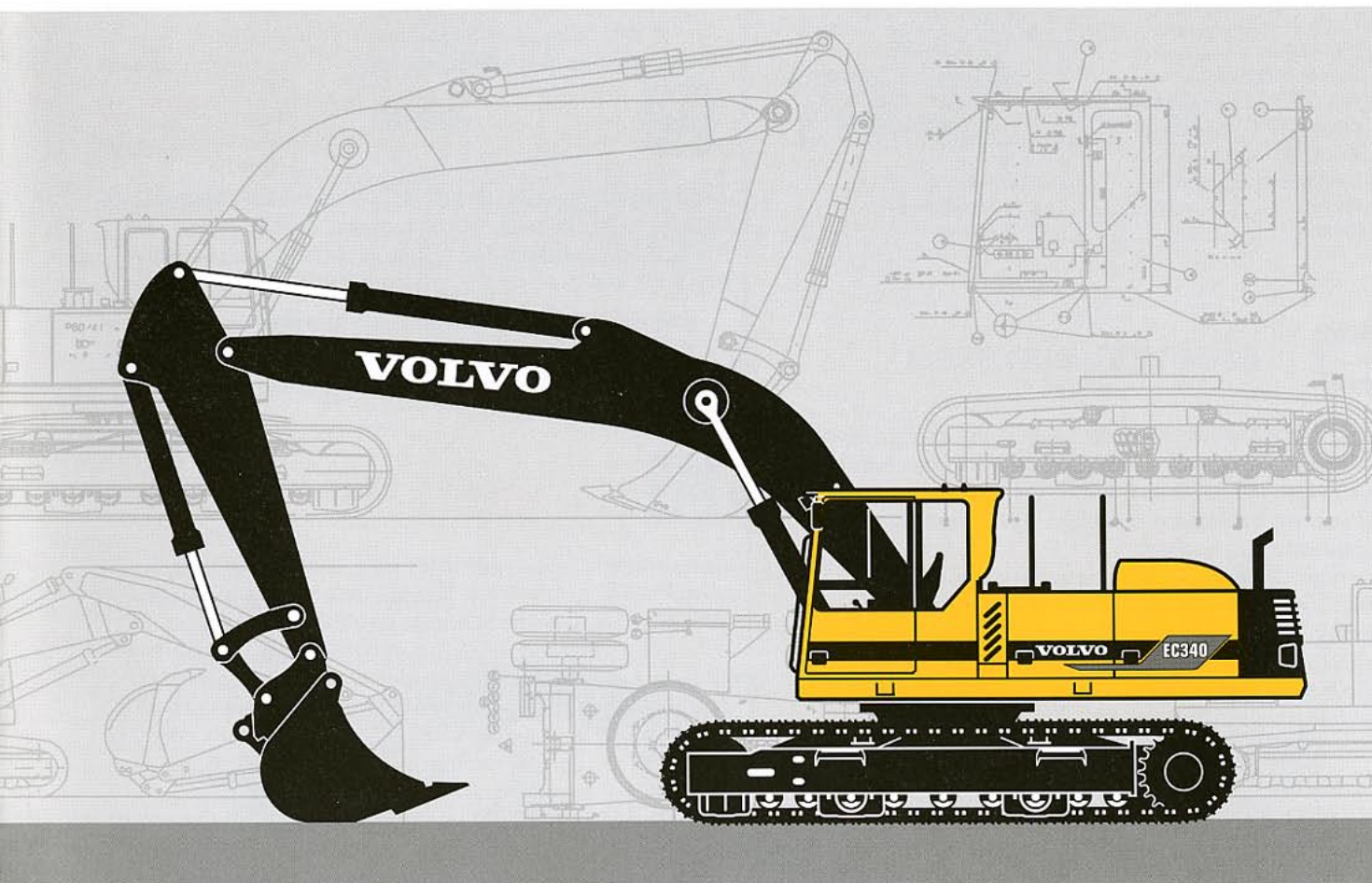


**VOLVO EXCAVATOR**

# EC340



- **Engine power, gross:**  
190 kW (258 hp)
- **Operating weight:**  
33,5 – 36,7 t
- **Buckets:**  
1 150 – 2 750 l
- Low-emission, turbocharged Volvo diesel engine with direct injection and intercooler
- Mode selector and electronically controlled Speed Sensing Control (SSC)
- 3 pumps in 3 circuits. Each movement of the digging equipment is prioritized by its own circuit, ensuring independent movements and good precision.
- Care Cab
  - computerized monitoring system, Contronic E
  - ergonomic environment
  - low sound level
  - filtered air
- Rugged digging equipment with spherical steel bearings
- High lifting, breakout and tearout forces for tough digging conditions
- Long undercarriage for good stability
- Slew circuit in oil bath
- Prepared for a number of optional items of equipment
- Low transport dimensions
- High travel speed – 5,0 km/h

**VOLVO**



## ENGINE

The engine is a low-emission, turbocharged, 4-stroke diesel engine with intercooler, specially developed for excavator use. The machine can work at low engine speeds, contributing to good fuel economy, low sound level, less wear and longer life. Daily checkup of oil and coolant levels etc. is done directly from the cab.

**Air filter:** 3-stage

**Auto Decelerator:** Reduces the engine speed to an idling speed when levers and pedals are not activated.

Make .....	Volvo
Model .....	TD 103 KAE
Power output at .....	28,3 r/s (1 700 r/min)
Net (ISO 9249 / DIN 6271) .....	182 kW (247 hp)
Gross (SAE J1349) .....	190 kW (258 hp)
No. of cylinders .....	6
Displacement, total .....	9,6 l
Bore .....	120,65 mm
Stroke .....	140 mm



## ELECTRICAL SYSTEM

Well-protected electrical system with high capacity. Electrical distribution box based on printed circuit boards contains clearly arranged fuses and relays. The distribution box is prepared for connection of optional equipment. Battery disconnecter is standard.

Advanced **Contronic E monitoring system**, offering exhaustive information on machine status and enabling the operator to seek specific information and make his own adjustments, is standard. Alarms are indicated on the display in the form of flashing lights, with supplementary information in plain text.

Voltage .....	24 V
Batteries .....	2 x 12 V
Battery capacity .....	170 Ah
Alternator .....	28 V / 55 A
Alternator rating .....	1 540 W



## SLEW SYSTEM

The superstructure is slewed by means of an axial piston motor and a planetary gearbox. Slew priority with 3 power positions. Automatic slew holding brake. The slew ring works in an oil bath.

Slew, start to stop*	
90° slew .....	4,9 s
180° slew .....	7,1 s
Slew speed .....	8,6 r/min

\* Empty bucket – extended equipment.



## SERVICE REFILL CAPACITIES

Fuel tank .....	720 l
Hydraulic system, total .....	470 l
Diesel engine oil .....	37,5 l
Cooling system incl. glycol .....	58 l
Slew ring .....	24 l



## UNDERCARRIAGE

Undercarriage with robust frame construction. Permanently lubricated rollers and front idlers. Three derailing shields are standard.

The undercarriage is operated by means of rocker pedals.

**Undercarriage alternatives:** narrow or wide.

Track chain size .....	B6HD
No. of track shoes .....	2 x 53
Track gauge .....	600 mm
alt. ....	700/800/900 mm
No. of bottom rollers .....	2 x 9
No. of top rollers .....	2 x 2
alt. skid rails .....	2 x 1



## DRIVE

Each track is powered by an axial-piston motor. The track brakes are of the multi-disc type, spring-applied and hydraulically released. Travel motors, brakes and planetary gears are well protected in the track frame.

Max. tractive force, gross .....	332 kN
Max. tractive force, net .....	245 kN
Max. travel speed .....	5,0 km/h
Gradeability .....	49°



## CARE CAB

Easily accessible cab with wide door opening. Lined with sound-absorbent material. The cab mountings are vibration-inhibiting. Large glazed surfaces all around. The upper windshield pane can be slid up into the ceiling and the lower one can be removed. Sliding side window in the cab door.

**Cab heater and defroster:** Pressurized and filtered cab air is supplied by a 3-speed fan underneath the operator's seat. The air passes through the cab heater and can be distributed via 14 nozzles. Prepared for air conditioning.

**Ergonomic operator's seat:** Electrically heated operator's seat with adjustable suspension and headrest. The fore/aft position, height and angle of the seat are adjustable, as is the lumbar support. Individually adjustable armrests and control levers.

**Sound level:** Approved according to Directive 86/662/EEC.

Exterior noise (ISO 6 395)	
mean value of $L_{wa}$ (sound power level)	107 dB(A)
Operator's position (ISO 6 396)	
with the door closed	
mean value of $L_{pA}$ (sound pressure level)	72 dB(A)



## GROUND PRESSURE

Machine with 6,7 m boom, 2,9 m dipper arm, quickfit 300 kg, 1 450 kg bucket, 6 300 kg counterweight and wide undercarriage.

Track gauge	Operating weight	Ground pressure
600 mm	35 250 kg / 34 900*	63,6 / 63,0* kPa
700 mm	35 650 kg / 35 350*	55,2 / 54,7* kPa
800 mm	36 100 kg / 35 750*	48,9 / 48,4* kPa
900 mm	36 500 kg / 36 200*	43,9 / 43,5* kPa

\* Machine with 6,0 m boom, 1 300 kg bucket and narrow undercarriage



## HYDRAULIC SYSTEM

The three-circuit hydraulic system, named "Excellence", is designed for high digging capacity, high manoeuvring precision and good fuel economy.

The three working pumps are power-controlled, and each can be directed to its own particular equipment movement for precision work. One pump is prioritized to the swing movement.

The following important functions are included in the system:

- Power Booster (HLD)** – All digging, lifting and tractive forces are increased
- Slew priority** – Power distribution between boom lift and slew movement to obtain best performance
- Decelerator** – Permits digging speed to be varied during a digging cycle (saves fuel)
- Float position** – For more efficient topsoil stripping and grab work and better operator comfort and fuel economy

Automatic Decelerator and Speed Sensing Control are also included for optimum utilization of the engine. Hose rupture valves on the boom cylinders are standard.

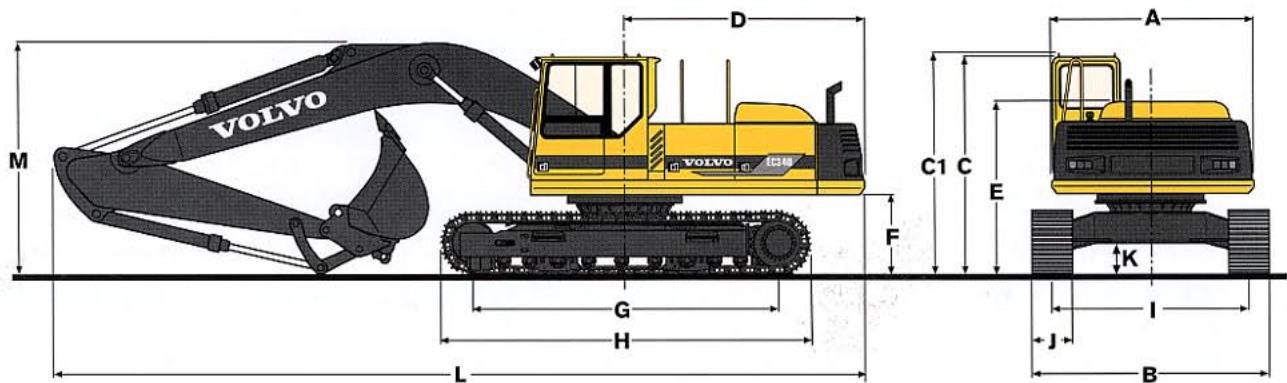
Pump P1 (slew, bucket, optional equipment)  
 Max. pressure ..... 31 MPa  
 Max. flow ..... 203 l/min

Pumps P2 and P3 (boom, dipper arm, bucket, travel motors, optional equipment)  
 Max. pressure ..... 31 MPa  
 Max. pressure with HLD ..... 35 MPa  
 Max. flow ..... 2 x 253 l/min

Servo pump  
 Pressure ..... 6,5 MPa  
 Flow ..... 21 l/min

Fan pump  
 Pressure ..... 21 MPa  
 Flow ..... 29 l/min

## DIMENSIONS



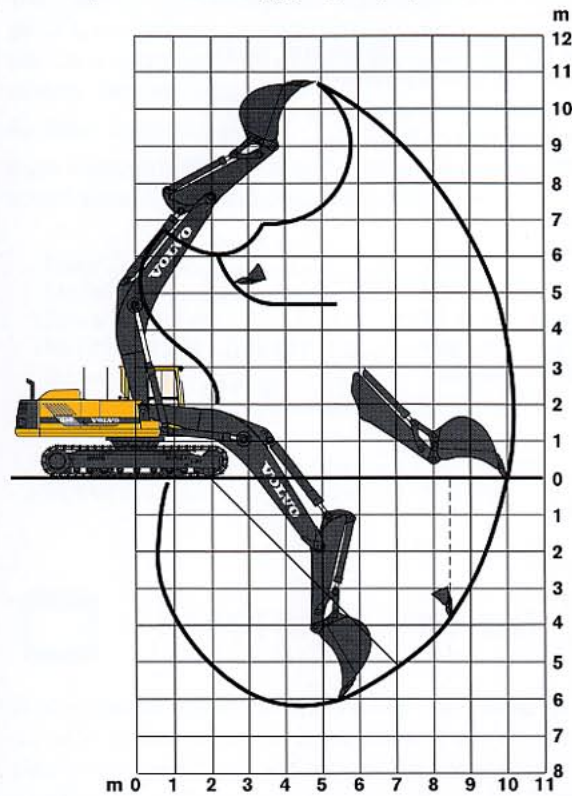
			Boom	Dipper arm	
A:	mm 2 950	L:	mm 10 600	6,0 m	2,2 m – ME digging equipment
B: <sup>1)</sup>	mm 3 000/ 3 100/ 3 200/ 3 300	L:	mm 10 500	6,0 m	2,4 m, 2,9 m and 3,5 m
B: <sup>2)</sup>	mm 3 300/ 3 400/ 3 500/ 3 600	L:	mm 11 300	6,7 m	2,4 m
C:	mm 3 080	L:	mm 11 200	6,7 m	2,9 m, 3,5 m and 4,1 m
C1:	mm 3 130				
D:	mm 3 300	M:	mm 3 330	6,0 m	2,2 m – ME digging equipment
E:	mm 2 430	M:	mm 3 250/ 3 200*	6,0 m	2,4 m
F:	mm 1 150	M:	mm 3 480/ 3 200*	6,0 m	2,9 m
G:	mm 4 200	M:	mm 3 540/ 3 200*	6,0 m	3,5 m
H:	mm 5 130				
I: <sup>1)</sup>	mm 2 400	M:	mm 3 230/ 3 200*	6,7 m	2,4 m
I: <sup>2)</sup>	mm 2 700	M:	mm 3 370/ 3 200*	6,7 m	2,9 m
J:	mm 600/ 700/ 800/ 900	M:	mm 3 410/ 3 200*	6,7 m	3,5 m
K:	mm 480	M:	mm 3 200/ 3 200*	6,7 m	4,1 m

1) Narrow undercarriage 2) Wide undercarriage

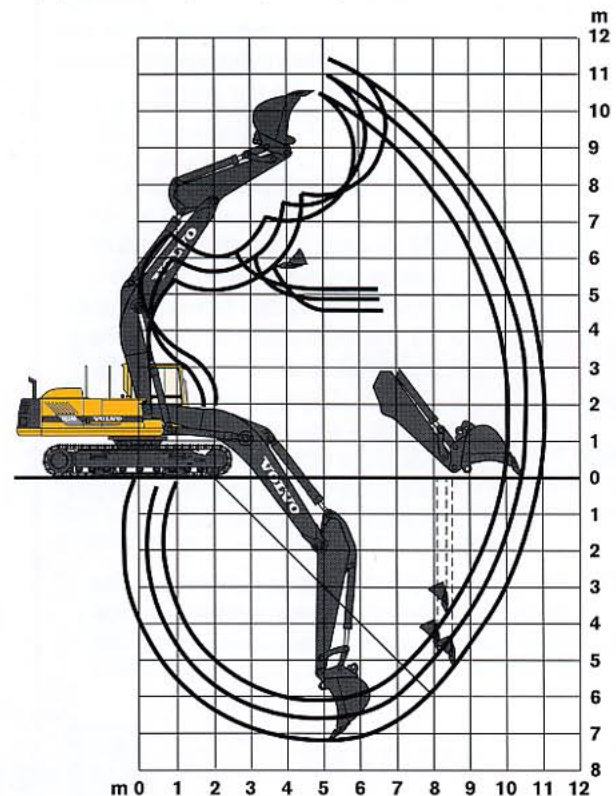
\* Without bucket

## DIGGING RANGES

Monobloc boom 6,0 m and dipper arm 2,2 m – ME digging equipment



Monobloc boom 6,0 m and dipper arm 2,4 / 2,9 / 3,5 m



<b>Monobloc boom</b>	m	6,0	6,0	6,0	6,0
<b>Dipper arm</b>	m	2,2 ME	2,4	2,9	3,5
Max. reach	m	10,2	10,0	10,6	11,1
Max. reach at ground level	m	10,0	9,9	10,4	10,9
Max. digging depth	m	5,8	6,1	6,6	7,2
Max. height ground – tooth tip	m	10,7	10,5	11,1	11,3
Max. dumping height	m	6,9	7,0	7,5	7,7
Max. practical dumping height	m	4,7	5,0	4,8	4,5
Practical digging depth for a material					
with a 45° angle of repose	m	5,2	5,1	5,5	5,8
Max. vertical digging depth	m	3,8	3,7	4,8	5,1
Min. front slew radius	m	3,1	3,2	3,1	3,1

### Digging forces with pin-on GP bucket:

Bucket radius	m	1,77	1,42	1,42	1,42
Breakout force	kN	233	259	259	259
Tearout force	kN	188	191	168	147
Rotation angle, bucket	°	155	175	175	175

### Max. permitted buckets for quickfit / pin-on:

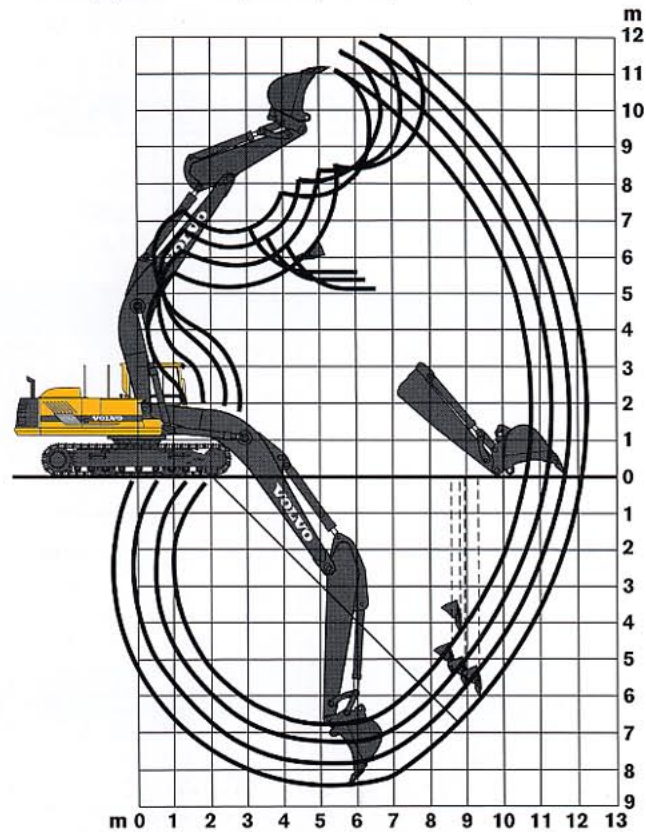
		Narrow undercarriage			
GP bucket 1,5 t/m <sup>3</sup>	l	–	2 300 / 2 450	2 050 / 2 200	1 850 / 1 950
GP bucket 1,8 t/m <sup>3</sup>	l	–	2 050 / 2 150	1 800 / 1 900	1 600 / 1 700
RB bucket 1,8 t/m <sup>3</sup>	l	–	1 900 / 2 000	1 700 / 1 800	1 500 / 1 600
RB bucket 2,0 t/m <sup>3</sup>	l	–	1 750 / 1 850	1 500 / 1 650	1 400 / 1 500

### Max. permitted buckets for quickfit / pin-on:

		Wide undercarriage			
GP bucket 1,5 t/m <sup>3</sup>	l	– / 2 750	2 650 / 2 750	2 350 / 2 500	2 100 / 2 250
GP bucket 1,8 t/m <sup>3</sup>	l	– / 2 400	2 350 / 2 450	2 100 / 2 200	1 850 / 1 950
RB bucket 1,8 t/m <sup>3</sup>	l	– / 2 250	2 200 / 2 300	1 950 / 2 050	1 750 / 1 850
RB bucket 2,0 t/m <sup>3</sup>	l	– / 2 100	2 050 / 2 100	1 800 / 1 900	1 600 / 1 700

## DIGGING RANGES

Monobloc boom 6,7 m  
and dipper arm 2,4 / 2,9 / 3,5 / 4,1 m










<b>Monobloc boom</b>	m	6,7	6,7	6,7	6,7
<b>Dipper arm</b>	m	2,4	2,9	3,5	4,1
Max. reach	m	10,8	11,3	11,8	12,3
Max. reach at ground level	m	10,6	11,2	11,7	12,1
Max. digging depth	m	6,8	7,3	7,9	8,5
Max. height ground – tooth tip	m	11,1	11,7	11,9	12,0
Max. dumping height	m	7,6	8,0	8,3	8,4
Max. practical dumping height	m	5,6	5,3	5,1	4,8
Practical digging depth for a material					
with a 45° angle of repose	m	5,6	6,0	6,3	6,7
Max. vertical digging depth	m	4,3	5,4	5,7	6,0
Min. front slew radius	m	3,7	3,5	3,5	3,5

<b>Digging forces with pin-on GP bucket:</b>					
Bucket radius	m	1,42	1,42	1,42	1,42
Breakout force	kN	259	259	259	259
Tearout force	kN	191	168	147	131
Rotation angle, bucket	°	175	175	175	175

Max. permitted buckets for quickfit / pin-on:		Narrow undercarriage			
GP bucket 1,5 t/m <sup>3</sup>	l	1 950 / 2 050	1 700 / 1 800	1 500 / 1 650	–
GP bucket 1,8 t/m <sup>3</sup>	l	1 700 / 1 800	1 500 / 1 600	1 350 / 1 450	–
RB bucket 1,8 t/m <sup>3</sup>	l	1 600 / 1 650	1 400 / 1 500	1 250 / 1 350	–
RB bucket 2,0 t/m <sup>3</sup>	l	1 450 / 1 550	1 300 / 1 400	1 150 / 1 250	–

Max. permitted buckets for quickfit / pin-on:		Wide undercarriage			
GP bucket 1,5 t/m <sup>3</sup>	l	2 200 / 2 350	2 000 / 2 100	1 750 / 1 900	1 600 / 1 700
GP bucket 1,8 t/m <sup>3</sup>	l	1 950 / 2 050	1 750 / 1 850	1 550 / 1 650	1 400 / 1 500
RB bucket 1,8 t/m <sup>3</sup>	l	1 800 / 1 900	1 650 / 1 750	1 450 / 1 550	1 300 / 1 400
RB bucket 2,0 t/m <sup>3</sup>	l	1 700 / 1 800	1 500 / 1 600	1 350 / 1 450	1 200 / 1 300

## LIFTING CAPACITY (In dipper pin without bucket. Unit: 1 000 kg.)

 Across undercarriage  Along undercarriage	Lifting point related to ground level	Reach from machine centre												1) = Narrow undercarriage 2) = Wide undercarriage			
		4,5 m			6,0 m			7,5 m			9,0 m			Max. reach			
		1)	2)		1)	2)		1)	2)		1)	2)		1)	2)		Max. m
ME digging equipment 6,0 m mono-bloc boom 2,2 m dipper arm Track gauge 600 mm	7,5 m		11,4*	11,4*											8,5*	8,5*	5,7
	6,0 m		11,8*	11,8*	10,0	10,3*									7,8*	7,8*	6,9
	4,5 m		13,4*	13,4*	9,4	10,8*	6,8	8,9*							6,7	7,8*	7,6
	3,0 m		13,1	15,6*	8,8	11,6*	6,5	9,6*							6,0	7,7*	8,0
	1,5 m		12,5	16,5*	8,4	12,1*	6,3	9,7*							5,7	7,8*	8,1
	0,0 m		12,3	15,8*	8,2	12,0*	6,2	9,4*							5,8	8,4*	7,9
	-1,5 m		12,3	14,1*	8,1	11,0*									6,4	8,6*	7,3
	-3,0 m		11,2*	11,2*	8,3	8,6*									7,7	7,7*	6,4
6,0 m mono-bloc boom 2,4 m dipper arm Track gauge 600 mm	7,5 m	10,8*	10,8*	10,8*											7,1*	7,1*	5,8
	6,0 m	11,4*	11,4*	11,4*	8,8	10,0	10,0*								6,5*	6,5*	7,0
	4,5 m	12,6	13,0*	13,0*	8,3	9,4	10,5*	6,0	6,8	8,3*					5,7	6,5	6,6*
	3,0 m	11,5	13,2	15,2*	7,8	8,8	11,4*	5,7	6,5	9,5*					5,1	5,8	6,5*
	1,5 m	10,8	12,5	16,4*	7,3	8,4	12,0*	5,5	6,2	9,6*					5,0	5,6	8,0*
	0,0 m	10,5	12,2	16,0*	7,1	8,1	12,0*	5,3	6,1	9,4*					5,0	5,7	8,8*
	-1,5 m	10,5	12,2	14,4*	7,0	8,1	11,1*								5,4	6,2	8,6*
	-3,0 m	10,6	11,6*	11,6*	7,2	8,2	9,0*								6,5	7,4	8,0*
6,0 m mono-bloc boom 2,9 m dipper arm Track gauge 600 mm	7,5 m				7,5*	7,5*	7,5*								5,2*	5,2*	6,6
	6,0 m	9,7*	9,7*	9,7*	8,9	9,2*	9,2*	5,8*	5,8*	5,8*					5,2*	5,2*	7,6
	4,5 m	12,2*	12,2*	12,2*	8,4	9,5	10,0*	6,0	6,8	8,7*					4,8*	4,8*	8,3
	3,0 m	11,9	13,6	14,6*	7,9	9,0	11,0*	5,7	6,5	9,1*					4,6	5,3	8,6
	1,5 m	11,0	12,7	16,2*	7,4	8,5	11,8*	5,5	6,2	9,5*					4,4	5,0	8,7
	0,0 m	10,6	12,3	16,4*	7,1	8,2	12,1*	5,3	6,0	9,5*					4,5	5,1	8,5
	-1,5 m	10,5	12,2	15,2*	7,0	8,1	11,5*	5,2	6,0	8,8*					4,8	5,5	8,0
	-3,0 m	10,6	12,3	12,8*	7,1	8,1	9,8*								5,6	6,4	7,2
-4,5 m	8,9*	8,9*	8,9*											6,3*	6,3*	5,9	
6,0 m mono-bloc boom 3,5 m dipper arm Track gauge 600 mm	7,5 m				6,6*	6,6*	6,6*								4,1*	4,1*	7,2
	6,0 m				7,6*	7,6*	7,6*	6,1*	6,1*	6,1*					3,7*	3,7*	8,2
	4,5 m	10,1*	10,1*	10,1*	8,5	9,2*	9,2*	6,0	6,8	7,7*					3,8*	3,8*	8,8
	3,0 m	12,2	13,4*	13,4*	8,0	9,1	10,3*	5,7	6,5	8,6*	4,2	4,7*	4,7*		4,1*	4,1*	9,1
	1,5 m	11,1	12,9	15,5*	7,4	8,5	11,3*	5,4	6,2	9,1*	4,1	4,7	5,5*		3,9	4,1*	9,2
	0,0 m	10,5	12,3	16,3*	7,1	8,1	11,9*	5,2	5,9	9,3*	4,0	4,6	4,7*		4,0	4,6	9,0
	-1,5 m	10,3	12,0	15,6*	6,9	7,9	11,6*	5,0	5,8	9,0*					4,3	4,9	8,5
	-3,0 m	10,3	12,1	13,8*	6,8	7,9	10,5*	5,1	5,8	7,8*					4,8	5,5	7,8
-4,5 m	10,6*	10,6*	10,6*	7,0	7,8*	7,8*								6,2	6,6*	6,6	

Note: For lift capacity including quickfit or bucket, simply subtract actual weight of quickfit or bucket from the above values. (Quickfit S3, weight 300 kg.)



\* Load capacity limited by machine's hydraulic lifting capacity.

The above values have been calculated in compliance with ISO standard 10 567.

They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground.

Working pressure with HLD = 35 MPa (350 bar/ 5 080 psi)

## LIFTING CAPACITY (In dipper pin without bucket. Unit: 1 000 kg.)

 Across undercarriage  Along undercarriage	Lifting point related to ground level	Reach from machine centre															1) = Narrow undercarriage 2) = Wide undercarriage			
		4,5 m			6,0 m			7,5 m			9,0 m			Max. reach			Max. m			
		1)	2)		1)	2)		1)	2)		1)	2)		1)	2)					
6,7 m mono-bloc boom 2,4 m dipper arm Track gauge 600 mm	7,5 m				8,9*	8,9*	8,9*										7,0*	7,0*	7,0*	6,8
	6,0 m	10,9*	10,9*	10,9*	8,6	9,2*	9,2*	6,1	6,9	8,3*				5,7	6,4	6,9*	5,7	6,4	6,9*	7,8
	4,5 m	11,9	13,1*	13,1*	8,0	9,1	10,0*	5,8	6,6	8,5*				4,8	5,4	6,3*	4,8	5,4	6,3*	8,5
	3,0 m				7,4	8,4	11,0*	5,5	6,2	8,9*				4,3	4,9	7,0*	4,3	4,9	7,0*	8,8
	1,5 m				6,9	7,9	11,6*	5,2	5,9	9,2*				4,1	4,7	7,0*	4,1	4,7	7,0*	8,9
	0,0 m	10,1	11,8	13,6*	6,7	7,7	11,6*	5,0	5,7	9,2*				4,2	4,8	7,7	4,2	4,8	7,7	8,7
	-1,5 m	10,1	11,8	13,7*	6,6	7,6	11,0*	5,0	5,7	8,6*				4,5	5,1	7,7*	4,5	5,1	7,7*	8,2
	-3,0 m	10,1	11,6*	11,6*	6,7	7,7	9,4*							5,2	5,9	7,3*	5,2	5,9	7,3*	7,4
-4,5 m	8,4*	8,4*	8,4*	6,6*	6,6*	6,6*							6,2*	6,2*	6,2*	6,2*	6,2*	6,2*	6,2	
6,7 m mono-bloc boom 2,9 m dipper arm Track gauge 600 mm	9,0 m				6,3*	6,3*	6,3*							5,8*	5,8*	5,8*	5,8*	5,8*	5,8*	6,1
	7,5 m				8,2*	8,2*	8,2*	5,4*	5,4*	5,4*				5,4*	5,4*	5,4*	5,4*	5,4*	5,4*	7,5
	6,0 m	10,1*	10,1*	10,1*	8,6*	8,6*	8,6*	6,1	6,9	7,8*				5,0	5,4*	5,4*	5,0	5,4*	5,4*	8,4
	4,5 m	12,2*	12,2*	12,2*	8,1	9,2	9,5*	5,8	6,6	8,1*	4,3	4,9	5,4*	4,3	4,9	5,4*	4,3	4,9	5,4*	9,0
	3,0 m	11,1	12,8	14,7*	7,5	8,6	10,6*	5,5	6,2	8,6*	4,1	4,7	7,5*	3,9	4,5	5,7*	3,9	4,5	5,7*	9,3
	1,5 m	10,3	12,0	12,5*	7,0	8,1	11,4*	5,2	5,9	9,0*	4,0	4,6	7,4	3,7	4,3	5,8*	3,7	4,3	5,8*	9,4
	0,0 m	10,0	11,8	14,5*	6,7	7,7	11,7*	5,0	5,7	9,2*	3,9	4,5	7,3	3,8	4,3	6,6*	3,8	4,3	6,6*	9,2
	-1,5 m	10,0	11,7	14,5*	6,6	7,6	11,2*	4,9	5,6	8,8*				4,0	4,6	7,1*	4,0	4,6	7,1*	8,8
-3,0 m	10,1	11,8	12,7*	6,6	7,7	10,0*	4,9	5,7	7,8*				4,5	5,2	6,8*	4,5	5,2	6,8*	8,1	
-4,5 m	9,8*	9,8*	9,8*	6,8	7,7*	7,7*							5,7	6,2*	6,2*	5,7	6,2*	6,2*	6,9	
6,7 m mono-bloc boom 3,5 m dipper arm Track gauge 600 mm	9,0 m				6,3*	6,3*	6,3*							4,4*	4,4*	4,4*	4,4*	4,4*	4,4*	6,8
	7,5 m				7,2*	7,2*	7,2*	5,9*	5,9*	5,9*				4,1*	4,1*	4,1*	4,1*	4,1*	4,1*	8,1
	6,0 m				7,8*	7,8*	7,8*	6,1	6,9	7,1*	3,8*	3,8*	3,8*	3,8*	3,8*	3,8*	3,8*	3,8*	3,8*	9,0
	4,5 m	11,0*	11,0*	11,0*	8,3	8,8*	8,8*	5,8	6,6	7,6*	4,3	4,9	6,2*	3,8	4,2*	4,2*	3,8	4,2*	4,2*	9,5
	3,0 m	11,4	13,2	13,5*	7,6	8,7	10,0*	5,5	6,2	8,2*	4,1	4,7	7,1*	3,5	4,0	4,4*	3,5	4,0	4,4*	9,8
	1,5 m	10,4	12,1	15,4*	7,0	8,1	11,0*	5,1	5,9	8,7*	3,9	4,5	7,3*	3,3	3,8	4,4*	3,3	3,8	4,4*	9,9
	0,0 m	9,9	12,0	15,7*	6,6	7,7	11,4*	4,9	5,6	9,0*	3,7	4,3	7,1	3,3	3,9	5,1*	3,3	3,9	5,1*	9,7
	-1,5 m	9,7	11,4	15,0*	6,4	7,5	11,3*	4,7	5,5	8,8*	3,7	4,2	7,0*	3,5	4,1	5,7*	3,5	4,1	5,7*	9,3
-3,0 m	9,8	11,5	13,5*	6,4	7,4	10,4*	4,7	5,4	8,1*				3,9	4,6	6,6*	3,9	4,6	6,6*	8,6	
-4,5 m	10,0	11,0*	11,0*	6,5	7,6	8,6*	4,9	5,6	6,3*				4,8	5,5	6,1*	4,8	5,5	6,1*	7,6	
6,7 m mono-bloc boom 4,1 m dipper arm Track gauge 600 mm	9,0 m							3,8*	3,8*							2,4*	2,4*	2,4*	8,4	
	7,5 m							4,8*	4,8*				3,5*	3,5*		2,3*	2,3*	2,3*	9,6	
	6,0 m							5,8*	5,8*				4,6*	4,6*		2,3*	2,3*	2,3*	10,4	
	4,5 m		8,9*	8,9*		7,8*	7,8*	6,8*	6,8*				5,0	5,6*		2,4*	2,4*	2,4*	10,9	
	3,0 m		12,5*	12,5*		8,9	9,0*	6,3	7,4*				4,7	6,4*		2,4*	2,4*	2,4*	11,2	
	1,5 m		12,1	15,0*		8,1	10,4*	5,8	8,0*				4,4	6,7*		2,4*	2,4*	2,4*	11,3	
	0,0 m		11,4	15,4*		7,5	11,1*	5,5	8,5*				4,2	7,0*		2,8*	2,8*	2,8*	11,1	
	-1,5 m		11,3	14,9*		7,3	11,1*	5,3	8,6*				4,0	6,9		3,1	3,3*	3,3*	10,7	
-3,0 m		11,3	13,8*		7,2	10,4*	5,2	8,2*				4,0	6,5*		3,4	3,5*	3,5*	10,1		
-4,5 m		11,5	11,8*		7,3	9,0*	5,2	7,1*				4,1	5,3*		4,0	4,6*	4,6*	9,1		
-6,0 m		8,5*	8,5*		6,5*	6,5*	4,8*	4,8*							4,7*	4,7*	4,7*	7,6		

Note: For lift capacity including quickfit or bucket, simply subtract actual weight of quickfit or bucket from the above values. (Quickfit S3, weight 300 kg.)

\* Load capacity limited by machine's hydraulic lifting capacity.

The above values have been calculated in compliance with ISO standard 10 567.

They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground.

Working pressure with HLD = 35 MPa (350 bar/ 5 080 psi)

## STANDARD EQUIPMENT

### Engine and electrical system

Contronic E – computerized monitoring and alarm system  
 Battery disconnecter and main fuel cock  
 Decelerator – electronic idling speed  
 Auto idling  
 Electronically controlled pump regulation (SSC)  
 3-stage air filter with indicator  
 Hour meter  
 Tachometer  
 Fuel level gauge  
 Temperature gauge for coolant and hydraulic oil  
 Electric preheating coil  
 24 V electrical system  
 Well-protected electrical system based on printed circuit board  
 Water separating fuel filter

### Undercarriage

Slew ring in oil bath  
 Hydraulic track tensioner  
 Derailing shields, 3 per side  
 Eyes for towing and tying, 4 pcs

### Superstructure

Counterweight 6 300 kg  
 Access way with ladder

### Safety and comfort

Safety bar to prevent accidental actuation via levers and pedals  
 Hose rupture valves on the boom cylinders  
 Overload alarm  
 Working lights(halogen):  
 4 front  
 1 rear  
 Interior lighting in cab and engine compartment  
 Rear-view mirrors:  
 3 exterior  
 Cab heating  
 Filtered air intake  
 Ergonomic, electrically heated operator's seat with seat belt  
 Skylight of special plastic  
 Sliding side window in cab door  
 Emergency exit through rear window  
 Tinted window glass (clear front)  
 Interior sun visor  
 Upper and lower windscreen wipers with intermittent function

Windscreen washer  
 Electric horn  
 Silencer with spark arrester  
 Oil draining cock on the engine  
 Selectable slew holding brake automatics

### Hydraulic system

Float position on boom  
 3 variable axial piston pumps  
 Mode Selector  
 Power Boost (HLD)  
 Control levers with four switches each  
 Hydraulic cylinders with internal end dampening  
 Slew priority  
 Two speed travel motors with brake valves and brakes of multi-disc type  
 Return filter of full flow type 13 µm (abs), 2 000 h exchange interval  
 Pressure relief system (Servo accumulator)  
 Hydraulically driven, thermostatically controlled cooling fan for the hydraulic oil cooler  
 Overspeed protection

### Digging equipment

Spherical steel link bearings in all large pivot points  
 Safety lifting hook – 14 tons  
 Friction-welded piston rod eyes  
 Attachment points for extra hydraulics

## ALTERNATIVE EQUIPMENT

### Undercarriage

Narrow  
 Wide  
 Top rollers  
 Skid rails

### Track shoes

600/700/800/900 mm track shoes with triple grousers and mud holes

### Digging equipment

**Booms**  
 6,0 m monobloc  
 6,7 m monobloc

### Dipper arms

2,2 m (Mass Excavation)  
 2,4 m  
 2,9 m  
 3,5 m  
 4,1 m (only available with wide undercarriage)

### Buckets

**Pin-on buckets and buckets for quickfit S3**

GP-bucket	Rock bucket (RB)
2 300 l	2 000 l
2 100 l	1 800 l
1 900 l	1 600 l
1 700 l	1 400 l

### Pin-on bucket

GP-bucket (Mass excavation)  
 2 500 l

### Hydraulic quickfit S3

(weight: 300 kg)

## OPTIONAL EQUIPMENT (Standard on certain markets)

### Engine and electrical system

Diesel-powered cab and engine heater with digital timer  
 Electric engine heater, 220 V  
 Protective net in front of the cooler  
 Alternator 80 A  
 Oil bath filter for improved filtering of the intake air  
 Coolant filter

### Undercarriage

Lockable storage box

### Safety and comfort

Protective net for windscreen  
 Protective bars for skylight (FOPS 3 449-approved)  
 Protective cab roof (FOGS ISO 10 262-approved)  
 Fire extinguisher  
 Rotating warning beacon  
 Extra headlights on boom  
 Hydraulically powered fuelling pump, 60 l/min with overfilling protection  
 Extra circulation pump for heating system – interval heating  
 Extra hose rupture valve – dipper arm cylinder  
 Exterior sun visor

Rear window jalousie  
 Air conditioning  
 Microfilter for cab  
 Food heater  
 Radio with tape player  
 Tool kit  
 Service walk  
 Travel alarm  
 Vandal protection

### Hydraulic system

Biodegradable hydraulic oil  
 Hydraulic equipment for:  
 A. Slope bucket/rotator  
 B. Hammer/shears/grab/clam shell  
 C. Quickfit  
 D. Hand tool  
 E. 4th working pump

Under our policy of continuous product 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

Volvo Construction  
 Equipment Group

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