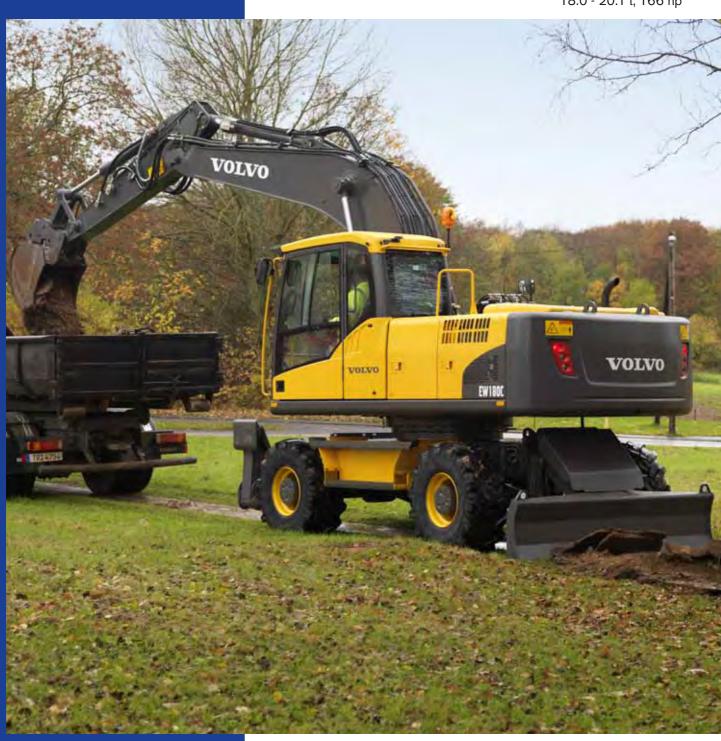
# EVOLVO WHEELED EXCAVATOR

18.0 - 20.1 t, 166 hp



MORE CARE. BUILT IN.



# **VOLVO – A PARTNER TO TRUST.**

Trust means knowing your equipment will perform no matter the job, the hour or the conditions. Volvo EW180C wheeled excavators will earn your trust. With the multi-task credentials of a tool carrier and the pedigree of a thoroughbred digging machine, the EW180C does more than work. It commands.

Multi-function. Highly mobile. Fuel efficient. Comfortable. Think of the Volvo EW180C as your one-machine fleet. It's time to roll.



Since 1927, Volvo has earned trust for providing solutions with true value. Built on core values of quality, safety and environmental care, Volvo equipment is a leader in construction and transportation. Its extensive lineup of construction machines is complemented by Volvo buses, trucks, aero engines and marine power systems. As the world's largest producer of 9- to 18-liter diesel engines, Volvo delivers class-leading fuel efficiency. That heritage is born anew in the C-Series family of excavators. One shift in the cab of a Volvo excavator and you'll understand why so many count on Volvo as their trusted partner.

# A task force from one machine

Other machines may try to claim the crown, but Volvo C-Series wheeled excavators are arguably the most capable construction machines at work anywhere. So what is an excavator doing making such claims? Watch and see. The EW180C is one machine, but it performs the work of a task force. Digging trenches. Hammering impacted rock.

Setting up trench boxes. Grading. Craning pipes. Boring holes for utility poles. Sawing concrete bridge decks. Pulling storm debris from under bridges.

All that in a well-balanced package that moves between job sites at up to 35 km/h. And the EW180C won't tear up road surfaces or parking lots like crawler machines.

# Cab puts the operator in command

The roomier cab has excellent visibility, high-volume climate control, a new seethrough roof hatch and repositionable steering column. The responsive controls allow the operator to infinitely adjust hydraulic flow and pressure for attachments without leaving the seat. Fluid levels can be monitored right from the cab.

With such mobility, ease of use, comfort and adaptability, the EW180C truly has the power of more. More tools. More tasks. More control. More work done — on less fuel. At the end of the day it adds up to the one thing all contractors want — more profit.



· Volvo is a sure sign of innovation and quality.



· Extra-duty components deliver reliable, long life.



- Efficient, intelligent Volvo V-ACT engine.
- Rugged, mobile tool carrier efficiently handles the work of several machines.
- Adjust attachment hydraulic flow and pressure right from the cab.
- Cab comfort, clear visibility enhance productivity.
- V-ACT engine has high torque at low revs and superior fuel efficiency.



- High torque and smooth ride redefine mobility.
- Stability and power for lifting and craning jobs.



# A CAB THIS GOOD COULD ONLY COME FROM VOLVO.

Why is the new Volvo C-Series Care Cab so roomy, comfortable and secure? Simple. Volvo knows the excavator operator is that important.

We made the EW180C cab roomier, expanded the cab glass, added a transparent, openable roof hatch option and made everything from the seat to the steering column easy to customize for just the right fit. We make it easy to do more — in comfort.



One shift at the controls of the EW180C and an operator will never want to run anything but a Volvo. Operator input is a big part of Volvo cab design, so it's no surprise the EW180C Care Cab is loaded with productivity-enhancing features. It's not only good for the operator, it's a competitive edge for the owner. Productivity and profit start in the cab.

It's easier than ever to be productive — right from the operator's seat. Daily checks of engine oil, coolant, hydraulic oil and filters can be done via the easy-to-read electronic control monitor. No more climbing on the excavator for daily checks.

The optional Volvo CareTrack system works with the machine's diagnostics to track geographic location, usage, fuel consumption, service reminders and more. Using GPS technology, CareTrack makes the information available remotely via computer. CareTrack also offers theft protection by allowing you to limit geographic areas or hours of the day the machine can be operated.

Switching attachments is fast and convenient. The operator can adjust hydraulic flow and pressure settings

from the cab — a major time saver when doing tool-carrier work. Volvo hydraulics provide smooth, comfortable control with low effort from the joysticks. And the ride is smooth, whether roading at full speed or operating in creep mode.

# Visibly superior

Volvo is already known for industry leading cab visibility. Now we've made it even better with more cab glass and a transparent roof hatch that opens via a gas strut. Visibility has been dramatically improved by moving the windshield-wiper motor to the left and the wiper cleans a wider area.. The steering column pivots back and forth, so it won't obstruct view to the front. With the two-piece boom retracted, visibility out the right side is clear and unobstructed for travel.

An optional rear-view camera is integrated into the in-cab monitor for extra safety. Digging, lifting or craning, the operator has the cleanest lines of sight, for added confidence and better productivity.

We've relocated the cooling system fan, so the pressurized cab is even quieter. A new viscous-mount suspension cushions the platform from vibration, so long shifts won't mean big fatigue. An improved seat enhances comfort — and significantly reduces whole-body vibration.



· Extra leg and foot room boosts operator comfort.



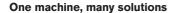
- Overhead visibility through transparent roof.
- Deluxe air-suspension seat with adjustable height, tilt, recline and forward-back settings to easily suit any size operator.
- Joystick consoles adjust up, down, forward and back.
- Forward-reverse switch on right joystick provides superior control, lessens leg fatigue compared with F/R pedal.
- Wider cab with more leg room and foot space.
- Electronic control console allows daily fluid and filter checks right from the cab.
- Generous cab glass enhances industryleading visibility.
- Transparent, openable roof hatch offers clean sight lines for overhead operations.
- Retractable steering column pivots toward operator for clean field of view.
- Removable lower front window stows easily in cab door pocket.
- Optional rear camera provides added safety and increased operator confidence.
- New viscous-mount suspension dampens shock and vibration.
- 14-vent climate-control keeps cab air comfortable in any weather.



# FLEET PRODUCTION — FROM ONE MACHINE.

Every contractor looks for a competitive edge, which is why Volvo built so many into its line of wheeled excavators. The EW180C is a superior tool carrier that can perform the work of several machines — at lower cost and higher profit.

With so many options, from buckets and hammers to grapples and clamps, the EW180C is more than a machine. It's a force.



The Volvo EW180C is a true tool commander, engineered with the power and stability to handle the work of several machines. With a multitude of available attachments and the ability to customize hydraulic flow and pressure right from the cab, the EW180C has the power and quality of a whole fleet — built in.

The stout, solid undercarriage anchors the machine for digging, lifting and precision operations. With robust, widespread outriggers and parallel blade, the EW180C can lift as much as a 18-ton crawler excavator. And it won't tear up roadway pavement or mar other sensitive surfaces.

Versatility starts with the EW180C's boom. The available two-piece boom delivers incredible agility, allowing the excavator to work in tight spaces or perform parallel digging. Geometry of the two-piece boom makes the EW180C perfectly suited for a huge range of tasks, from craning concrete pipes to placing utility poles. The standard monoboom delivers solid performance for digging and lifting applications.

# Work tools for any task

Tool-carrier performance of the EW180C is limited only by the needs of the customer. Add a quick fit and tilting, rotating attachment to take machine performance to a smart level. Long reach and fine creep control make this an excellent ditching machine.

Smooth, load-sensing hydraulics deliver the control for asphalt cutting or grading around obstructions. Stability and power help the machine excel at lifting and placing pipes, moving construction materials, or setting concrete traffic barriers. Superior hydraulics can power hammers, grapples, brush cutters and many other attachments.

You can easily arm the EW180C with ditching or trenching buckets, rippers, compactors, augers, mowers, pulverizers — and more.

All of this performance is made more effective by the EW180C's smooth travel at speeds up to 35 km/h. So whether the work is across the job site or across town, the EW180C takes the power where you need it most.



Lifting ability rivals that of a 21-ton crawler.



- · Optional two-piece boom adds versatility.
- With a range of attachments, do more with one machine.
- Operate off road or on pavement without damaging sensitive surfaces.
- Quick fit makes swapping attachments quick and easy.
- Stabilizer blade and outriggers enhance stability for digging or lifting.
- Comfortable ride whether at full speed or in creep mode.



# **VOLVO POWER IS THE HEART OF PERFORMANCE.**

To truly understand the advantage of operating a machine with a Volvo power system, you have to experience it. One shift at the controls of the EW180C and you'll know it. It shows in power out of the trench. It shows in the fine control placing pipes or pallets of material. It shows in high torque at low RPMs. It shows in world-class fuel economy. Most importantly, it shows in productivity — and profit.



Tested, and proven, on job sites all over the world.

# Superior power — with purpose

As the world's leading manufacturer of mid-size diesel engines, Volvo knows power. When it comes to the displacement, torque and hydraulic flow to drive the EW180C, Volvo delivers real multi-function performance.

What gives Volvo power a competitive edge on the job site? Superior components are perfectly integrated with Volvo technology to get the most from every stroke, cycle and shift.

Electronic engine controls optimize hydraulic flow based on engine speed and the demands of the job. Volvo delivers total power control, so you're assured of maximum output at any speed.

The advanced Volvo V-ACT engine meets Tier 3/Stage IIIA emissions requirements, so it's easy on the environment. You'll squeeze more from every drop of fuel with V-ACT, which uses new fuel-injection and air-management systems to produce clean combustion and low emissions.

# Powerful load-sensing hydraulics

The quieter main pump delivers precisely the correct ammount of oil to hydraulic, travel and swing functions for smooth and responsive performance — especially on combined tool-carrier operations. A higher torque swing motor means faster cycle times when working on slopes or placing loads.

Increased commonality ensures that the EW180C has more components and parts found in other Volvo equipment. That means better parts availability, lower operating costs and better uptime.

Volvo takes the power even further with VCADS Pro and MATRIS — computerized tools to analyze and manage fuel usage, machine function and utilization. Volvo CareTrack brings the power of satellites to track and manage one machine — or an entire fleet.



Engines are built for multi-task performance.

# High-torque V-ACT engine

- · Precision, high-pressure fuel injection system.
- Larger capacity turbocharger.
- Innovative exhaust recirculation.
- · High torque at low RPMs.
- Industry-leading fuel economy.

# Electronic engine control

- Real-time sensors feed data to the enginemanagement system.
- System optimizes combustion based on sensor feedback.
- Maximum available power directed to hydraulics.

# Hydraulics with harmony

- Maximum available hydraulic power matched to engine speed.
- Volvo hydraulics ensure the flow is directed to where it's needed.

# Telematics, machine management

- Volvo CareTrack telematics system harnesses satellites for remote monitoring.
- Track location, operation data, error codes, alarms and more.
- Diagnostics, machine history available from MATRIS and VCADS Pro systems.



- Easy mode control.
- Hydraulics optimize flow based on job demands.



# A CLOSE-UP VIEW OF ROLLING COMMAND: INNOVATION NEVER LOOKED SO GOOD.

# **MORE SAFETY**

- Safety is a core value at Volvo and it shows in our machines.
- New design Volvo Care Cab with operator protective structure.
- Optional rear camera provides the operator with more confidence.
- · Superstructure above the engine is flat for excellent rear visibility.
- · Punched-plate anti-slip steps and walkways for sure grip.
- Longer cabin footstep resists damage and is easily replaced.
- Low noise levels in the cab and outside the machine.
- · In-cab switch shuts down engine in an emergency.
- Clear, openable roof hatch for clear views of overhead obstructions.
- Indicator on quick fit shows if attachments are locked in place.
- Fuel-efficient, low-emissions engine is easy on the environment.
- · Lead-free exterior paint.
- · Volvo excavators are 95% recyclable.

# **MORE SOLUTIONS**

- · Auxiliary hydraulics power a range of attachments:
  - Grapples Slope bucket Tilting & rotating attachment Brush cutters Compactors Augers
  - Augers
  - Pile drivers Pulverizers - Hammers
- One-touch customization of attachment hydraulic pressure and flow, activated from joystick button in the cab.
- Full hammer/shear control from the cab, including flow control, pressure adjustment and ability to store and recall up to 18 attachment presets from keypad in the cab.
- · Volvo quick fit.
- · Available tilting & rotating attachment provides 360-degree attachment rotation, extreme agility.
- · Available two-piece boom enhances work on cramped sites, aids visibility when roading.





Long-life hydraulic oil with 4,000-hour change interval.
Convenient centralized remote greasing points.

· Cooling system is easier to clean.

Electronic control unit monitors and troubleshoots all functions.
Easy-to-change cab air filter is located outside the cab.

• Satellite-based CareTrack system monitors and troubleshoots

machine operation, location, error codes and more.

# CUSTOMIZABLE MACHINE OPTIONS GIVE YOU THE POWER TO DO MORE.

Volvo C-Series wheeled excavators have productivity and profit built in, but the story doesn't stop there. Volvo offers a wealth of machine options — from hydraulic kits, work lights, and operator seats to a rear-view camera and cold-weather starting system. Volvo delivers more protection, more comfort, more convenience, more strength — and more options.



Enables you to get the most from your 1 or 2-way hydraulic attachments. The operator can store up to 18 pre-sets. When working with a new attachment, flow and pressure control can be adjusted from the cab via the monitor to ensure quick changeover and minimize downtime. To prevent possible misuse of the system, a password selection function can be provided, whereby an approved operator inputs a 4 digit password to gain access.

# Wrist-control joysticks

Volvo's low-effort, wrist-control joysticks deliver smooth and even performance that lessens operator fatigue and increases productivity. Wrist control joysticks with proportional-control switches are also available.

# Response mode

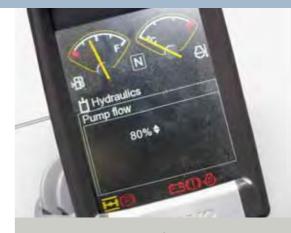
If equipped with proportional joysticks, when using a hydraulic attachment the operator can use the Response mode to provide either greater precision or productivity according to requirements.

### **Boom Float**

Boom Float lowers the boom by gravity. Because hydraulic force is not applied to the boom cylinders, more flow is available for the arm, therefore leveling operations are easier and accomplished faster. Lower fuel consumption can also be evident.

# Tilting, rotating attachments solution

A tilting, rotating attachment solution provides incredible versatility, allowing you to rotate 360 degrees and tilt bucket or attachment 40 degrees.



Attachment Management System.



· Hydraulic flow and pressure control.



Quality hydraulic connectors.



Response mode.



- Wrist-control joysticks.
- Boom Float.



# **SPECIFICATIONS**

# **Engine**

The next-generation Volvo diesel engine uses Volvo Advanced Combustion Technology (V-ACT) to deliver lower emissions and maintain superior performance and fuel efficiency.

The EU Stage IIIA compliant engine uses precise, high-pressure fuel injectors, turbo charger and air to air intercooler, and electronic engine controls to optimize machine performance.

Engine	VOLVO D6E ECE3
Power out at	31,6 r/s (1 900 rpm)
Gross (SAE J1995)	122 kW (166 metric hp)
Net (ISO 9249, DIN 6271)	113 kW (154 metric hp)
Max. torque at 1 400 rpr	<b>n</b> 730 Nm
No. of cylinders	6
Displacement	5,7 I
Bore	98 mm
Stroke	126 mm

# **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.

Voltage	24 V
Battery	2 x 12 V
Battery capacity	2 x 140 Ah
Alternator	28 V / 80 A
Alternator rating	2 240 W

# Cab

New-design Volvo Care Cab with operator protective structure, large and roomy interior, more leg room and foot space. One way travel pedal with rocker switch control (F-N-R) on the right joystick. One-touch release for digging brake pedal. Audio system with remote control. 3 cup holders, 3 outlets, independently adjustable joystick consoles. Excellent all-round visibility provided by maximized cab class, transparent roof hatch, 2-piece sliding door window and long-stroke, easy to adjust and narrow steering column. The liftable front windshield can easily be stored in the inside roof space and clipped in postion. The removable lower front glass can be stored in the side door pocket. Interior lighting consists of one reading light and one light with timer.

The pressurized and filtered cab air is supplied by a 14-vent climate-control providing fast defrosting and high cooling and heating performance. Viscous/spring mounted suspension cushions protect the operator from vibrations. Deluxe air-suspension seat with adjustable seat suspension, height, tilt, recline and forward-backward settings.

Adjustable, easy to read 6.4" LCD color monitor provides real time information of machine functions and important diagnostic information and is switchable to rear view camera monitor (option).

Sound Level:

In cab, acc. to ISO 6396	70 LpA dB(A)
External, acc. to ISO 6395	102 LwA dB(A)
(Directive 2000/14/EC)	

# Undercarriage

**Drive train:** One big variable axial-piston motor on the two-step Power Shift gearbox gives power to front and rear axles, both with hub reductions. **Framework:** All-welded robust torsion box frame **Wheels:** Alternative single and twin wheels available.

**Front axle:** Robust excavator axle with automatic or operator controlled front axle oscillation lock. Oscillating  $\pm 9^{\circ}$  (with mudguards  $\pm 7^{\circ}$ ).

Twin wheels	10,00-20
Max. tractive force (net)	99,5 kN
Travel speed:	
on road	20,0/30,0/35,0 km/h
off road	5,0/7,4/8,7 km/h
creep	3,7 km/h
Min. turning radius	7,6 m

# **Brakes**

**Service brakes:** servo-hydraulically manoeuvred self-adjusting wet multidiscs with two separate brake circuits.

Parking brake: negative wet disc in gear housing, spring applied and pressure released.

**Digging brake:** service brake with mechanical lock system.

**Security system:** The 2-circuit travel brakes are supplied with two accumulators in the event of failure in the service brake system.

# Total machine weights

Machine with 5,2 m monoblock boom, 2,45 m dipper arm, quickfit S1, 630 kg/830 l bucket.

Front and rear outriggers	19 480 kg /20 080* kg
Dozer blade rear excl. outriggers	17 970 kg /18 570* kg
Dozer blade front and outriggers rear	19 200 kg /19 800* kg

<sup>\*</sup>Machine with 5,3 m 2-piece boom.

### Service refill capacities

Fuel tank	295 I
Hydraulic system, total	300 I
Hydraulic tank	165 I
Engine oil	25 I
Engine coolant	27 I
Transmission	2,5
Axel differential:	
Front axle	9,5 I
Rear axle	12,5 I
Final drive, wet disc type	4 x 2,5 l

# Hydraulic system

Closed-centre load sensing hydraulic system with pressure compensated valves. Load independence of movements. Flow sharing feature, combined with a high flow electronically controlled pump (power regulation). The system gives superior manoeuvrability and fast movements, for optimal working result and economy.

The following working modes are included in the system:

**Parking mode (P):** Parking position for optimal safety.

**Travel mode (T):** Engine speed is controlled by travel pedal stroke for low fuel consumption and noise.

**Working mode (W):** Full working flow with adjustable engine rpm for normal working and best speed utilisation.

**Customer mode (C):** Operator can set proper oil flow in accordance with job conditions.

**Power Boost:** All digging and lifting forces are increased.

399 I/min

Hydraulic pumps:

# Max. flows:

(type low noise axial piston pump)	000 17111111
Brake + steering pump (type low noise gear pump)	36,1 I/min
Servo pump (type low noise gear pump)	14,0 I/min
Hydraulic oil cooling fan + pilot pun (type gear pump)	<b>10,</b> 46,0 I/min
Max. pressure:	
Implements	32,5/36 MPa
Travel system	36 MPa
Pilot system	3,5 MPa

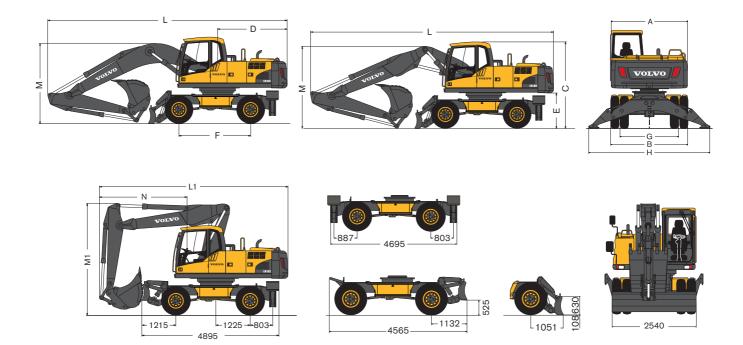
# Slew system

The superstructure is slewed by the means of an axial piston motor with a planetary reduction gear without oil service.

Automatic slew holding brake and anti-rebound valve are standard.

Max. slew speed	9,0 rpm
Max. slew torque	62,3 kNm

# **Dimensions**

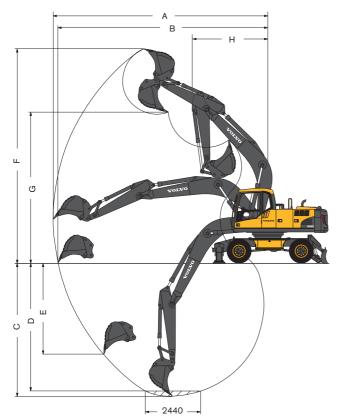


Description	Unit	5,2 m	5,3 m
		Monoblock boom	2-piece boom
A. Overall width of superstructure	mm	2 490	2 490
B. Overall width	mm	2 540	2 540
C. Overall height of cab	mm	3 170	3 170
D. Tail slew radius	mm	2 550	2 550
E. Counterweight clearance	mm	1 290	1 290
F. Wheel base	mm	2 650	2 650
G. Tread	mm	1 940	1 940
H. Outrigger width (front or rear)	mm	3 955	3 955
I. Min. ground clearance	mm	340	340

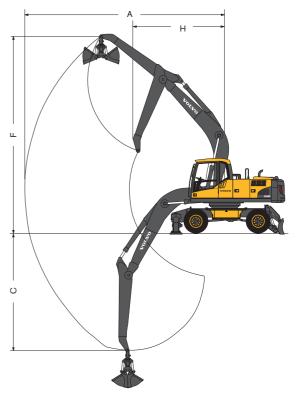
Description	Unit	5,2 m Monoblock boom				5,3 m 2-piece boom			
		2,45 m	2,6 m	3,0 m	3,2 m*	2,45 m	2,6 m	3,0 m	3,2 m*
L. Overall length	mm	8 720	8 775	8 790	8 730*	8 880	8 880	8 915	8 560*
M. Overall height of boom	mm	2 920	3 125	3 520	3 520*	2 920	3 125	3 520	3 585*
L1. Overall length	mm					6 600	6 620	6 600**	6 525*
M1.Overall height of boom	mm					3 975	4 000	4 000**	3 955*
N. Front overhang	mm					3 090	3 120	3 100**	3 020*

<sup>\*</sup> grab arm, without clam shell bucket \*\* without bucket

# Working ranges & digging forces







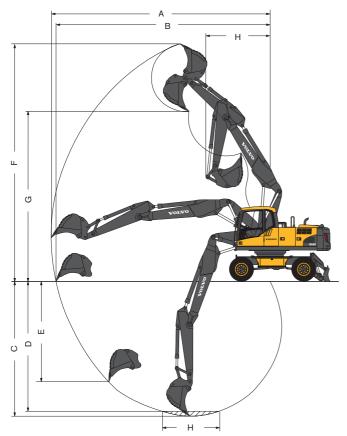
Monoblock boom 5,2 m and grab arm 3,2 m

Description		Unit		5,2 m Mono	block boom	
			2,45 m arm	2,6 m arm	3,0 m arm	3,2 m Grab arm
A. Max. digging reach		mm	9 150	9 280	9 650	8 490
B. Max. digging reach on ground		mm	8 950	9 080	9 460	
C. Max. digging depth		mm	5 670	5 820	6 220	4 960
D. Max. digging depth (2 440 mm level)		mm	5 450	5 610	6 030	
E. Max. vertical wall digging depth		mm	3 890	4 010	4 360	
F. Max. cutting height		mm	9 110	9 150	9 350	8 390
G. Max. dumping height		mm	6 410	6 460	6 660	
H. Min. front slew radius		mm	3 220	3 200	3 190	3 890
Digging forces with direct fit bucket						
Bucket radius		mm	1 371	1 371	1 371	
Breakout force - bucket	(SAE/ISO)	kN	115,8/131,0	115,8/131,0	115,8/131,0	
Tearout force	(SAE/ISO)	kN	98,7/102,1	95,0/98,1	86,3/88,7	
Rotation angle bucket		0	182°	182°	182°	
Max. permitted sizes for direct fit buckets						
GP-Bucket (1,5 t/m³)		1	1 025	1 000	900	
GP-Bucket (1,8 t/m³)		I	900	875	800	
Max. recommended sizes for quick fit buck	ets					
S1 QF GP-Bucket (1,5 t/m³)		I	975	900	825	
S1 QF GP-Bucket (1,8 t/m³)		T	825	775	725	
UQF GP-Bucket (1,5 t/m³)		I	900	875	800	
UQF GP-Bucket (1,8 t/m³)		I	800	775	700	

Note:

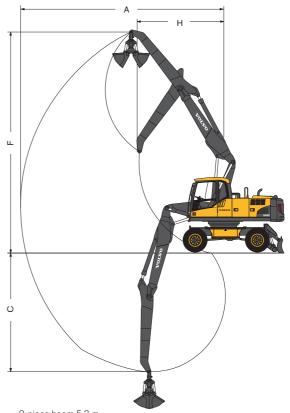
Bucket size based on SAE-J296, heaped material with a 1:1 angle of repose.
 "Max permitted sizes" are for reference only and are not necessarily available from the factory.

# Working ranges & digging forces





Note:



2-piece boom 5,3 m and grab arm 3,2 m

Description		Unit		5,3 m 2-pi	ece boom	
			2,45 m arm	2,6 m arm	3,0 m arm	3,2 m Grab arm
A. Max. digging reach		mm	9 330	9 460	9 835	8 670
B. Max. digging reach on ground		mm	9 130	9 260	9 650	
C. Max. digging depth		mm	5 855	6 000	6 400	5 170
D. Max. digging depth (2 440 mm leve	el)	mm	5 760	5 905	6 310	
E. Max. vertical wall digging depth		mm	4 280	4 420	4 760	
F. Max. cutting height		mm	10 100	10 170	10 445	9 370
G. Max. dumping height		mm	7 225	7 300	7 580	
H. Min. front slew radius		mm	2 750	2 810	2 830	3 700
Digging forces with direct fit buck	æt					
Bucket radius		mm	1 371	1420	1420	
Breakout force - bucket	(SAE/ISO)	kN	115,8/131,0	115,8/131,0	115,8/131,0	
Tearout force	(SAE/ISO)	kN	98,7/102,1	95,0/98,1	86,3/88,7	
Rotation angle bucket		0	182°	182°	182°	
Max. permitted sizes for direct fit	buckets					
GP-Bucket (1,5 t/m³)		1	1 025	1 000	900	
GP-Bucket (1,8 t/m³)		T	900	875	800	
Max. recommended sizes for quic	k fit buckets					
S1 QF GP-Bucket (1,5 t/m³)		I	925	900	825	
S1 QF GP-Bucket (1,8 t/m³)		T	825	775	725	
UQF GP-Bucket (1,5 t/m³)		I	900	875	800	
UQF GP-Bucket (1,8 t/m³)		1	800	775	700	

Bucket size based on SAE-J296, heaped material with a 1:1 angle of repose.
 "Max permitted sizes" are for reference only and are not necessarily available from the factory.

At the arm end, without bucket and quick fit. Unit: 1000 kg. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values.

	Across	Arm end	d						Reacl	h from	n mac	hine o	entre	e (u = :	suppo	ort/d	= sup	port d	lown)												
-	under- carriage	pivot)		1,5 m				3,0	) m			4,5	m			6,0	m			7,5	m			Ма	ıx. rea	ch					
Ф	Along under- carriage	to ground level	u	d	u	<b>]</b>	u	d	u	<b>j</b>	u	d	u	<b>]</b>	u u	d	u	<b></b>	u	<b>D</b>	u	j d	u	<b>D</b>	<u>[</u>		Max.				
ð		9,0 m 7,5 m																					4,2	1 1*	4,4*	1 1+	5.1				
		6,0 m													3,2	5,4	4,9	5,9*					2,9	4,4* 4,0*	4,4	4,4* 4,0*	5,1 6,4				
5,2 m		4,5 m									4,9	7,2*	7,2*	7,2*	3,2	5,3	4,8	6,3*					2,3	3,9*	3,5	3,9*	7,2				
boom		3,0 m									4,5	7,9	7,1	9,0*	3,0	5,1	4,6	7,0*	2,1	3,6	3,3	5,0*	2,1	3,5	3,2	4,0*	7,6				
2,45 ı		1,5 m					7.0	7.04	7.04	7.04	4,1	7,5	6,7	10,6*	2,8	4,9	4,4	7,8*	2,0	3,5	3,2	6,3*	2,0	3,4	3,1	4,3*	7,7				
dippe Front		0,0 m -1,5 m					7,0 7,1	7,0* 12,8*	7,0* 12,8*	7,0* 12,8*	3,9	7,3 7,2	6,5	11,2* 10,8*	2,7	4,8	4,3	8,1* 7,9*					2,0	3,5	3,1	5,0* 6,2*	7,5 6,9				
blade		-3,0 m					7,1	12,8*	12,8*		4,0	7,3	6,5	9,2*	2,1	7,1	7,2	1,5					2,8	4,9	4,4	6,6*	5,9				
Rear	outriggers	-4,5 m																													
I.		9,0 m																													
Ď		7,5 m													0.0	- 1	4.0	F 04					4,0	4,1*	4,1*	4,1*	5,3				
5,2 m		6,0 m 4,5 m									4,9	7,0*	7,0*	7,0*	3,3	5,4 5,3	4,9 4,8	5,8* 6,1*					2,8	3,7* 3,6*	3,7*	3,7* 3,6*	6,6 7,3				
mono boom		3,0 m									4,5	8,0	7,2	8.8*	3,0	5,1	4,6	6,9*	2,1	3,6	3,3	5,5*	2,0	3,4	3,1	3,7*	7,7				
2,6 m		1,5 m									4,1	7,5	6,7	10,5*	2,8	4,9	4,4	7,7*	2,0	3,5	3,2	6,3*	1,9	3,3	3,0	4,1*	7,8				
dippe		0,0 m					7,0	7,4*	7,4*	7,4*	3,9	7,3	6,5	11,2*	2,7	4,7	4,3	8,1*	2,0	3,5	3,1	5,8*	1,9	3,4	3,1	4,6*	7,6				
Front blade		-1,5 m	8,2*	8,2*	8,2*	8,2*	7,0	12,5*	12,5*	12,5*	3,9	7,2	6,4	10,8*	2,6	4,7	4,2	7,9*					2,1	3,8	3,4	5,8*	7,0				
	outriggers	-3,0 m					7,2	13,2*	13,0*	13,2*	3,9	7,3	6,5	9,4*	2,7	4,8	4,3	6,6*					2,7	4,7	4,2	6,5*	6,0				
<b>.</b>		9,0 m																													
Ď	oblock 1	7,5 m																					3,4*	3,4*	3,4*	3,4*	5,8				
5,2 m		6,0 m													3,3	5,3*	5,0	5,3*					2,5	3,1*	3,1*	3,1*	7,0				
mono		4,5 m													3,2	5,3	4,8	5,7*	2,2	3,7	3,4	4,3*	2,1	3,1*	3,1*	3,1*	7,7				
boom		3,0 m					8,3	12,8*	12,8*	12,8*	4,6	8,1	7,2	8,2*	3,0	5,1	4,6	6,6*	2,1	3,6	3,3	5,7*	1,9	3,2*	2,9	3,2*	8,1				
3,0 m dippe		1,5m 0,0 m					6,4* 6,9	6,4* 7,8*	6,4* 7,8*	6,4* 7,8*	4,2 3,9	7,6 7,3	6,8	10,1* 11,0*	2,8	4,9 4,7	4,4	7,4* 8,0*	2,0	3,5	3,2	6,1* 6,3*	1,8	3,1	2,8	3,4* 3,9*	8,2				
Front	dozer	-1,5 m	7,4*	7,4*	7,4*	7,4*	6,9	11,6*	11,6*	11,6*	3,8	7,1	6,3	11,0*	2,6	4,6	4,2	8,0*	2,0	0, .	0,.	0,0	1,9	3,4	3,1	4,7*	7,4				
blade		-3,0 m	11,4*	11,4*	11,4*	11,4*	7,0	14,2*	12,8*	14,2*	3,8	7,2	6,4	9,9*	2,6	4,7	4,2	7,1*					2,4	4,2	3,8	6,2*	6,5				
Rear	outriggers	-4,5 m					7,3	10,1*	10,1*	10,1*	4,0	7,0*	6,6	7,0*									3,5	6,1	5,7	6,1*	5,0				
Ď		9,0 m													0.5								0.0	4.04	4.04	4.04	0.0				
		7,5 m 6,0 m													3,5	5,5* 5,3*	5,2 5,2	5,5* 5,3*					3,3 2,5	4,8* 4,1	4,8* 3,7	4,8* 4,4*	6,2 7,4				
5,2 m		4,5 m													3,5	5,6	5,1	5,8*	2,5	4,0	3,6	5,6*	2,2	3,5	3,2	4,3*	8,0				
mono boom		3,0 m									4,9	8,2*	7,6	8,2*	3,3	5,4	4,9	6,7*	2,4	3,9	3,5	5,9*	2,0	3,2	3,0	4,4*	8,4				
3,2 m		1,5 m									4,5	7,9	7,1	10,2*	3,1	5,2	4,7	7,6*	2,3	3,8	3,4	6,3*	1,9	3,2	2,9	4,6*	8,5				
dippe for gra		0,0 m					7.0	10.54	10.54	10.51	4,2	7,6	6,8	11,3*	2,9	5,0	4,5	8,2*	2,2	3,7	3,3	6,6*	1,9	3,2	2,9	5,0*	8,3				
-	dozer blade	-1,5 m -3,0 m	10.5*	10.5*	10,5*	10.5*	7,3 7,4	10,5* 15,1*		15,1*	4,1 4,1	7,5 7,5	6,6 6,7	11,4* 10,4*	2,9	4,9 4,9	4,4 4,4	8,3* 7,6*	2,2	3,6	3,3	6,4*	2,1	3,5 4,1	3,2	5,8* 6,2*	7,8 6,9				
Rear	outriggers	-4,5 m	10,5	10,0	10,0	10,5				11,3*	4,3	7,6		7,9*	2,0	4,5	7,7	7,0					3,4	5,8	5,2	5,9*	5,4				
-T-		9,0 m																													
Ů		7,5 m																					4,3	4,4*	4,4*	4,4*	5,1				
		6,0 m									FO	7.0+	7.0+	7.0*	3,3	5,9*	4,8	5,9*					2,9	4,0*	4,0*	4,0*	6,4				
5,2 m		4,5 m 3,0 m									5,0 4,6	7,2* 9,0*	7,2* 7,0	7,2* 9,0*	3,2	6,3* 6,3	4,7 4,5	6,3* 7,0*	2,1	4,5	3,2	5,0*	2,4	3,9* 4,0*	3,5	3,9* 4,0*	7,2 7,6				
mono boom		1,5 m									4,0	9,7	6,6	10,6*	2,9	6,1	4,3	7,8*	2,1	4,4	3,1	6,3*	2,0	4,0	3,0	4,3*	7,7				
2,45 ı	m	0,0 m					7,0*	7,0*	7,0*	7,0*	4,0	9,4		11,2*	2,7	6,0	4,2	8,1*					2,0	4,3	3,1	5,0*	7,5				
dippe		-1,5 m					7,2	12,8*	12,7	12,8*	4,0	9,3		10,8*	2,7	5,9	4,2	7,9*					2,3	4,8	3,5	6,2*	6,9				
outrig	and rear	-3,0 m					7,3	12,8*	12,8*	12,8*	4,0	9,2	6,4	9,2*									2,8	6,2	4,4	6,6*	5,9				
		-4,5 m 9,0 m																													
Ü		7,5 m																					4,1	4,1*	4,1*	4,1*	5,3				
¥		6,0 m													3,3	5,8*	4,8	5,8*					2,8	3,7*	3,7*	3,7*	6,6				
5,2 m		4,5 m									5,0	7,0*	7,0*	7,0*	3,2	6,1*	4,7	6,1*					2,3	3,6*	3,4	3,6*	7,3				
mono		3,0 m									4,6	8,8*	7,1	8,8*	3,0	6,3	4,6	6,9*	2,2	4,5	3,2	5,5*	2,0	3,7*	3,1	3,7*	7,7				
boom 2,6 m		1,5 m 0,0 m					7,1	7,4*	7,4*	7,4*	4,2	9,7	6,6 6,4	10,5* 11,2*	2,9	6,1 6,0	4,4	7,7* 8,1*	2,1	4,4 4,3	3,1	6,3* 5,8*	1,9	4,1* 4,2	2,9	4,1* 4,6*	7,8 7,6				
dippe		-1,5 m	8,2*	8,2*	8,2*	8,2*	7,1	12,5*	12,5*	12,5*	3,9	9,3		10,8*	2,7	5,9	4,2	7,9*	2,0	7,0	0,1	0,0	2,0	4,2	3,3	5,8*	7,0				
	and rear	-3,0 m					_	13,2*		13,2*	4,0	9,4	6,4	9,4*	2,7	6,0	4,2	6,6*					2,7	5,9	4,2	6,5*	6,0				
outrig	gers	-4,5 m																													

<sup>1.</sup> Working pressure with Power Boost = 36 MPa.
2. The above values are 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.
3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load.

At the arm end, without bucket and quick fit. Unit:  $1000 \ \text{kg}$ .

For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values.

_	• Across	Arm end	Reach from machine centre (a – support a dwn)																								
	under- carriage	(bucket pivot)		1,5	m			3,0	) m			4,5	m			6,0	m			7,5	m			Ма	ıx. rea	ch	
<u></u>	Along under-	related to ground	-		Ū		o <del>d</del>		į	j	ı-Ę	<b>.</b>	į	<u></u>	o <del>-</del> Ę		į	<u></u>	ı-Ę		Ů				Ū		Max.
	carriage	level 9,0 m	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m
		9,0 m																					3,4*	3,4*	3,4*	3,4*	5,8
		6,0 m													3,4	5,3*	4,9	5,3*					2,5	3,1*	3,1*	3,1*	7,0
5,2 r	n	4,5 m													3,3	5,7*	4,8	5,7*	2,2	4,3*	3,3	4,3*	2,1	3,1*	3,1*	3,1*	7,7
	oblock	3,0 m					8,4		12,8*	12,8*	4,7	8,2*	7,2	8,2*	3,1	6,4	4,6	6,6*	2,2	4,5	3,2	5,7*	1,9	3,2*	2,8	3,2*	8,1
boon 3,0 r		1,5 m 0,0 m					6,4* 7,0	6,4* 7,8*	6,4* 7,8*	6,4* 7,8*	4,2	9,7	6,7	10,1* 11,0*	2,9	6,1	4,4 4,2	7,4* 8,0*	2,1	4,4	3,1	6,1* 6,3*	1,8	3,4* 3,9*	2,7	3,4* 3,9*	8,2 8,0
	er arm	-1,5 m	7,4*	7,4*	7,4*	7,4*	7,0	11,6*	11,6*	11,6*	3,9	9,3	6,3	11,0*	2,6	5,9	4,1	8,0*	2,0	4,0	0,1	0,0	2,0	4,3	3,1	4,7*	7,4
	t and rear	-3,0 m	11,4*	11,4*	11,4*		7,1	14,2*	12,7	14,2*	3,9	9,3	6,3	9,9*	2,7	5,9	4,1	7,1*					2,4	5,2	3,7	6,2*	6,5
outri	ggers	-4,5 m					7,4	10,1*	10,1*	10,1*	4,1	7,0*	6,5	7,0*									3,6	6,1*	5,6	6,1*	5,0
鼎		9,0 m																									
Ü		7,5 m 6,0 m													3,6	5,5* 5,3*	5,1 5,1	5,5* 5,3*					3,4	4,8* 4,4*	4,8* 3,7	4,8* 4,4*	6,2 7,4
5,2 r		4,5 m													3,5	5,8*	5,0	5,8*	2,5	4,8	3,6	5,6*	2,0	4,4	3,2	4,4	8,0
boon	oblock	3,0 m									5,0	8,2*	7,5	8,2*	3,3	6,6	4,8	6,7*	2,4	4,7	3,5	5,9*	2,0	4,0	2,9	4,4*	8,4
3,2 r		1,5 m									4,6	10,1	7,0	10,2*	3,1	6,4	4,6	7,6*	2,3	4,6	3,4	6,3*	1,9	3,9	2,8	4,6*	8,5
	er arm	0,0 m									4,3	9,7	6,7	11,3*	3,0	6,2	4,5	8,2*	2,2	4,5	3,3	6,6*	2,0	3,9	2,9	5,0*	8,3
for g	rab t and rear	-1,5 m					7,4	10,5*	10,5*	10,5*	4,2	9,6	6,6	11,4*	2,9	6,1	4,4	8,3*	2,2	4,5	3,3	6,4*	2,1	4,3	3,1	5,8*	7,8
	ggers	-3,0 m	10,5*	10,5*	10,5*	10,5*	7,5		13,1 11,3*	15,1* 11,3*	4,2	9,6	6,6	10,4*	2,9	6,1	4,4	7,6*					2,5	5,1 5,9	3,7	6,2*	6,9
		-4,5 m 9,0 m					7,7	11,3	11,3	11,3	4,3	7,9*	0,7	7,9*									3,4	5,9	5,2	5,9	5,4
Ů		7,5 m																					4,0*	4,4*	4,4*	4,4*	5,1
$\Box$		6,0 m													3,1	4,1	4,8	5,9*					2,7	3,6	4,0	4,0*	6,4
5,2 r	n	4,5 m									4,7	6,3	7,2*	7,2*	3,0	4,0	4,7	6,3*					2,2	2,9	3,5	3,9*	7,2
mon	oblock	3,0 m									4,3	5,8	7,0	9,0*	2,8	3,8	4,5	7,0*	2,0	2,7	3,2	5,0*	1,9	2,6	3,1	4,0*	7,6
boon 2,45		1,5 m					6.6	7,0*	7,0*	7,0*	3,9	5,4	6,6	10,6* 11,2*	2,6	3,6	4,3	7,4	1,9	2,6	3,1	5,2	1,8	2,5	3,0	4,3*	7,7
	er arm	0,0 m					6,6	10,0	12,7	12,8*	3,6	5,2 5,2	6,4	10,8*	2,5	3,5	4,2 4,1	7,2 7,2					1,9	2,6	3,1	5,0° 5,8°	7,5 6,9
	dozer	-3,0 m					6,8	10,2		12,8*	3,7	5,3	6,4	9,2*	2,0	0, .	.,.	.,_					2,6	3,6	4,3	6,6*	5,9
blade	е	-4,5 m																									
I		9,0 m																									
Ů		7,5 m													0.4	4.4	4.0	F 04					3,8	4,1*	4,1*	4,1*	5,3
		6,0 m 4,5 m									4,7	6,3	7,0*	7,0*	3,1	4,1	4,8	5,8* 6,1*					2,6	3,5	3,7*	3,7* 3,6*	6,6 7,3
5,2 r	n oblock	3,0 m									4,3	5,9	7,0	8,8*	2,8	3,8	4,5	6,9*	2,0	2,7	3,2	5,3	1,9	2,6	3,0	3,7*	7,7
boon		1,5 m									3,9	5,4	6,6	10,5*	2,6	3,6	4,3	7,4	1,9	2,6	3,1	5,2	1,8	2,5	2,9	4,1*	7,8
2,6 r		0,0 m					6,5	7,4*	7,4*	7,4*	3,7	5,2	6,4	11,2*	2,5	3,5	4,2	7,2	1,8	2,6	3,1	5,1	1,8	2,5	3,0	4,6*	7,6
	er arm dozer	-1,5 m	8,2*	8,2*	8,2*	8,2*	6,6	9,9		12,5*	3,6	5,2	6,3	10,8*	2,5	3,4	4,1	7,2					2,0	2,8	3,3	5,6*	7,0
blade		-3,0 m					6,7	10,1	12,8	13,2*	3,7	5,2	6,4	9,4*	2,5	3,5	4,2	6,6*					2,5	3,5	4,2	6,5*	6,0
		9,0 m																									
ð		7,5 m																					3,3	3,4*	3,4*	3,4*	5,8
$\subseteq$		6,0 m													3,1	4,2	4,9	5,3*					2,4	3,1*	3,1*	3,1*	7,0
5,2 r	n	4,5 m													3,0	4,0	4,8	5,7*	2,1	2,8	3,3	4,3*	1,9	2,6	3,1*	3,1*	7,7
	oblock	3,0 m					7,9	11,4	12,8*		4,4	6,0	7,1	8,2*	2,8	3,8	4,6	6,6*	2,0	2,7	3,2	5,3	1,7	2,4	2,8	3,2*	8,1
boon 3,0 r		1,5 m 0,0 m					6,4	6,4* 7,8*	6,4* 7,8*	6,4* 7,8*	3,9	5,5 5,2	6,6 6,3	10,1* 11,0*	2,6 2,5	3,6	4,3 4,2	7,4* 7,2	1,9	2,6 2,5	3,1	5,2 5,1	1,6 1,7	2,3	2,7	3,4* 3,9*	8,2 8,0
	er arm	-1,5 m	7,4*	7,4*	7,4*	7,4*	6,4	9,8	11,6*	11,6*	3,6	5,1	6,2	11,0*	2,3	3,4	4,1	7,2	1,0	2,0	3,0	5,1	1,8	2,5	3,0	4,7*	7,4
	dozer	-3,0 m		11,4*			6,6	9,9		14,2*	3,6	5,1	6,3	9,9*	2,4	3,4	4,1	7,1*					2,2	3,1	3,7	6,2*	6,5
blade	9	-4,5 m					6,9	10,1*	10,1*	10,1*	3,8	5,3	6,5	7,0*									3,3	4,6	5,6	6,1*	5,0
J.		9,0 m																									
Ů		7,5 m													3,4	4,4	5,1	5,5*					3,1	4,1	4,8	4,8*	6,2
5,2 r		6,0 m 4,5 m													3,4	4,4	5,1 5,0	5,3* 5,8*	2,3	3,0	3,5	5,6*	2,4	3,1 2,7	3,7	4,4* 4,3*	7,4 8,0
mone	oblock	3,0 m									4,7	6,3	7,5	8,2*	3,1	4,1	4,8	6,7*	2,3	3,0	3,5	5,5	1,9	2,7	2,9	4,4*	8,4
3,2 r		1,5 m									4,3	5,8	7,0	10,2*	2,9	3,9	4,6	7,6*	2,1	2,9	3,4	5,4	1,8	2,4	2,8	4,5	8,5
dippe	er arm	0,0 m									4,0	5,5	6,7	11,3*	2,8	3,7	4,4	7,5	2,1	2,8	3,3	5,3	1,8	2,4	2,9	4,6	8,3
for g	rab dozer	-1,5 m							10,5*		3,9	5,4	6,5	11,4*	2,7	3,7	4,4	7,4	2,0	2,7	3,2	5,3	1,9	2,6	3,1	5,0	7,8
blade		-3,0 m	10,5*	10,5*	10,5*	10,5*	-	10,3*		15,1*	3,9	5,4		10,4*	2,7	3,7	4,4	7,4					2,3	3,1	3,7	6,0	6,9
3.00		-4,5 m					7,2	10,6*	11,3*	11,3*	4,0	5,6	6,7	7,9*									3,2	4,3	5,1	5,9*	5,4

<sup>1.</sup> Working pressure with Power Boost = 36 MPa.
2. The above values are 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.
3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load.

At the arm end, without bucket and quick fit. Unit: 1000 kg. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values.

	<b>\</b> Across	Arm end	Arm end Reach from machine centre (u = support/d = support down) (bucket																							
-	under- carriage	pivot) 1,5 m				3,0	m			4,5	m			6,0	m		7,5 m				Max. reach					
₫	Along under-	related to ground		ð	<b>□</b>		į	<b>B</b>	<u>ا</u>	5	į	<u>J</u>	œ		į	ħ	œ	5	į	ħ	œ	5	į	j	Max.	
	carriage	level 9,0 m	u d	u d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m	
ð		7,5 m							4,6*	4,6*	4,6*	4,6*									3,9	4,5*	4,5*	4,5*	5,3	
•		6,0 m			7.5+	7.5+	7.5+	7.5+	4,7*	4,7*	4,7*	4,7*	3,3	4,9*	4,9*	4,9*					2,7	4,0*	4,0*	4,0*	6,6	
5,3 n		4,5 m 3,0 m			7,5*	7,5*	7,5*	7,5*	5,0 4,5	5,9* 7,9*	5,9* 7,2	5,9* 7,9*	3,2	5,3* 5,1	4,9 4,6	5,3* 6,2*	2,1	3,6	3,3	5,5*	2,2	3,8	3,4	3,9*	7,4 7,8	
2-pie 2,45	ce boom m	1,5 m							4,1	7,5	6,7	9,8*	2,8	4,9	4,4	7,1*	2,0	3,5	3,2	5,9*	1,9	3,3	3,0	4,2*	7,9	
	er arm	0,0 m							3,9	7,3		10,8*	2,7	4,8	4,3	7,8*	2,0	3,5	3,1	6,2*	1,9	3,4	3,0	4,7*	7,7	
blade	dozer	-1,5 m -3,0 m			6,9 7,1	11,3* 14,9*	11,3*	11,3* 14,9*	3,8	7,2 7,3	6,4	11,0* 10,2*	2,6	4,7	4,2	8,0* 7,3*					2,1	3,7	3,4	5,7* 7,1*	7,1 6,1	
_	outriggers	-4,5 m			7,1	14,9	10,1	14,9	3,9	1,3	0,5	10,2	2,1	4,8	4,3	7,3					2,0	4,7	4,2	7,1	0,1	
兄		9,0 m																								
Ď		7,5 m							4,4*	4,4*	4,4*	4,4*									3,7	4,1*	4,1*	4,1*	5,5	
-		6,0 m			7,0*	7.0*	7,0*	7,0*	4,5*	4,5*	4,5*	4,5*	3,3	4,7* 5,2*	4,7*	4,7* 5,2*	2,2	3,7	3,4	3,9*	2,6	3,7* 3,6*	3,7*	3,7*	6,8	
5,3 n		4,5 m 3,0 m			7,0	7,0*	7,0	7,0	5,0 4,5	5,7* 7,7*	5,7* 7,2	5,7* 7,7*	3,0	5,2	4,9 4,7	6,0*	2,2	3,6	3,3	5,4*	1,9	3,3	3,3	3,6* 3,7*	7,5 7,9	
2-pie	ce boom	1,5 m							4,1	7,6	6,7	9,6*	2,8	4,9	4,4	7,0*	2,0	3,5	3,2	5,8*	1,8	3,2	2,9	3,9*	8,0	
,	er arm	0,0 m			6,0*	6,0*	6,0*	6,0*	3,9	7,3	6,5	10,7*	2,6	4,8	4,3	7,7*	1,9	3,5	3,1	6,2*	1,8	3,3	3,0	4,4*	7,8	
Front	dozer	-1,5 m			6,9	11,1*	11,1*	11,1*	3,8	7,2	6,4	11,0*	2,6	4,7	4,2	8,0*					2,0	3,6	3,3	5,3*	7,2	
	outriggers	-3,0 m -4,5 m			7,0	15,1	13,0	15,2*	3,9	7,3	6,4	10,3*	2,6	4,7	4,2	7,4*					2,5	4,5	4,0	6,9*	6,3	
		9,0 m																								
Ď		7,5 m											3,3	3,8*	3,8*	3,8*					3,3	3,5*	3,5*	3,5*	6,1	
		6,0 m											3,4	4,3*	4,3*	4,3*					2,4	3,2*	3,2*	3,2*	7,2	
5,3 n	1	4,5 m			0.0	44.0	44.04	44.04	5,0*	5,0*	5,0*	5,0*	3,2	4,8*	4,8*	4,8*	2,2	3,8	3,4	4,7*	2,0	3,1*	3,1	3,1*	7,9	
	ce boom	3,0 m			8,3	11,2	11,2*	11,2	4,6 4,1	7,0* 7,6	7,0* 6,8	7,0* 9,1*	3,0	5,2 4,9	4,7	5,7* 6,7*	2,1	3,7	3,3	5,1°	1,8	3,1	2,8	3,1*	8,3	
3,0 n	r arm	0,0 m			6,6*	6,6*	6,6*	6,6*	3,9	7,3		10,4*	2,6	4,7	4,3	7,5*	1,9	3,4	3,1	6,1*	1,7	3,0	2,7	3,7*	8,2	
	dozer	-1,5 m			6,7	10,4*	10,4*	10,4*	3,7	7,1	6,3	10,9*	2,5	4,6	4,2	7,9*	1,9	3,4	3,1	6,1*	1,8	3,3	3,0	4,4*	7,7	
blade	outriggers	-3,0 m			6,9	14,9	12,8	15,8*	3,8	7,2	6,3	10,6*	2,6	4,7	4,2	7,7*					2,2	4,0	3,6	5,8*	6,8	
显		9,0 m							4,8*	4,8*	4,8*	4,8*									4,9*	4,9*	4,9*	4,9*	4,6	
Ď		7,5 m											3,6	4,4*	4,4*	4,4*					3,2	4,8*	4,6*	4,8*	6,5	
5,3 n	1	6,0 m							F 0*	F 0*	F 0+	F.O+	3,6	4,3*	4,3*	4,3*	2,5	4,0	3,7	4,8*	2,4	4,0	3,6	4,4*	7,6	
	ce boom	4,5 m 3,0 m							5,0* 4,9	5,0°	5,0* 7,0*	5,0* 7,0*	3,5	4,8* 5,5	4,8° 5,0	4,8* 5,8*	2,5	4,0 3,9	3,7	4,8* 5,2*	2,1	3,4	3,1	4,3* 4,3*	8,2 8,6	
3,2 n	n er arm	1,5 m							4,5	8,0	7,1	9,2*	3,1	5,2	4,7	6,8*	2,3	3,8	3,4	5,8*	1,8	3,1	2,8	4,5*	8,7	
for g	ab	0,0 m							4,2	7,6	6,8	10,6*	2,9	5,0	4,5	7,7*	2,2	3,7	3,3	6,3*	1,8	3,1	2,8	4,9*	8,5	
	dozer	-1,5 m			7,1	9,1*	9,1*	9,1*	4,1	7,5		11,2*	2,8	4,9	4,4	8,2*	2,1	3,6	3,3	6,5*	2,0	3,4	3,0	5,5*	8,0	
blade Rear	outriggers	-3,0 m -4,5 m			7,2	15,1*	13,2	15,1*	4,1	7,5 7,6		11,0* 9,5*	2,8	4,9	4,4	8,1*					2,3	3,9 6,2	3,6 5,6	6,4* 8,1*	7,1 5,2	
		9,0 m							4,2	7,0	0,0	9,0									0,0	0,2	5,0	0,1	5,2	
Ů		7,5 m							4,6*	4,6*	4,6*	4,6*									4,0	4,5*	4,5*	4,5*	5,3	
<u>, , , , , , , , , , , , , , , , , , , </u>		6,0 m							4,7*	4,7*	4,7*	4,7*	3,3	4,9*	4,9*	4,9*					2,8	4,0*	4,0*	4,0*	6,6	
		4,5 m			7,5*	7,5*	7,5*	7,5*	5,0	5,9*	5,9*	5,9*	3,2	5,3*	4,8	5,3*	0.1	4.5	2.0	E 5*	2,3	3,9*	3,4	3,9*	7,4	
5,3 n		3,0 m							4,6 4,1	7,9* 9,7	7,1 6,6	7,9* 9,8*	3,0	6,2* 6,2	4,6 4,4	6,2* 7,1*	2,1	4,5 4,4	3,2	5,5* 5,9*	2,0	3,9* 4,1	3,0 2,9	3,9* 4,2*	7,8 7,9	
2-pie 2.45	ce boom m	0,0 m							3,9	9,5		10,8*	2,7	6,0	4,2	7,8*	2,0	4,3	3,1	6,2*	1,9	4,2	3,0	4,7*	7,7	
dippe	er arm	-1,5 m			7,0	11,3*	11,3*	11,3*	3,9	9,4		11,0*	2,6	5,9	4,2	8,0*					2,1	4,7	3,3	5,7*	7,1	
Front	and rear	-3,0 m			7,2	14,9*	12,9	14,9*	3,9	9,5	6,4	10,2*	2,7	6,0	4,2	7,3*					2,6	5,9	4,1	7,1*	6,1	
	ggers	-4,5 m																								
Ů		9,0 m 7,5 m							4,4*	4,4*	4,4*	4,4*									3,8	4,1*	4,1*	4,1*	5,5	
Ų		6,0 m							4,5*	4,5*	4,5*	4,5*	3,4	4,7*	4,7*	4,7*					2,7	3,7*	3,7*	3,7*	6,8	
		4,5 m			7,0*	7,0*	7,0*	7,0*	5,1	5,7*	5,7*	5,7*	3,2	5,2*	4,8	5,2*	2,2	3,9*	3,3	3,9*	2,2	3,6*	3,3	3,6*	7,5	
5,3 n		3,0 m							4,6	7,7*	7,1	7,7*	3,0	6,0*	4,6	6,0*	2,1	4,5	3,3	5,4*	1,9	3,7*	3,0	3,7*	7,9	
2-pie 2,6 m	ce boom	1,5 m 0,0 m			6,0*	6,0*	6,0*	6,0*	4,2 3,9	9,6* 9,5	6,6	9,6* 10,7*	2,8	6,2* 6,0*	4,4	7,0* 7,7*	2,1	4,4	3,2	5,8* 6,2*	1,9 1,9	3,9* 4,1	2,9	3,9* 4,4*	8,0 7,8	
	n er arm	-1,5 m			7,0		11,1*	11,1*	3,9	9,5		11,0*	2,7	5,9	4,2	8,0*	2,0	+,0	٥,١	0,2	2,1	4,1	3,2	4,4 5,3*	7,8	
Front	and rear	-3,0 m			7,1		12,8		3,9	9,4		10,3*	2,7	6,0	4,2	7,4*					2,5	5,6	3,9	6,9*	6,3	
outri	ggers	-4,5 m																								

<sup>1.</sup> Working pressure with Power Boost = 36 MPa.
2. The above values are 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.
3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load.

At the arm end, without bucket and quick fit. Unit:  $1000 \ \text{kg}$ .

For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values.

Across	Arm end				Reach	n from	n mac	hine c	entre	e (u = :	suppo	ort/d :	= sup	port d	lown)								
under- carriage	(bucket pivot)	1,5 m		3,0	m			4,5	m			6,0	m			7,5	m		Max. reach				
Along under-carriage	related to ground level		u d		7	u d		j d		j d	o <del>_</del> €	d	ָּ น	j d	<u>-</u>	<b>5</b>	u d		u d		u d		Max.
-R-	9,0 m		<u> </u>			ŭ.	u	u				ŭ	u	ŭ	u			- u	u	u	u		
	7,5 m										3,4	3,8*	3,8*	3,8*					3,3	3,5*	3,5*	3,5*	6,1
••	6,0 m								= 0.		3,4	4,3*	4,3*	4,3*					2,4	3,2*	3,2*	3,2*	7,2
	4,5 m 3,0 m		Ω /	11,2*	11.0*	11 0*	5,0* 4,7	5,0°	5,0* 7,0*	5,0* 7,0*	3,3	4,8* 5,7*	4,8* 4,6	4,8* 5,7*	2,2	4,6 4,5	3,4	4,7* 5,1*	2,0	3,1* 3,1*	3,0 2,8	3,1*	7,9 8,3
5,3 m	1,5 m		0,4	11,2	11,2	11,2	4,2	9,1*	6,7	9,1*	2,8	6,2	4,4	6,7*	2,0	4,4	3,2	5,6*	1,7	3,3*	2,7	3,3*	8,4
2-piece boom 3,0 m	0,0 m		6,6*	6,6*	6,6*	6,6*	3,9	9,4	6,4	10,4*	2,7	6,0	4,2	7,5*	2,0	4,3	3,1	6,1*	1,7	3,7*	2,7	3,7*	8,2
dipper arm	-1,5 m		6,8	10,4*	10,4*	10,4*	3,8	9,3	6,2	10,9*	2,6	5,9	4,1	7,9*	1,9	4,3	3,0	6,1*	1,9	4,1	2,9	4,4*	7,7
Front and rear	-3,0 m		7,0	15,8*	12,6	15,8*	3,8	9,3	6,3	10,6*	2,6	5,9	4,1	7,7*					2,2	3,0	3,5	5,8*	6,8
outriggers	-4,5 m																						
	9,0 m						4,8*	4,8*	4,8*	4,8*	2.6	4.4*	4 4*	4 4*					4,9*	4,9*	4,9*	4,9*	4,6
<u> </u>	7,5 m 6,0 m										3,6	4,4* 4,3*	4,4* 4,3*	4,4* 4,3*	2,5	4,8*	3,6	4,8*	3,2 2,5	4,8* 4,4*	4,6 3,6	4,8* 4,4*	6,5 7,6
5.0	4,5 m						5,0*	5,0*	5,0*	5,0*	3,5	4,8*	4,8*	4,8*	2,5	4,8*	3,6	4,8*	2,1	4,2	3,1	4,3*	8,2
5,3 m 2-piece boom	3,0 m						5,0	7,0*	7,0*	7,0*	3,3	5,8*	4,9	5,8*	2,4	4,8	3,5	5,2*	1,9	3,9	2,8	4,3*	8,6
3,2 m	1,5 m						4,5	9,2*	7,1	9,2*	3,1	6,5	4,7	6,8*	2,3	4,7	3,4	5,8*	1,9	3,8	2,8	4,5*	8,7
dipper arm	0,0 m						4,2	9,8	6,7	10,6*	3,0	6,3	4,5	7,7*	2,2	4,6	3,3	6,3*	1,9	3,8	2,8	4,9*	8,5
for grab Front and rear	-1,5 m		7,2	9,1*	9,1*	9,1*	4,1	9,6	6,6	11,2*	2,9	6,2	4,4	8,2*	2,2	4,5	3,2	6,5*	2,0	4,2	3,0	5,5*	8,0
outriggers	-3,0 m -4,5 m		7,3	15,1*	13,0	15,1*	4,1	9,6 9,5*	6,6	11,0* 9,5*	2,8	6,2	4,4	8,1*					2,3	4,9 7,8	3,5 5,5	6,4* 8,1*	7,1 5,2
	9,0 m						4,2	9,5	0,7	9,0									3,0	1,0	5,5	0,1	5,2
Ů	7,5 m						4,6*	4,6*	4,6*	4,6*									3,7	4,5*	4,5⁺	4,5*	5,3
$\Box$	6,0 m						4,7*	4,7*	4,7*	4,7*	3,1	4,2	4,9	4,9*					2,6	3,5	4,0*	4,0*	6,6
	4,5 m		7,5*	7,5*	7,5*	7,5*	4,7	5,9*	5,9*	5,9*	3,0	4,0	4,8	5,3*					2,1	2,8	3,4	3,9*	7,4
5,3 m	3,0 m						4,3	5,9	7,1	7,9*	2,8	3,8	4,6	6,2*	2,0	2,7	3,2	5,3	1,8	2,5	3,0	3,9*	7,8
2-piece boom	1,5m						3,8	5,4	6,6	9,8*	2,6	3,6	4,3	7,1*	1,9	2,6	3,1	5,2	1,7	2,4	2,9	4,2*	7,9
2,45 m dipper arm	0,0 m		6,5	9,9	11,3*	11,3*	3,6	5,2 5,1	6,3	10,8* 11,0*	2,5	3,5	4,2 4,1	7,3 7,2	1,8	2,5	3,1	5,1	1,8	2,5	3,0	4,7 5,6	7,7 7,1
Rear dozer	-3,0 m		6,7	10,1	,	14,9*	3,6	5,2		10,2*	2,5	3,5	4,1	7,3*					2,4	3,4	4,1	7,1*	6,1
blade	-4,5 m		-,-		,-	,=	-,-	-,-	-, -	, _	_,-	-,-	-,-	.,.					_,.	-, -	-,-	.,.	-,:
Tr Tr	9,0 m																						
	7,5 m						4,4*	4,4*	4,4*	4,4*									3,6	4,1*	4,1*	4,1*	5,5
	6,0 m						4,5*	4,5*	4,5*	4,5*	3,1	4,2	4,7*	4,7*					2,5	3,3	3,7*	3,7*	6,8
	4,5 m 3,0 m		7,0*	7,0*	7,0*	7,0*	4,8 4,3	5,7* 5,9	5,7* 7,1	5,7* 7,7*	3,0	4,1 3,9	4,8 4,6	5,2* 6,0*	2,0	2,8	3,3	3,9* 5,3	2,0	2,8	3,3	3,6* 3,7*	7,5 7,9
5,3 m 2-piece boom	1,5 m						3,9	5,4	6,6	9,6*	2,6	3,6	4,4	7,0*	1,9	2,6	3,1	5,2	1,7	2,3	2,8	3,9*	8,0
2,6 m	0,0 m		6,0*	6,0*	6,0*	6,0*	3,6	5,2	6,3	10,7*	2,5	3,5	4,2	7,3	1,8	2,5	3,1	5,1	1,7	2,4	2,9	4,4*	7,8
dipper arm	-1,5 m		6,5	9,9	11,1*	11,1*	3,5	5,1	6,3	11,0*	2,4	3,4	4,1	7,2					1,9	2,6	3,2	5,3*	7,2
Rear dozer blade	-3,0 m		6,6	10,1	12,8	15,2*	3,6	5,2	6,3	10,3*	2,5	3,5	4,2	7,3					2,3	3,3	3,9	6,8*	6,3
	-4,5 m																						
Ü	9,0 m 7,5 m										3,2	3,8*	3,8*	3,8*					3,1	3,5⁺	3,5⁺	3,5*	61
ש	6,0 m										3,2	4,2	3,8 4,3*	3,8 4,3*					2,2	3,0	3,2*	3,2*	6,1 7,2
	4,5 m						4,9	5,0*	5,0*	5,0*	3,1	4,1	4,8*	4,8*	2,1	2,8	3,4	4,7*	1,9	2,5	3,0	3,1*	7,9
5,3 m	3,0 m		7,8	11,2*	11,2*	11,2*	4,4	6,0	7,0*	7,0*	2,9	3,9	4,6	5,7*	2,0	2,7	3,3	5,1*	1,7	2,3	2,7	3,1*	8,3
2-piece boom	1,5 m						3,9	5,5	6,7	9,1*	2,6	3,6	4,4	6,7*	1,9	2,6	3,1	5,2	1,6	2,2	2,6	3,3*	8,4
3,0 m	0,0 m		6,3	6,6*	6,6*	6,6*	3,6	5,2		10,4*	2,5	3,5	4,2	7,3	1,8	2,5	3,0	5,1	1,6	2,2	2,7	3,7*	8,2
dipper arm Rear dozer	-1,5 m		6,3	9,7		10,4*	3,5	5,1	6,2	10,9*	2,4	3,4	4,1	7,2	1,8	2,5	3,0	5,1	1,7	2,4	2,9	4,4*	7,7
blade	-3,0 m -4,5 m		6,4	9,9	12,6	15,8	3,5	5,1	0,2	10,6*	2,4	3,4	4,1	7,2					2,1	2,9	3,5	5,8*	6,8
묘	9,0 m						4,8*	4,8*	4,8*	4,8*									4,9*	4,9*	4,9*	4,9*	4,6
Ü	7,5 m										3,4	4,4*	4,4*	4,4*					3,0	3,9	4,6	4,8*	6,5
	6,0 m										3,4	4,3*	4,3*	4,3*	2,3	3,1	3,6	4,8*	2,3	3,0	3,6	4,4*	7,6
5,3 m	4,5 m						5,0	5,0*	5,0*		3,3	4,4	4,8*	4,8*	2,3	3,1	3,6	4,8*	2,0	2,6	3,1	4,3*	8,2
2-piece boom	3,0 m						4,7	6,3	7,0*	7,0*	3,1	4,2	4,9	5,8*	2,2	3,0	3,5	5,2*	1,8	2,4	2,8	4,3*	8,6
3,2 m dipper arm	1,5 m 0,0 m						4,2 3,9	5,8 5,5	7,0 6,7	9,2* 10,6*	2,9	3,9	4,7 4,5	6,8* 7,6	2,1	2,9	3,4	5,5 5,4	1,7	2,3	2,7	4,4 4,5	8,7 8,5
for grab	-1,5 m		6,7	9,1*	9,1*	9,1*	3,8	5,4	6,5	11,2*	2,6	3,6	4,3	7,5	2,0	2,7	3,2	5,3	1,7	2,5	3,0	4,9	8,0
Rear dozer	-3,0 m		6,8	10,2*		15,1*	3,8	5,4	6,5	11,0*	2,6	3,6	4,3	7,5					2,2	2,9	3,5	5,8	7,1
blade	-4,5 m						3,9	5,5	6,7	9,5*									3,3	4,5	5,5	8,1*	5,2

<sup>1.</sup> Working pressure with Power Boost = 36 MPa.
2. The above values are 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.
3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load.

# STANDARD EQUIPMENT

# **Engine**

Turbocharged, 4 stroke Volvo diesel engine with water cooling, direct injection and charged air cooler that meets EU Step IIIA emission requirements Intake air pre-heater

Electric engine shut-off

Fuel filter and water separator

Fuel filler pump: 50 1/min with automatic shut-off

Aluminium core radiator

# Electric / Electronic control system

Contronics-computerized monitoring and diagnostic system

Master electrical disconnect switch

Automatic idling system One-touch power boost

Adjustable monitor

Engine restart prevention circuit

Safety stop/start function

Care Track via satellite High capacity halogen lamps

- Frame mounted 2

- Cab mounted 2

Alternator, 80 A

Batteries, 2 x 12 V/140 Ah

Start motor, 24 V/4,8 kW

# Undercarriage

2-speed power transmission plus creep speed Oscillating front axle ± 9°

2-circuit travel brakes Maintenance-free propeller shafts

# Superstructure

Counterweight, 3 600 kg Service walkway with anti-slip grating Centralised lubricating point for slew bearing

# Digging equipment

Attachment points for extra hydraulics Centralised lubrication point

### Cab and interior

Volvo Care Cab with fixed PC roof hatch

Hydraulic dampening cab mounts

Adjustable operator seat and joystick control console

Adjustable steering wheel

Flexible antenna

Hydraulic safety lock lever

Control joystick, with 5 switches each

Cab, all-weather sound suppressed, includes:

- Cup holder
- Door locks
- Safety glass, light tinted
- Floor mat
- Horn
- Large storage area
- Pull-up type front window
- Removable lower windshield
- Seat belt

- Windshield wiper with washer and intermittent feature

Sun shield, front

Master ignition key

# Hydraulic system

Load sensing hydraulic system

Cylinder cushioning

Cylinder contamination seals

Return filter of full flow type 2 000 h exchange

Pressure relief system (servo accumulator)

Thermostatically controlled cooling fan

Hose rupture valve for boom Hydraulic oil, ISO VG 46

# **OPTIONAL EQUIPMENT**

# **Engine**

Diesel coolant heater with digital timer Block heater, 240 V

Water separator with heater

# Electric / Electronic control system

Travel alarm

Rotating beacon

Extra work lights:

- Service walkway 1 and counterweight 1

- Boom-mounted 2
- Cab front 2

Electric centre passage

Rear view camera

Care Track via GSM

Anti-theft system

Tilting and rotating attachment preparation

# Hydraulic system

Hose rupture valve for dipper arm

Boom float function

Hydraulic oil, ISO VG 32

Hydraulic oil, ISO VG 68

Hydraulic oil, biodegradable 32

Hydraulic oil, biodegradable 46

Hydraulic long life oil 32

Hydraulic long life oil 46 Hydraulic long life oil 68

Hydraulic equipment for:

- Hammer & shears
- Slope bucket/rotator
- Grab/clam shell
- Quick fit

- Flow control
- Flow and pressure control

# Cab and interior

Volvo Care Cab with openable PC roof hatch

Heater & air-conditioner, automatic

Proportional control joystick

On /off joystick

Falling object guard (FOG)

Cab mounted falling object protective structures

(FOPS)

Rain shield, front

Sun shield, roof&rear

Sunlight protection, roof hatch (steel)

Safety net for front window

Lower winer

Anti-vandalism kit

Radio & cassette

Radio with CD player and MP3 input

Ashtray

Lighter

Operator seat:

- Fabric seat, with heater

- Fabric seat, with heater and air suspension

Retractable seat belt

# Undercarriage

Twin tires 10.00 - 20 / 11.00 - 20

Single tires 18R - 19.5 / 620/40-22.5 Sparewheel

Stone protection rings

Front dozer blade and rear outriggers

Rear dozer blade Front outriggers and rear dozer blade Grab holder

Mudguards, front / rear

Tool box, left hand side / right hand side

Cruise control

Travel speed 20 km/h, 30 km/h, 35 km/h

Wide axle 2,75 m

# Digging equipment

Booms

5,2 m monoblock

5,3 m 2-piece boom Dipper arms

2,45 m, 2,6 m, 3,0 m 3,2 m grab arm

# Hydraulic quickfit

S1 system

Universal system

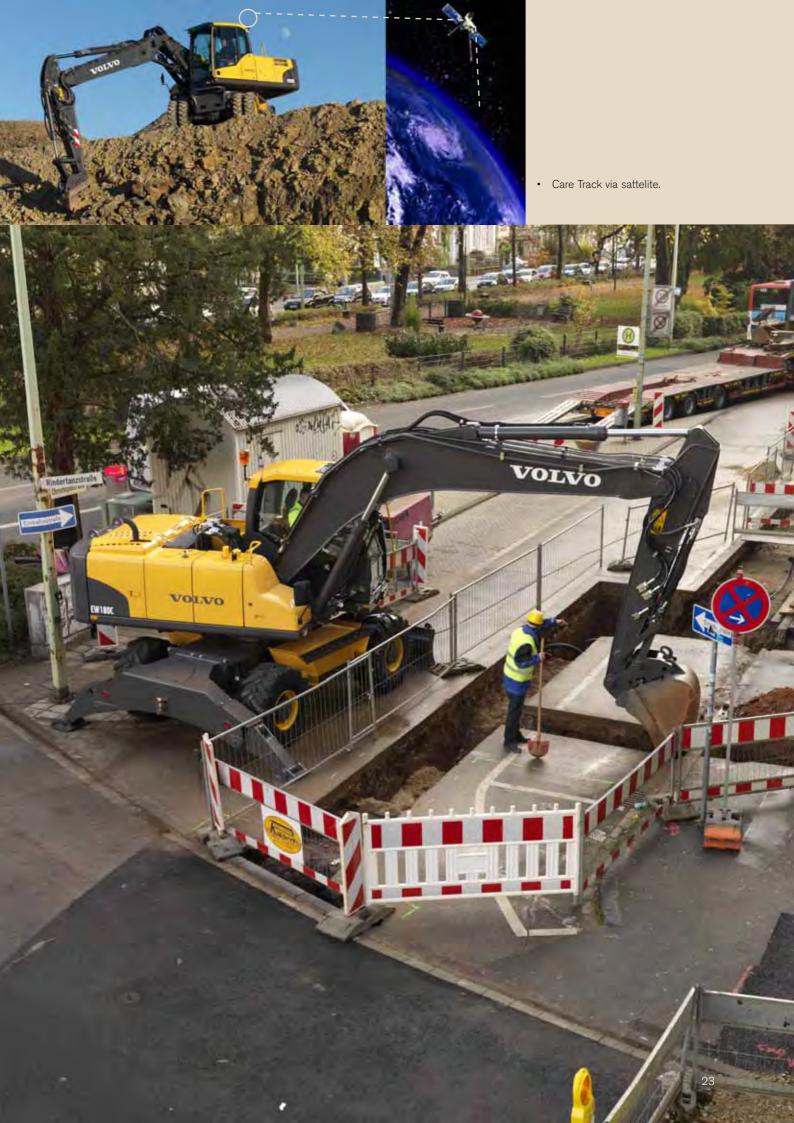
# **Attachments**

- Buckets, direct fit and quick fit: - General Purpose bucket (GP)
- Heavy Duty bucket
- Slope bucket
- Hammer bracket, S1, direct fit (universal system)
- Grab holder

# Service

Tool kit, daily maintenance Tool kit, full scale

Standard and optional equipment may vary by market. Please consult your local Volvo dealer for details.









Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 175 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different – **More care. Built in.** 



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