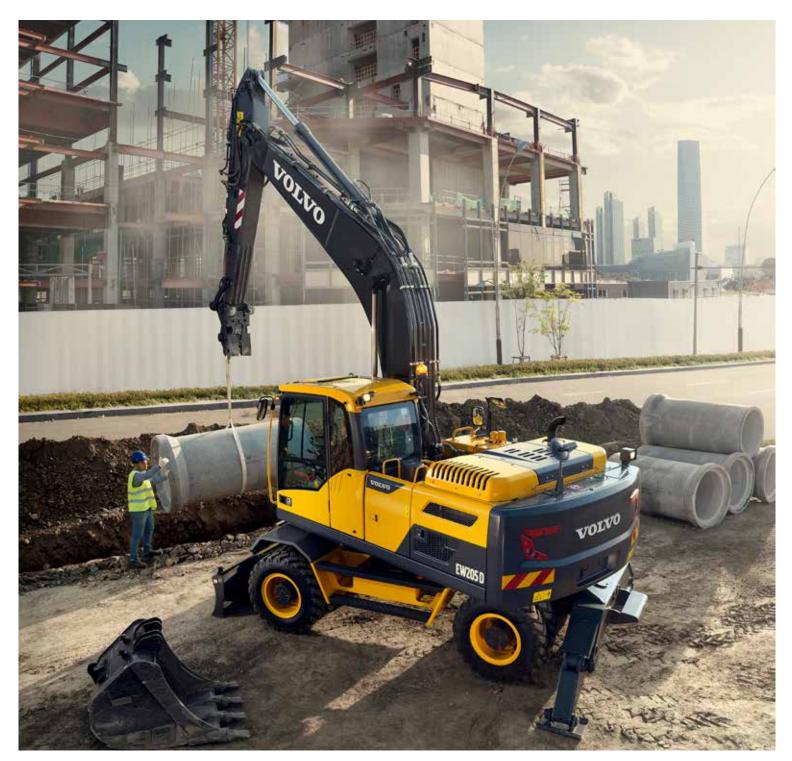
Volvo Construction Equipment Building Tomorrow



# **EW205D**

Volvo Excavators 19.8-21.8 t 176 hp





# ECO MODE

Volvo's unique ECO mode optimizes the hydraulic system to reduce flow and pressure losses – resulting in improved fuel efficiency without any loss of performance in most operating conditions. ECO mode is automatically selected but can be switched off via the keypad.

# Unrivalled fuel efficiency

Introducing the EW205D from Volvo – a new 20 ton wheeled excavator designed to drive your efficiency up. With advanced technology including Volvo's unique ECO mode and a powerful Volvo engine, this superior digging and mobile tool carrying machine works with ultimate efficiency both off and on-road.

### Volvo engine

Featuring proven, advanced technology and built on decades of experience, the Volvo D6 engine delivers the ultimate combination of low fuel consumption and high productivity. Benefit from superior performance, reliability and durability.



### Automatic idling system

Engine speed is reduced to idle when the controls are inactive for a pre-set amount of time (between 3 and 20 seconds). This reduces fuel consumption and noise.

### Optimized piping

The large diameter of the hydraulic piping on the boom and arm reduces pressure losses and improves fuel efficiency.

### Work modes

Volvo's unique, integrated work mode system optimizes fuel efficiency and machine performance. The operator can choose the best work mode for the task at hand – select from I (Idle), F (Fine), G (General), H (Heavy) and P (Power max).



### Auto engine shut down

To reduce fuel consumption, the engine will automatically switch off when the machine is inactive for a pre-set amount of time (five minutes is the default setting).



## **Command and control**

If you're looking for superior controllability and smooth and responsive movements then look no further than the EW205D. Featuring advanced hydraulics and an electronic flow- dividing control system, this excavator delivers an outstanding performance in both single and combined operations.

### Electronic flow-dividing control system

The Proportional Pressure Reducing Valve (PPRV) ensures the right amount of flow is delivered to each operation. This results in optimized control – delivering smooth and responsive movements during combined operations.



### Main control valve

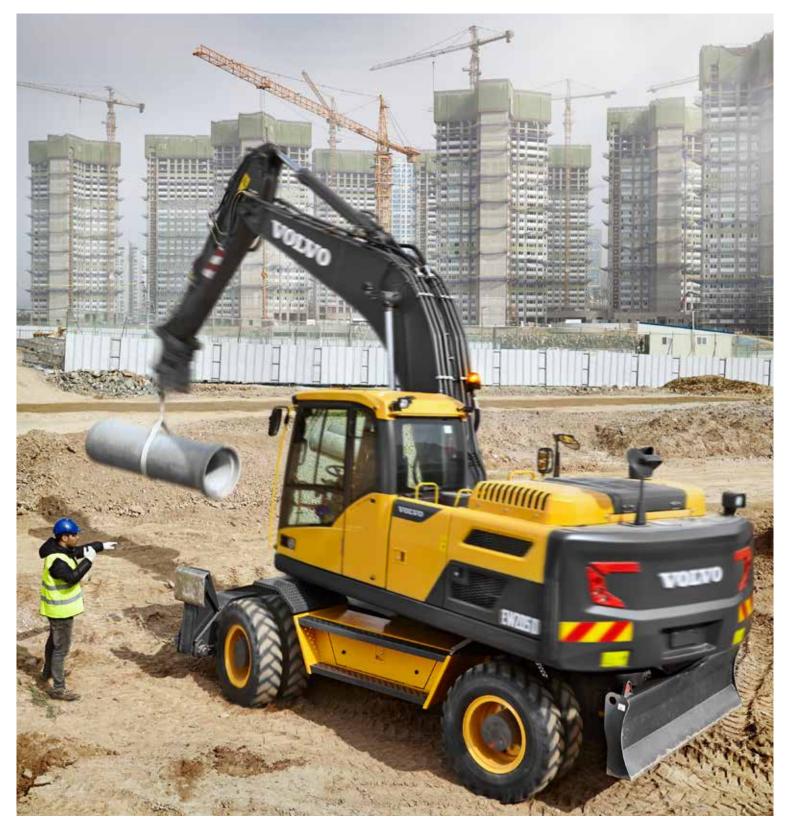
The newly developed main control valve is designed to reduce internal pressure losses and enhance the efficiency of the hydraulic system.



### Breaker and shear pedal

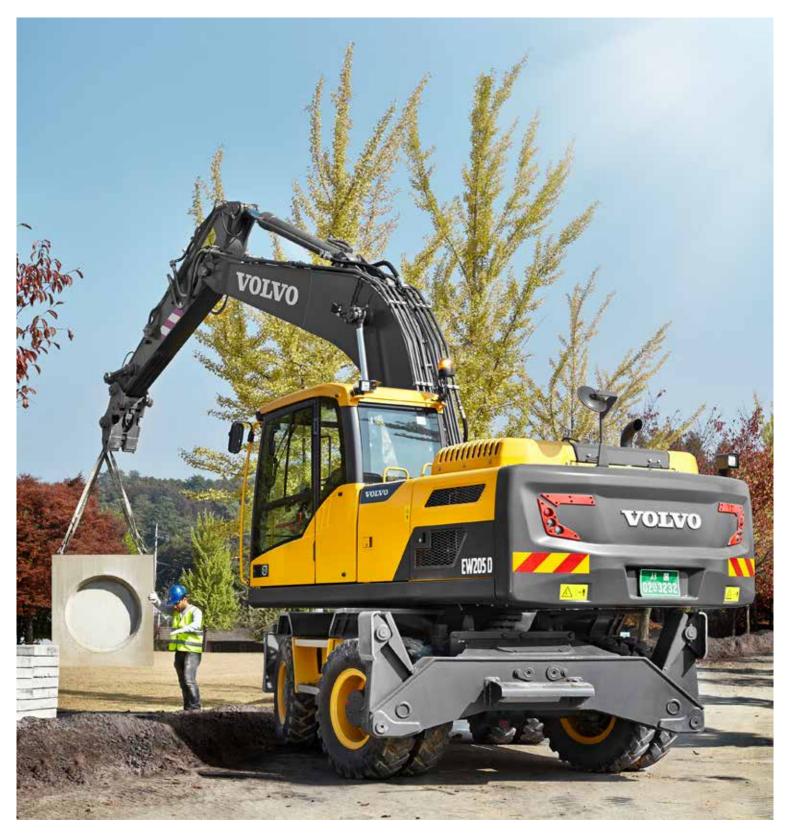
The electronically-controlled breaker and shear foot pedal delivers superior control and ease of operation.





# ADVANCED HYDRAULICS

The full electro-hydraulic system and main control valve use intelligent technology to control on-demand flow and reduce internal losses in the hydraulic circuit. This provides increased control, shorter cycle times and improved fuel efficiency.



# STABLE UNDERCARRIAGE

The well-balanced undercarriage is made from strong steel for maximum durability when operating in rough terrain as well as ultimate stability when lifting heavy loads.

# Stability you can rely on

Whether you're working in the road construction, utilities, landscaping or any other application, the EW205D has been built to handle tough terrain and work on a variety of jobsites. With a strong undercarriage and a rigid main frame, this well-balanced and durable excavator boasts superior stability.

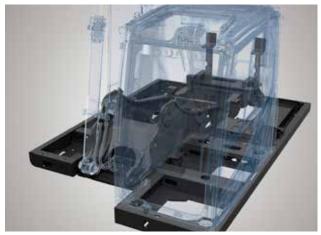
### Axle lock

For superior ground contact when traveling and operating on a slope or uneven terrain, the front axle oscillates. To keep the machine level and secure stability, the axle lock function can be both manually and automatically activated.



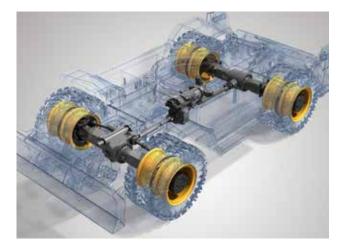
### **Rigid main frame**

The strong structure easily absorbs impacts transferred through the digging equipment. Reinforced welding between the center and side frames, and the boom and boom cylinder mounts, increases durability.



### Well-balanced driveline

The ideally-matched, Volvo driveline has been built to work in perfect harmony. The durable Volvo design delivers excellent control for smooth travel, superior performance and high productivity.



### Dozer blade and outriggers

A robust dozer blade and outriggers optimize machine stability and increase versatility – enabling the excavator to carry out a variety of tasks including lifting, loading and grading.



# **Comfort counts**

When you have a long day ahead of you it's important to know you'll be working in comfort. That's why Volvo has developed a spacious and comfortable operating environment with ergonomic controls, all-around visibility and vibration protection. Experience new levels of comfort and get the job done with Volvo.

### I-ECU monitor

The color, seven inch LCD monitor displays machine status information including fuel consumption data and service interval alerts – enabling increased uptime and high productivity. The user-friendly design is easy to read in all light conditions.



### Volvo seat

The fully adjustable seat has been designed to enhance operator comfort during long work shifts. An optional air suspension and heated seat are available for ultimate comfort.



### Adjustable steering column

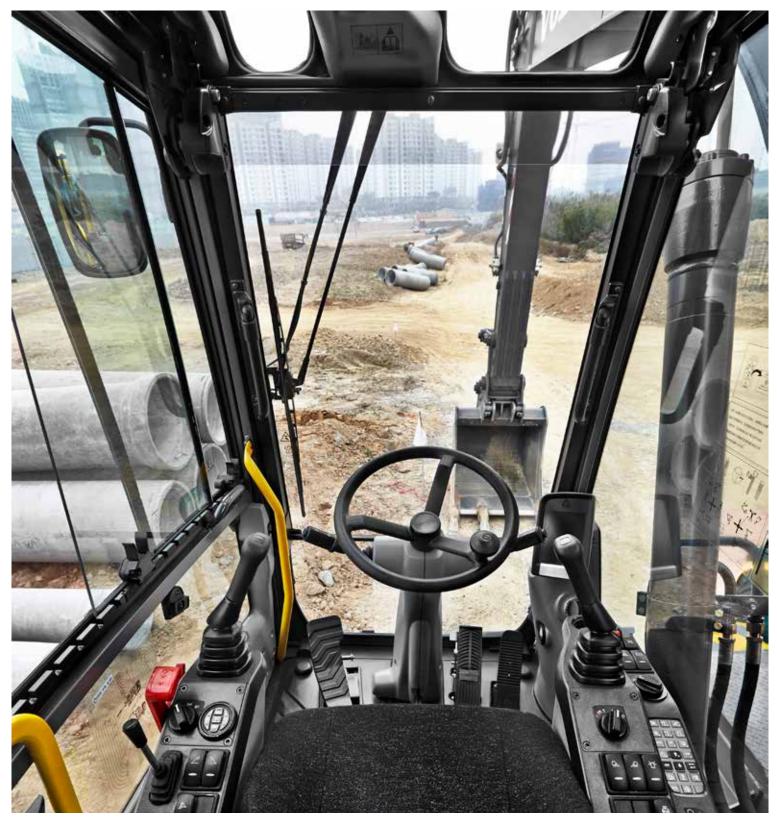
The slim design of the easily adjustable steering column enables easy entry to the cab while also ensuring visibility is not impaired. The angle of the steering column is changed by simply pushing a pedal.



### **Climate control**

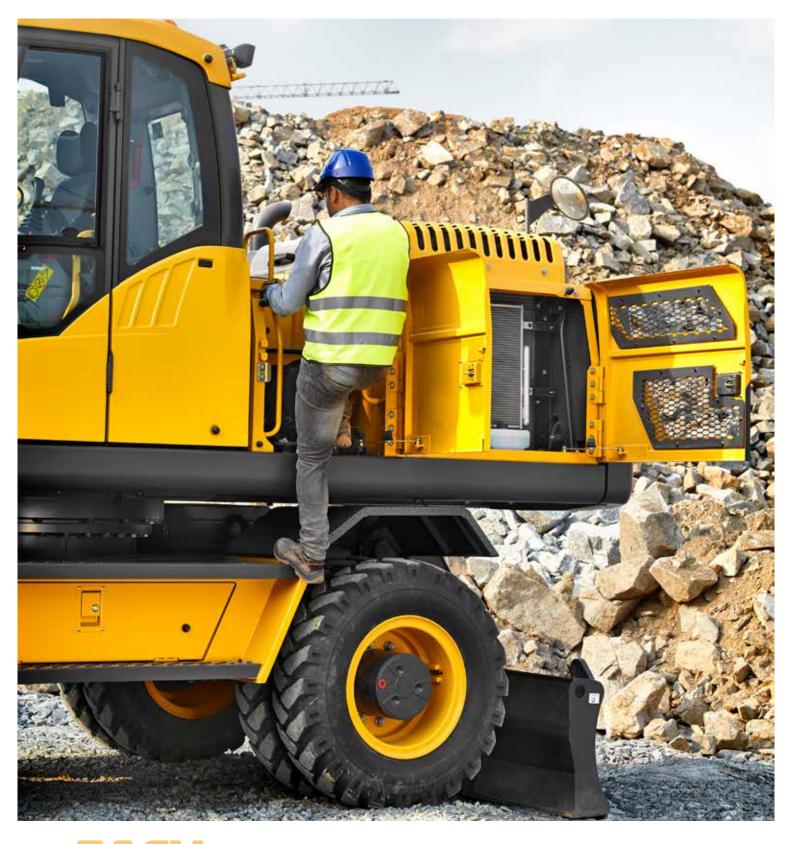
Volvo's powerful, industry-leading climate control system provides superior operator comfort. The air circulation and defrosting system features 14 well-spaced vents which quickly heat or cool the cab.







With slim cab pillars and large expanses of glass, the Volvo ROPS cab offers all-around visibility and ultimate safety both on and offroad. For increased operator comfort, controls and switches are ideally placed while rubber cab mounts improve shock absorption and reduce vibration.



# EASY SERVICE ACCESS

Rear access behind the cab, along with sturdy steps and handrails, provides safe and easy maintenance access to the superstructure. Centralized greasing points permit regular checks to be done faster for maximum machine uptime.

## Access more uptime

Even a Volvo machine requires service and maintenance in order to work as efficiently and productively as possible. But the difference is that Volvo makes maintenance easy – giving you more uptime. With grouped service points and safe and easy access to components, you'll get the most out of each working day.

### Large toolbox

For easy daily maintenance and increased uptime, a spacious toolbox is located between the steps on the left side of the machine.



### Single layer cooling system

The radiator, charged air cooler and hydraulic oil cooler are integrated in a single layer to maximize efficiency, reduce blockages and aid cleaning. The system is easily accessed by opening the side door.



### Service interval display

For easy maintenance and increased machine uptime, four service interval alerts on the monitor inform the operator when maintenance is required.



### **Grouped filters**

Grouped filters are quick and easy to access from ground level for fast servicing.



## The machine that does more

### Electronic flow-dividing control system

The Proportional Pressure Reducing Valve (PPRV) ensures the right amount of flow is delivered to each operation.

### Serviceability

Grouped filters and centralized greasing points permit regular checks to be done faster for maximum machine uptime.

### **ADVANCED HYDRAULICS**

The full electro-hydraulic system and main control valve use intelligent technology to control on-demand flow for high performance and efficiency.

### **Quick couplers**

Volvo quick couplers are designed to work with Volvo attachments, delivering ultimate compatibility and unrivalled performance.



### ATTACHMENT RANGE

Volvo's comprehensive range of attachments have been purpose-built to work in perfect harmony with Volvo machines.

### Dozer blade and outriggers

A robust dozer blade and outriggers optimize machine stability and increase versatility.

### I-ECU monitor

The LCD monitor clearly displays machine status information for easy operation and increased productivity.

### **VOLVO CAB**

All-around visibility and an ergonomic design are at the center of Volvo's operator environment – increasing comfort and ease of operation.

### EASY SERVICE ACCESS

Rear access behind the cab along with sturdy steps and handrails provide safe and easy maintenance access to the superstructure.

### Volvo engine

The Volvo D6 engine delivers the ultimate combination of low fuel consumption and high productivity.

### **Rigid main frame**

The strong structure easily absorbs impacts transferred through the digging equipment.

### **STABLE UNDERCARRIAGE**

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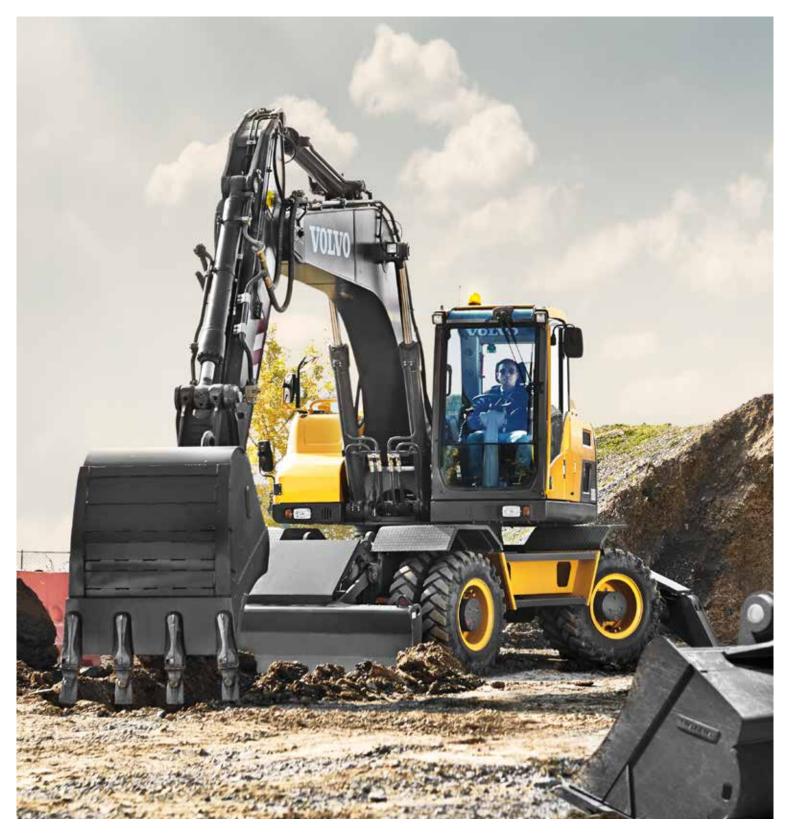
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The well-balanced undercarriage is made from strong steel for maximum durability and stability.

### ECO MODE

EW2050

Volvo's unique ECO mode improves fuel efficiency without any loss of performance in most operating conditions.



# ATTACHMENT Range

Volvo's durable attachments have been purposebuilt to work in perfect harmony with Volvo machines, forming one solid, reliable unit. The comprehensive range includes ditching buckets, hydraulic breakers and general purpose buckets. Experience maximum productivity with the right attachment for your specific requirements.

# Infinite opportunities

Maximize your productivity and profitability with the versatile EW205D and Volvo's comprehensive, durable range of attachments. Increase your versatility, access more applications and effectively perform a variety of tasks – all while experiencing faster cycle times and excellent control. Get the most out of your excavator with Volvo.

### **Quick couplers**

Volvo quick couplers are designed to work with Volvo attachments, delivering ultimate compatibility and unrivalled performance.



### Optional auxiliary hydraulics

Factory fitted breaker and shear piping as well as tilt and rotator piping increase versatility by enabling a wide range of additional attachments to be used.



### Hydraulic breakers

Volvo's durable hydraulic breakers have been designed for ultimate compatibility with Volvo excavators. The range has been built to break the most demanding materials and combines excellent performance with low noise and vibration levels.



### Attachment management system (AMS)

The AMS stores the settings for up to 20 hydraulic attachments. The system allows hydraulic flow adjustments to be accurately and easily set according to the needs of the tool being used.



# Adding value to your

Give can offer you along term partnership, protect your revenue and provide a full range of customer solutions using high quality parts, delivered by passionate people. Volvo is committed to increasing the positive return on your investment and maximising uptime.



### **Complete Solutions**

Volvo has the right solution for you. So why not let us provide all your needs throughout the whole life cycle of your machine? By listening to your requirements, we can reduce your total cost of ownership and increase your revenue.





### **Genuine Volvo Parts**

Our attention to detail is what makes us stand out. This proven concept acts as a solid investment in your machine's future. Parts are extensively tested and approved because every part is vital for uptime and performance. Only by using Genuine Volvo Parts, can you be sure that your machine retains the renowned Volvo quality.





### Service Network

In order to respond to your needs faster, a Volvo expert is on their way to your job site from one of our Volvo facilities. With our extensive infrastructure of technicians, workshops and dealers, Volvo has a comprehensive network to fully support you using local knowledge and global experience.





# CUSTOMER Support Agreements

The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of your service costs.

## Volvo EW205D in detail

#### Engine

The engine, which provide excellent performance, is equipped with six cylinder, vertical, electronic-controlled high pressure fuel injectors, internal EGR, 6 liter in-line waste gate turbo charger, air-to-air intercooler and water cooled diesel engine type.

Engine	Volvo	D6E
Max. power at	r/min	2 000
Net (ISO9249/SAEJ1349)	kW	121.3
	hp	165
Gross (ISO 14396/SAE J1995)	kW	129.5
	hp	176
Max. torque	Nm	730
at engine speed	r/min	1 500
No. of cylinders		6
Displacement	I.	5.7
Bore	mm	98
Stroke	mm	126

#### 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.

Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	120
Alternator	V/Ah	28/80
Start motor	V - kW	24 - 5.5

### Undercarriage

Drive train: One big variable axial-piston motor on the two-step Power Shift gearbox gives power to front and rear axles.

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 axie oscillation lock.		
Oscillating	±°	7
with mudguards	±°	7
Twin wheels	type	10-20 14PR
Tractive force (net)	kN	110
Travel speed, on road	km/h	36
Travel speed, off road	km/h	9
Travel speed, creep	km/h	3.5
Min. turning radius	m	7.14

12

#### Swing system

r/min Max. slew speed

Brake system

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

#### 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 nine different adjustments plus a seat belt for the operator's comfort and safety. Sound Level

Sound level in cab accor	ding to ISO 6396	
LpA	dB(A)	74
External sound level acc 2000/14/EC	ording to ISO 6395 and EU Noise Directive	
LwA	dB(A)	102

#### Hydraulic system

The electro-hydraulic system and MCV (main control valve) use intelligent technology to control on-demand flow for high productivity, high-digging capacity and excellent fuel economy. The summation system, boom, arm and swing priority along with boom, arm and bucket regeneration provides optimum performance. The following important functions and working modes 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

Joading or performing deep excavations. Arm priority: Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging. Swing priority: Gives priority to swing functions for faster simultaneous provided.

operations. Regeneration system: Prevents cavitation and provides flow to other

movements during simultaneous operations for maximum productivity. Parking mode (P): Parking position for optimal safety. Travel mode (T): Engine speed is controlled by travel pedal stroke

and mode selection switch for low fuel consumption and noise. Work equipment are not able to move at this mode for optimal safety. Working mode (W): Full working flow with adjustable engine rpm for normal working and best speed utilisation.

Creeping mode (C): Additional working mode for fixed lower travel speed.

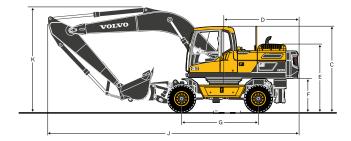
Main pump (type: 2 x Variable displacement	axial piston p	oumps)
Max. flow	l/min	2 x 230
Pilot pump (type: Gear pump)		
Max. flow	l/min	1 x 20
Brake + steering pump (type: Low noise gea	r pump)	
Max. flow	l/min	1 x 41.5
Relief valve setting pressure		
Implement	MPa	32.4/34.3
Travel system	MPa	34
Slew system	MPa	28
Pilot system	MPa	3.9
Hydraulic Cylinders		
Boom		2
Bore x Stroke	ø x mm	120 x 1 235
Arm		1
Bore x Stroke	ø x mm	135 x 1 540
Bucket		1
Bore x Stroke	ø x mm	120 x 1 065
Dozer blade		1
Bore x Stroke	ø x mm	115 x 273
Outrigger		2
Bore x Stroke	ø x mm	150 x 444
Total Machine Weights		
Machine with 5.65m boom, 2.7m arm, 734 kg counterweight.	g / 860 l buck	et, Standard
	kg	20 860

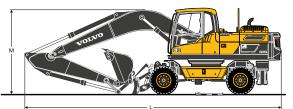
Service Refill		
Fuel tank	1	323
Hydraulic system, total	I	335
Hydraulic tank	I	148
Engine oil	I	32
Engine coolant	I	26
Swing reduction unit	I	7
Transmission	I	2.5
Axle differential:		
Front axle	I	11
Rear axle	I	15
Final drive	1	4 x 2.5

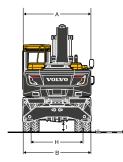
## **Specifications**

### TRAVEL POSITION

### TRANSPORTATION POSITION

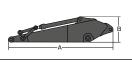






DIMENSIONS			
Description	Unit	Front dozer blade an	d rear outrigger
Boom	m	5.65	5.65
Arm	m	2.7	2.9
A Overall width of upper structure	mm	2 500	2 500
B Overall width	mm	2 500	2 500
C Overall height of cab	mm	3 180	3 180
D Tail swing radius	mm	2 800	2 800
E Overall height of engine hood	mm	2 520	2 520
F Counterweight clearance	mm	1 244	1 244
G Wheel base	mm	2 850	2 850
H Tread width	mm	1 914	1 914
I Min. ground clearance	mm	329	329
J Overall length	mm	9 310	9 315
K Overall height of boom	mm	3 985	3 990
L Overall length	mm	9 510	9 520
M Overall height of boom	mm	3 280	3 490



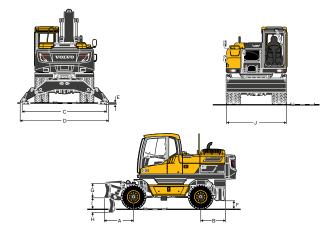


DIN	IENSIONS				
Description		Unit	Boom*	Arı	n**
		m	5.65	2.7	2.9
А	Length	mm	5 870	3 710	3 910
В	Height	mm	1 650	870	860
	Width	mm	670	440	440
	Weight	kg	1 995	1080	1 121

\*Boom: includes cylinder, piping and pin, excludes boom cylinder pin

\*\*Arm: includes cylinder, linkage and pin

## **Specifications**



DIMENSIONS					
Description	Description				
Front Dozer and Rear	Dozer to wheel	А	mm	1 2 3 9	
Outrigger	Outrigger to wheel	В	mm	1 0 3 5	
	Width_digging	С	mm	3 609	
	Width	D	mm	3 774	
Outrigger	Digging depth E		mm	114	
	Clearance F		mm	325	
	Weight		kg	1 150	
	Height	G	mm	630	
	Digging depth	Н	mm	157	
Dozer Blade	Lifting height	I	mm	465	
	Width	J	mm	2 500	
	Weight		kg	690	

### BUCKET SELECTION GUIDE

		Outling			Front dozer blade and rear outrigger						
Bucket type		Bucket type	Caj	Capacity	Cutting width	Weight	Teeth		m, 3 400 kg rweight		m, 3 800 kg rweight
		L	mm	kg	EA	2.7m	2.9m	2.7m	2.9m		
Direct fit buckets	General purpose	860	1 100	748	4	С	С	С	С		
		950	1200	781	5	С	С	С	С		
		1 100	1 350	843	5	В	В	С	В		
Quick coupler buckets (S type)	General purpose	860	1 100	696	4	С	С	С	С		
		950	1200	762	5	С	В	С	С		
		1 100	1350	823	5	В	А	В	В		

Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application. The recommendations are given as a guide only, based on typical

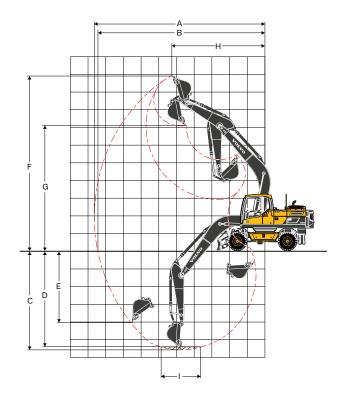
The recommendations are given as a guide only, based on typical operation conditions. Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of

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

	5	Б	A	В	В
Max	imum materia	al density			
А	1.2~1.3 t/m <sup>3</sup>		Coal, Caliche, S	shale	
В	1.4~1.6 t/m³		Wet earth, Clay	, Limestone, Sa	ndstone
С	1.7~1.8 t/m <sup>3</sup>		Granite, Wet sa	nd, Well blasted	l rock
D	>1.9 t/m³		Wet mud, Iron	ore	
X : Not recommended					

### WORKING RANGES WITH DIRECT FIT BUCKET

WORKING RANGES WITH DIRECT FIT BUCKET							
Description					Front dozer blade and rear outrigger		
Во	om			m	5.65	5.65	
Arn	n			m	2.7	2.9	
А	Max. diggi	ing reach		mm	9 685	9 890	
В	Max. diggi	ing reach on grou	nd	mm	9 4 9 0	9 695	
С	Max. diggi	ing depth	Along	mm	5 565	5 765	
			Across	mm	6 0 6 0	6 260	
D	Max.diggii (I=2.44m		Along	mm	5 380	5 590	
			Across	mm	5 875	6 085	
Е	Max. verti	cal wall digging d	gging depth mm 4 125 4 295				
F	Max. cutti	ting height mm 9 895 10 045					
G	Max. dum	ping height		mm	7 085	7 225	
Н	Min. front	swing radius		mm	3 310	3 330	
DIC	GING FOR	RCES WITH DIR	ECT FIT BUC	KET			
Bu	icket radius			mm	1 470	1 470	
		Normal	SAE J1179	kN	122	122	
Br	eakout	Power boost	SAE J1179	kN	130	130	
for	ce (bucket)	Normal	ISO 6015	kN	136	136	
		Power boost	ISO 6015	kN	144	144	
		Normal	SAE J1179	kN	100	96	
Теа	arout force	Power boost	SAEJ1179	kN	106	102	
(ar	(arm) Normal		ISO 6015	kN	102	99	
		Power boost	ISO 6015	kN	109	105	
Ro	tation angle	e, bucket		deg	175	175	



following values.	With he	avy co	outer	weig	ht. U	nit: 1	000	kg. R	each	from	mac	hine	cent	re (u	= su	por	t up/o	d = sı	uppo	rt do	wn)					
5		1.5 m			3.0 m			4.5 m			6.0 m			7.5 m			Ma			ax.						
	Lifting point (m)	Alon	g UC		ross IC	Alon	g UC		oss C	Alon	gUC		oss C	Alon	g UC		ross C	Alon	g UC		oss C	Alon	g UC		ross IC	Max
	(11)	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
Boom: 5.65m	7.5													*4.3	*4.3	4.2	*4.3					*4.2	*4.2	*4.2	*4.2	6.0
Arm: 2.7m	6.0													*4.9	*4.9	4.3	*4.9					*3.9	*3.9	3.1	*3.9	7.1
CWT: 3 400kg	4.5									*6.3	*6.3	*6.3	*6.3	*5.4	*5.4	4.1	*5.4	4.1	*5.0	2.9	3.8	3.8	*3.8	2.6	3.5	7.8
Front Dozer blade	3.0									*7.9	*7.9	5.9	*7.9	5.6	*6.1	3.9	5.2	4.0	*5.2	2.8	3.7	3.5	*3.9	2.4	3.2	8.2
Rear Outrigger	1.5									8.3	*9.3	5.4	7.6	5.4	*6.8	3.6	5.0	3.9	*5.6	2.7	3.6	3.4	*4.2	2.3	3.1	8.2
	0					*6.2	*6.2	*6.2	*6.2	8.0	*9.9	5.2	7.3	5.2	*7.2	3.5	4.8	3.8	*5.7	2.6	3.5	3.5	*4.7	2.4	3.2	8.0
	-1.5					*11.6	*11.6	9.6	*11.6	7.9	*9.7	5.1	7.2	5.1	*7.2	3.4	4.7					3.8	*5.5	2.6	3.5	7.5
	-3.0					*12.1	*12.1	9.8	*12.1	8.0	*8.7	5.2	7.3	5.2	*6.4	3.5	4.8					4.6	*5.6	3.1	4.3	6.5
	-4.5									*6.3	*6.3	5.4	*6.3													5.0
Boom: 5.65m	7.5																					*5.2	*5.2	*5.2	*5.2	4.3
Arm: 2.9m	6.0													*5.0	*5.0	4.3	*5.0					*4.4	*4.4	4.1	*4.4	6.2
CWT: 3 400kg	4.5													*5.1	*5.1	4.3	*5.1					*4.1	*4.1	3.1	4.1	7.3
Front Dozer blade	3.0					*8.6	*8.6	*8.6	*8.6	*6.6	*6.6	6.4	*6.6	*5.7	*5.7	4.1	5.5	4.1	*5.2	2.9	3.8	3.7	*4.1	2.6	3.5	7.9
Rear Outrigger	1.5									*8.4	*8.4	5.9	8.1	5.6	*6.5	3.9	5.2	4.0	*5.6	2.8	3.7	3.4	*4.2	2.3	3.2	8.3
	0									8.3	*9.9	5.4	7.6	5.4	*7.3	3.6	5.0	3.9	*6.0	2.6	3.6	3.3	*4.5	2.2	3.1	8.3
	-1.5					*6.0	*6.0	*6.0	*6.0	8.0	*10.7	5.2	7.3	5.2	*7.8	3.5	4.8	3.8	*6.2	2.6	3.5	3.4	*5.1	2.3	3.1	8.1
	-3.0					*10.6	*10.6	9.6	*10.6	7.9	*10.6	5.1	7.2	5.1	*7.9	3.4	4.7	3.7	*6.0	2.5	3.5	3.7	*5.9	2.5	3.4	7.6
	-4.5					*13.7	*13.7	9.8	*13.7	8.0	*9.7	5.2	7.3	5.2	*7.2	3.5	4.8					4.4	*6.1	3.0	4.1	6.7
Boom: 5.65m	7.5													*4.3	*4.3	*4.3	*4.3					*4.2	*4.2	*4.2	*4.2	6.0
Arm: 2.7m	6.0													*4.9	*4.9	4.5	*4.9					*3.9	*3.9	3.3	*3.9	7.1
CWT: 3 800kg	4.5									*6.3	*6.3	*6.3	*6.3	*5.4	*5.4	4.3	*5.4	4.3	*5.0	3.0	4.0	*3.8	*3.8	2.8	3.7	7.8
Front Dozer blade	3.0									*7.9	*7.9	6.2	*7.9	5.9	*6.1	4.1	5.5	4.2	*5.2	2.9	3.9	3.7	*3.9	2.6	3.4	8.2
Rear Outrigger	1.5									8.7	*9.3	5.7	7.9	5.6	*6.8	3.9	5.2	4.1	*5.6	2.8	3.8	3.5	*4.2	2.5	3.3	8.2
	0					*6.2	*6.2	*6.2	*6.2	8.4	*9.9	5.5	7.7	5.5	*7.2	3.7	5.1	4.0	*5.7	2.7	3.7	3.6	*4.7	2.5	3.4	8.0
	-1.5					*11.6	*11.6	10.2	*11.6	8.4	*9.7	5.4	7.6	5.4	*7.2	3.7	5.0					4.0	*5.5	2.8	3.7	7.5
	-3.0					*12.1	*12.1	10.4	*12.1	8.4	*8.7	5.5	7.7	5.5	*6.4	3.7	5.1					4.9	*5.6	3.3	4.5	6.5
	-4.5									*6.3	*6.3	5.8	*6.3													5.0
Boom: 5.65m	7.5													*4.7	*4.7	4.5	*4.7					*4.0	*4.0	*4.0	*4.0	6.3
Arm: 2.9m	6.0													*4.7	*4.7	4.5	*4.7					*3.7	*3.7	3.1	*3.7	7.4
CWT: 3 800kg	4.5									*6.0	*6.0	*6.0	*6.0	*5.2	*5.2	4.3	*5.2	4.3	*4.8	3.0	4.0	*3.7	*3.7	2.7	3.5	8.0
Front Dozer blade	3.0									*7.7	*7.7	6.2	*7.7	5.9	*5.9	4.1	5.4	4.2	*5.1	2.9	3.9	3.5	*3.7	2.4	3.3	8.4
Rear Outrigger	1.5									8.7	*9.1	5.7	7.9	5.6	*6.6	3.8	5.2	4.0	*5.4	2.8	3.7	3.4	*4.0	2.3	3.2	8.4
	0			_		*6.3	*6.3	*6.3	*6.3	8.4	*9.7	5.4	7.6	5.4	*7.1	3.7	5.0	3.9	*5.6	2.7	3.7	3.5	*4.4	2.4	3.2	8.2
	-1.5	*6.8	*6.8	*6.8	*6.8	*11.1	*11.1	10.0	*11.1	8.3	*9.7	5.4	7.5	5.3	*7.1	3.6	4.9	3.9	*5.5	2.7	3.6	3.8	*5.2	2.6	3.5	7.7
	-3.0					*12.4	*12.4	10.2	*12.4	8.3	*8.8	5.4	7.6	5.4	*6.5	3.6	5.0					4.6	*5.4	3.1	4.2	6.8
	-4.5									*6.7	*6.7	5.6	*6.7									*5.2	*5.2	4,5	*5.2	5.4

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above values are in compliance with ISO standard 10567. 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.

## Equipment

STANDARD EQUIPMENT
Engine
Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler
Air filter with indicator
Air intake heater
Cyclone pre-cleaner Fuel filter and water separator
Alternator, 80 A
Electric / Electronic control system
Contronics - computerized monitoring and diagnostic system
GSM/GPS Caretrack and 3yr-Caretrack subscription
Machine status indication
Automatic idling system
One-touch power boost Safety stop/start function
Adjustable LCD color monitor
Master electrical disconnect switch
Engine restart prevention circuit
Travel alarm
High-capacity halogen lights:
Frame-mounted 2 Boom-mounted 1
Boom-mounted I Batteries, 2 x 12 V / 120 Ah
Start motor, 24 V / 5.5 kW
Rearview & Sideview camera
Superstructure
Service walkway with anti-slip grating
Centralized lubricating point for swing bearing
Tool storage area
Counterweight: 3 400kg Undercover
Undercarriage
Lower frame with Front dozer blade and rear outrigger
2-speed power transmission plus creep
Oscillating front axle ± 7° with mudguards
2-circuit travel brakes
Maintenance-free propeller shafts
Tire 10.00-20-14PR Emergency steering
Hydraulic system
Automatic hydraulic system
Summation system
Boom priority
Arm priority
Swing priority
"ECO" mode fuel saving technology
Boom, arm and bucket regeneration valves Swing anti-rebound valves
Boom and arm holding valves
Multi-stage filtering system
Cylinder cushioning
Cylinder contamination seals
Cab and interior
ROPS (ISO12117-2) certified cab with fixed roof hatch Rubber mounts with spring
Fabric seat without heater
Heater and air-conditioner, automatic
Adjustable operator seat and joystick control console
Adjustable steering wheel
Control joysticks
Flexible antenna
Control lock out lever Cab, all-weather sound suppressed, includes:
Cup holders
Door locks
Tinted and safety glass
Floor mat
Horn
Pull-up type front window
Removable lower windshield
Seat belt
Windshield wiper with intermittent feature

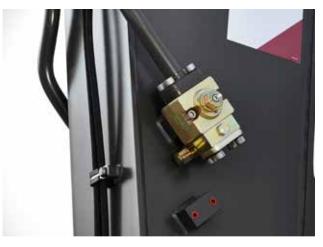
STANDARD EQUIPMENT	
Master key	
Digging equipment	
Boom: 5.65m	
Arm: 2.7m with strip	
Linkage	
Service	
Tool kit, daily maintenance	
, ,	

Engine Block heater: 240 V
Oil bath pre-cleaner
Diesel coolant heater, 5 kW
,
Water separator with heater Extra water separator
•
Auto engine shutdown
Fuel filler pump: 35 lpm with auto stop Electric
Extra work lights:
Boom-mounted 1 Cab-mounted 3 (front 2, rear 1)
Counterweight-mounted 1
Anti-theft system
Flashing beacon_LED
Air compressor
Microphone
Superstructure
Counterweight: 3 800kg
Undercarriage
Mudguard
Hydraulic system
Boom hose rupture valve with overload warning device
Arm hose rupture valve
Hydraulic piping:
Hammer & shear, 1 and 2 pump flow
Slope/Rotator
Quick coupler
Volvo hydraulic quick coupler S1
Hydraulic oil, ISO VG 32, 46, 68
Hydraulic oil, longlife oil 32, 46, 68
Cab and interior
ROPS (ISO12117-2) certified cab with openable roof hatch
Fabric seat with heater
Fabric seat with heater and air suspension
Radio with MP3/USB
Cab-mounted falling object guard (FOG)
Cab-mounted falling object guard (FOG)_Hinge type
Cab-mounted falling object protective structure (FOPS)
Smoker kit (ashtray and lighter)
Safety net for front window
Safety net for lower window only
Front rain shield
Sun shield, roof hatch (steel)
Specific key
Digging equipment
Arm: 2.9m with strip
Service
Tool kit, full scale

Spare parts kit

### SELECTION OF VOLVO OPTIONAL EQUIPMENT

### Breaker/Shear piping (X1)



**Rear-view camera** 

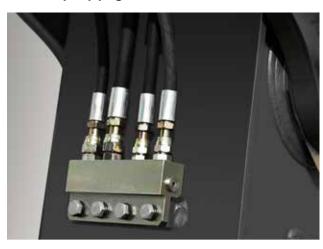
Extra work light



**Emergency steering** 



**Quick-coupler piping** 



Air compressor



Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.



Volvo Construction Equipment