





SMALL SIZE. BIG POWER.

The ECR25D has been designed with mobility and performance in mind. Featuring a range of innovations engineered for effortless transportation, you'll benefit from an ideal transport weight and an integrated bucket transport system. This powerful, short radius excavator boasts strong lifting capabilities as well as breakout and tear out forces that compete with larger machines.

Short radius

With a maximum overhang of 75mm, it ensures safe and easy operation within confined spaces and when loading and unloading the machine. This compact excavator can be used on more jobsites, with a reduced risk of damage, for increased versatility and durability.

Performance

With 3 754 daN combined breakout & tear out force, the ECR25D boasts industry-leading performance for its size. Handle heavy loads effectively thanks to a large lifting capacity and experience superior control and balance.



Volvo hydraulic breakers

Our breakers offer consistent impact frequency and power to ensure productivity on any job site. Optimal power and performance is delivered with every strike of the breaker, maximizing your performance.

Bucket transport

Volvo's simple and effective bucket transportation system enables a ditching bucket to safely carry general purpose buckets. Transportation hooks help to secure attachments against the blade at the end of the working day.



WORK EFFICIENTLY IN COMFORT.



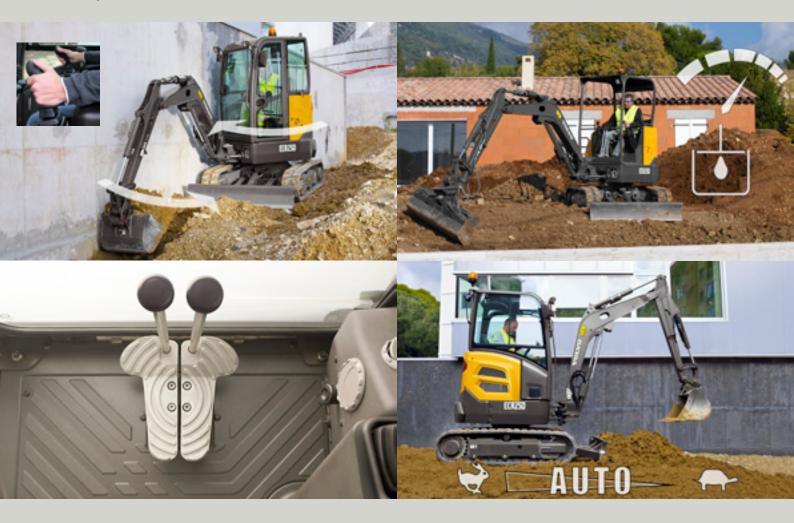
Step inside the spacious ECR25D and experience the benefits of the comfortable and intuitive Volvo operator environment. The modern styling delivers superior all-around visibility from large expanses of glass as well as innovative, ergonomic features including ideally placed controls and heavy a large floor - with no auxiliary pedals - for increased foot space.

Slew and offset movements

Slew and offset movements are controlled simultaneously for easy and fast positioning of the machine. Proportional fingertip control enables precise, smooth and effortless command of the boom offset.

Adjustable flows

Easily adjust the auxiliary hydraulic flows from inside the cab/canopy via the joystick controls and benefit from the correct speed and power for optimal attachment operation. Flows can be independently adjusted in each direction.



Travel pedals

Hydraulically controlled, large travel pedals enable easy and accurate track control. This leaves the operator's hands free to control the joysticks - particularly advantageous when working in confined spaces or loading and unloading the machine.

Automatic travel speed

For optimized travel speed and traction, automatic two speed travel allows the machine to shift down when more effort is needed. To facilitate sensitive operations, just press a switch and enforce high torque mode, you will benefit from the fine travel control.

INVEST IN UPTIME.

Taking care of your excavator shouldn't be complicated - and with a range of built-in service features Volvo makes regular maintenance easy. With innovative technology including the Volvo patented hydraulic oil filter and grouped service points designed to sustain your uptime, we'll help you decrease your total cost of ownership. Get more from your investment with Volvo.

Auto-idle

Engine speed is reduced to idle when the controls are inactive for more than five seconds or when the left-hand console is raised - reducing fuel consumption and noise. The engine instantly returns to the pre-selected speed when the operator touches any control.

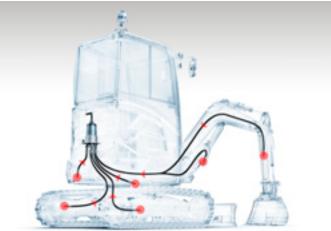
Greasing interval

Grease points are easily accessible from one side of the machine. The greasing interval is 50 hours - therefore there is no need to re-grease during the week. Longer greasing intervals increase uptime, lower operating costs and provide longevity for all pivot points.









Flat glass

The flat, toughened glass used on the four sides of the cab ensures that replacements can be fitted simply, quickly and inexpensively if damage occurs.

Patented hydraulic filter

With Volvo's patented multifunctional hydraulic oil filter, filtration occurs when the tank is filled or topped up and before the oil returns back via the drain lines. The transparent bowl enables easy oil level checks and permits early detection of contamination. Preventative maintenance is carried out timely before damage occurs.



THE VOLVO EXPERIENCE.



Ergonomic, spacious and safe Volvo cab/canopy feature all-around visibility, intuitive controls and built-in comfort.

Auto-idle

Engine speed is reduced to idle when the controls are inactive for more than five seconds - reducing fuel consumption and noise.

Volvo engine

Powerful Volvo Tier 4 diesel engine built with proven, advanced technology for high performance and low fuel consumption.

Service access

Daily service points are grouped under the engine hood and are easily accessible for straightforward maintenance.

CareTrack

Volvo's telematics system remotely guides machine owners towards high uptime by tracking operating hours, location and providing service reminders.

Transport configuration

Inexpensively transport the highly mobile ECR25D with up to three buckets and a hydraulic breaker on a small trailer.

Automatic travel speed

Automatic two speed travel allows the operator to continually drive the machine at high speed. Speed is automatically reduced when traction is needed.



Customer Solutions

Volvo provides the right solutions throughout the entire life cycle of your machine to lower total cost of ownership.



Hydraulic pump

Variable displacement piston pump adapts the hydraulic power on demand - providing reduced fuel consumption and high performance.

Adjustable flows

Adjust the auxiliary hydraulic flows from inside the cab/canopy via the joystick controls for optimal attachment operation.

Greasing interval

The greasing interval is 50 hours - therefore there is no need to re-grease between jobs.

Attachments

Volvo offers a wide range of attachments. Quick couplers, buckets, hydraulic breakers and other implements are available from factory or loose. Contact your local Volvo dealer and benefit from leading customer support.

Slew and offset movements

Slew and offset movements are controlled simultaneously for easy and fast positioning of the machine.

Tie-down points

Quick and safe machine transportation is enabled by four, easily accessible, tie-down points.

ADDING VALUE TO YOUR BUSINESS.

Being a Volvo customer means having a complete set of services at your fingertips. Volvo can offer you a long-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.



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.



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 the 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.



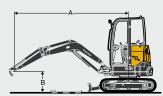
Complete Solutions

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.

VOLVO ECR25D IN DETAILS.

Engine		
Engine Tier4	Volvo	D1.1A
Rated speed	r/s / r/min	40 / 2 400
Maximum Gross power, ISO 14396/SAE J1995	kW / hp	15.6 / 20.9
Max torque at	Nm / r/min	72.2 / 1 600
No, of cylinders		3
Displacement	I	1.123
Bore	mm	78
Stroke	mm	78.4
Compression ratio		24
Electrical system		
Rated voltage	V	12
Batteries	V	1 x 12
Battery capacity	Ah	64
Alternator	V / Ah	12 / 40
Hydraulic system		
Maximum system flow	I/min	67
Maximum flow for accessories	I/min	45
Maximum flow for 2nd accessory circuit (option)	I/min	23
Maximum operating pressure	MPa/bar	25 / 250
Digging performances		
Standard bucket width (blade, W/O side cutter)	mm	500
Standard bucket mass	kg	59
Standard bucket rated capacity	m ³	0.074
Bucket rotation	deg	205
Bucket breakout force	daN	2 026
Short arm (1050mm) tearout force	daN	1 728
Long arm (1350mm) tearout force	daN	1 464
Swing system		
Max, slew speed	r/min	9.4
Max, slew torque	daN.m	485
Undercarriage		
Bottom/top rollers per side		3/1
Track tension		by grease piston
Blade (width x height)	mm	1 550 x 322

Drive		
Max, drawbar pull	daN	1 984
Max. travel speed (low / high)	km/h	2.5 / 4.5
Gradeability	0	30
Service refill capacities		
Fuel tank	1	28
Hydraulic system, total	1	33
Hydraulic tank	1	15
Engine oil	1	5.1
Engine coolant	1	4
Travel reduction unit	1	0.6
Sound Level		
Interior sound level according to ISO 6396 (LpA)	dB(A)	78
External sound level according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 +A1:2009 (LwA)	dB(A)	93
Weight and ground pressure		
Operating weight according to ISO 6016 (according to most usual configuration and including 75kg operator)	kg	2490
Ground pressure cab	kg/cm² (kPa)	0.31 (30.5)
Ground pressure canopy	kg/cm ² (kPa)	0.30 (29.5)
Transport weight (Heated cab, 250mm rubber tracks, short arm, 500mm direct-fit bucket, full fuel tank)	kg	2 415
With canopy	kg	-90
With extra counterweight	kg	+100
With long arm and additional counterweight	kg	+112
With 300mm rubber tracks	kg	+78



Lifting capacity ECR25D

These capacities are given for a machine equipped with a cabin, 250mm rubber tracks and without a bucket or quick-coupler.

The above values are in compliance with ISO standard 10567. They do not exceed 75% of the tipping load or 87% of the hydraulic limit with the machine on firm level ground. Loads market with an asterisk (*) are limited by machine's hydraulic lifting capacity rather than tipping load.

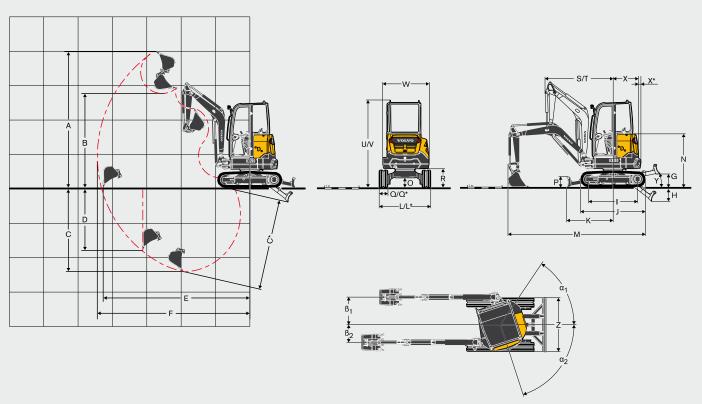
Caution: In accordance with standard EN 474-5, the machine must be equipped to carry out handling operations.

It is the operator's obligation to know and follow the applicable national and local safety regulations.

		Lifting point radius (A)						
	Lifting point height (B)	2.0r	n C	3.0m	1 (" -	Max. re	ach	Max.
	m	kg	kg	kg	kg	kg	kg	m
Arm: 1 050mm + Dozer blade up	3	-	-	440	420	427	408	3 048
	2	-	-	433	414	313	300	3 667
	1	-	-	409	390	282	270	3 858
	0	718	673	393	374	294	281	3 706
	-1	728	683	396	377	372	355	3 144
	3	-	-	-	-	-	-	-
Arm: 1 350mm	2	-	-	470	448	297	284	3 971
+ Additional counterweight + Dozer blade up	1	816	765	443	421	272	259	4 142
	0	768	719	421	400	281	268	4 002
	-1	771	721	417	396	339	323	3 502
	3	-	-	566*	420	577*	408	3 048
A 1 0E0	2	-	-	599*	414	601*	300	3 667
Arm: 1 050mm Dozer blade down	1	-	-	795*	390	642*	270	3 858
	0	1 602*	673	933*	374	699*	281	3 706
	-1	1 543*	683	849*	377	771*	355	3 144
Arm: 1 350mm + Additional counterweight + Dozer blade down	3	-	-	-	-	-	-	-
	2	-	-	500*	448	532*	284	3 971
	1	1 334*	765	715*	421	571*	259	4 142
	0	1 608*	719	897*	400	623*	268	4 002
	-1	1 659*	721	902*	396	692*	323	3 502

*hydraulic limit

SPECIFICATIONS.



Description		Unit	Arm 1050 mm	Arm 1350 mm
A. Maximum cutting height		mm	4 010	4 183
Maximum dumping height		mm	2 784	2 957
C. Digging depth		mm	2 461	2 761
C*. Maximum digging depth		mm	2 672	2 965
D. Maximum vertical wall digging dep	oth	mm	1 832	2 119
. Maximum digging reach at ground	level	mm	4 313	4 602
Maximum digging reach		mm	4 484	4 768
Highest position dozer blade		mm	40	1
Lowest position dozer blade		mm	42	2
Tumbler length		mm	1 4	40
Track length		mm	1 9	06
. Dozer blade, maximum reach at g	ound level	mm	1 3	64
. Overall width with 250mm shoe		mm	1 5	00
*. Overall width with 300mm shoe		mm	1 5	50
I. Overall length		mm	3 924	4 045
. Overall height of engine hood		mm	1 5	64
Minimum ground clearance		mm	29	0
Dozer blade height		mm	31	7
Shoe width		mm	25	0
🖈. Shoe width		mm	25	0
d. Ground clearance to superstructu	re	mm	86	8
. Front slew radius		mm	20	02
Front slew radius with maximum o	ffset	mm	1 5	55
. Overall height (canopy)		mm	25	05
Overall height (cab)		mm	25	37
V. Overall width of superstructure		mm	1 3	40
. Tail slew radius		mm	750	825
* Additional counterweight overhan		mm	75	(incl.)
. Angle of approach		deg	3	
Dozer blade width		mm	1 5	50
¹ Maximum swinging angle to the ri	ght	deg	5	3
² Maximum boom offset to the left		mm	49	6
Maximum swinging angle to the le	ft	deg	7:	2
Maximum boom offset to the right		mm	78	4

EQUIPMENT.

STANDARD EQUIPMENT

Engine

Low emission, water-cooled, Volvo 3-cylinder diesel engine, meeting EPA Tier 4 environmental regulations

Starter motor protected against ignition when engine is already runing

Dry-type single element air filter

Water separator

Translucent fuel filter

Electric/Electronic control system

Maintenance free battery

IP67 protected electrical system and high quality connectors

Removable breaker switch

Two working lights on cab version

Working light on the canopy frame

12V power socket in cab / canopy

Hydraulic system

Variable displacement, load-sensing piston pump

Closed centre flow-sharing main control valve

Boom cylinder cushioning at end stroke (up)

Patented filtering and filling element

Large tiltable oil cooler

Double-acting hydraulic circuit for accessories up to arm end

Hammer / shear valve

Plastic tank with drain plug

Swing system

Radial piston hydraulic motor with direct engagement on the ball internal crown wheel (no reduction gears)

Integrated shockless valve

Automatic multi-disc slew brake

Centralized and remote lubrication of crown wheel & ball bearing

Drivetrain

Axial piston hydraulic motors equipped with an epicyclic reduction gears

Automatic two speed travel

Inner flange bottom rollers lubricated for life

Grease tensionning wheel lubricated for life

Undercarriage and dozer blade

"X" shape, box welded fabricated frame with sloping side members

4 Integrated tie-down points

2 Integrated lifting points

Sturdy removeable protecting covers for track motors and slew system

400HB weld-on edge on dozer blade

Digging Equipment

Monobloc box weldded fabricated boom with integrated lifting eye

Boom cylinder protection

Monobloc box weldded arms with casted ends

Long-life steel bushings

Hardened, pre-lubricated and corrosion resistant pins

50H hours greasing intervals

Canopy

FOPS level 1 (Falling Objects Protective Structure)

TOPS (Tip-Over Protective Structure)

ROPS (Roll-Over Protective Structure)

Cushionned operator station

Toolbox with Integrated storage for operator's manual and lockeable door

Large and roomy uncluttered floor

Left hand-rail access

Seat-belt with warning indicator

Right rear-view mirror

Cab

FOPS level 1 (Falling Objects Protective Structure)

TOPS (Tip-Over Protective Structure)

ROPS (Roll-Over Protective Structure)

OPG1 (Operator Protective Guard)

Cushionned operator station

Large door access

Large and roomy uncluttered floor

Flat toughened glass

Gas-strutt assisted front window opening

Front windscreen wiper and washer nozzle

Right hand side sliding window

Heating systems with in-cab adjustment of temperature and air flow level

Multiple adjustable air vents

Filtered air inlet

Provision for a radio (antena and electric wiring already fitted)

Cab inside light

Toolbox with integrated storage for operator's manual and lockeable door

Seat-belt with warning indicator

Right rear-view mirror

Machine controls

Proportional finger tip control for boom offset

Proportional finger tip control for auxiliary circuit with flow adjustment

Breaker toggle switch on right joystick

Automatic locking device for pilot controls and travel levers when the left console is raised

Engine starting safety device : the left console must be raised to operate the starter

Pressure accumulator to lower the equipment on the ground if the engine is switched off

Two speed travel switch on the dozer blade lever

Large travel pedals

Instrumentation and monitoring

Permanent digital hour meter

Warning lights for hydraulic filter and air filter restriction

Water temperature and fuel level gauges

Several warning lights, coupled to an audible signal, in the event of malfunction (overheating, drop in oil pressure, low battery voltage...)

Official approval

Machine conforming to European directive 2006/42/EC

Noise emissions in the environment conforming to directive 2000/14/EC

Hand Arm Vibrations - Whole Body Vibrations compliant with directive 2002/44/EC Electromagnetic compatibility (EMC)conforming to European directive 2004/108/EC and its amendments

Object handling device conforming to EN 474-1 and EN 474-5 standards

FOPS 1 conforming to ISO 3449 standard

ROPS conforming to ISO 3471-1 and / SAE J1040 standards

TOPS conforming to ISO 12117 and EN 13531 standards

OPG 1 conforming to ISO 10262 standard (when equipped)

ECR25D CONFIGURATIONS

ECR25D CONFIGURATIONS		
= Standard	i i	9
= Option = Not available	Comfor	okiiloo
Operator environment	J	-
Canopy	0	
Heated cab	0	
Vinyl seat with mechanical suspension, extended-back seat and 2"		
retractable seat belt Vinyl seat with mechanical suspension, extended-back seat and 3"	0	(
retractable seat belt Fabric seat with mechanical suspension, extended- back seat and 2"	0	(
retractable seat belt Fabric seat with mechanical suspension, extended-back seat and 3"	0	(
retractable seat belt ISO / SAE control pattern change + travel alarm	0	
Radio, CD, MP3	0	٠
Anti-theft device	0	•
Machine exterior		
Left rearview mirror	0	•
Protected worklight on the boom	•	•
Rear worklight	0	
Rotating beacon	0	
Rotating beacon + rear worklight	0	
Additional counterweight		
Several level of customisation (RAL specifications) to match with your corporate identity	0	ľ
Digging equipment	۰	
Short arm	0	
Long arm + additional counterweight		
Jndercarriage equipment 250mm rubber tracks	۰	
300mm rubber tracks	0	
Hydraulic equipment		
Proportional finger tip control for boom offset		
Proportional finger tip control for accessories Maximum flow adjustment for accessories		
Relief valve for auxiliaries		
Hydraulic drain for accessories		
Breaker and clamshell auxiliaries	0	
Second accessory circuit	0	
Kit 2 flat face hydaulic quick couplings	0	
Kit 4 flat face hydaulic quick couplings	0	
Single acting circuit for quick couplers	0	
Double acting circuit for quick couplers	0	
Boom & arm safety lifting valves with overload indicator	0	
Safety valve certification	0	
Mineral hydraulic oil VG46	0	
Bio hydraulic oil VG46 (PANOLIN®)	0	
Mineral hydraulic oil VG68	0	
Mineral hydraulic oil VG32	0	
Bio hydraulic oil VG32 (PANOLIN®)	0	
Engine		
Dual stage air filter	0	
Engine Auto idling	0	
Service and maintenance		
Tool kit	0	
Telematics		
CareTrack	0	
Attachments (Contact your Volvo dealer for the complete attachment ca	talogu	e)
Volvo quick coupler mechanical (pin-on)	0	
	0	•
S-type hydraulic quick coupler (S40)	0	•
S-type hydraulic quick coupler (S40) General purpose buckets	Ů	
** *	0	•
General purpose buckets		

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Specific color machine



Anti-theft



Second accessory circuit (X3)



Safety lifting valves





Double acting circuit for quick couplers



Additional counterweight



VOLVO CONSTRUCTION EQUIPMENT



VOLVO

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