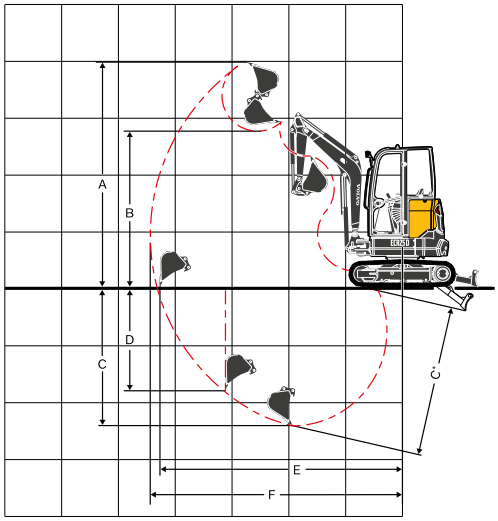
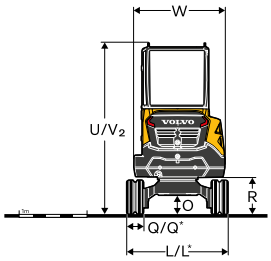
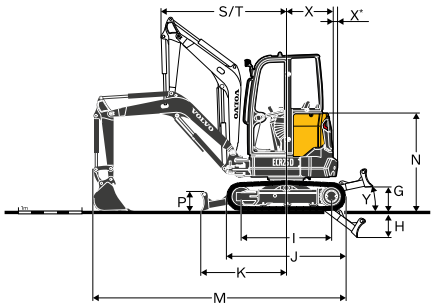
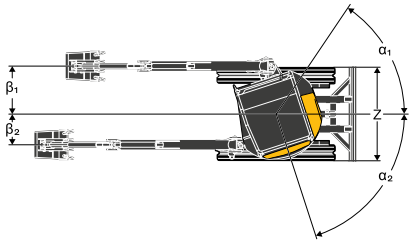
Specifications

Volvo ECR25D Spec Sheet & Lift Charts









DIMENSIONS

Description		Unit	ECR25D	
Arm		**mm**	**1 050**	**1 350**
A	Maximum cutting height	mm	4 010	4 183
B	Maximum dump height	mm	2 784	2 957
B*	Maximum bucket clearance	mm	2 897	3 070
C	Digging depth	mm	2 461	2 761
C*	Maximum digging depth	mm	2 672	2 965
D	Maximum vertical wall digging depth	mm	1 832	2 119
E	Maximum digging reach at ground level	mm	4 313	4 602
F	Maximum digging reach	mm	4 484	4 768
G	Highest position dozer blade	mm	401	
H	Lowest position dozer blade	mm	422	
I	Tumbler length	mm	1 440	
J	Track length	mm	1 906	
K	Dozer blade, maximum reach at ground level	mm	1 365	
L	Overall width with 250mm (9.8”) rubber tracks	mm	1 500	
L1	Overall width with 300mm (11.8”) rubber tracks	mm	1 550	
M	Overall length	mm	4 008	3 876
M*	Transport length	mm	4 595	4 525
N	Overall height of engine hood	mm	1 570	
O	Minimum ground clearance	mm	290	
P	Dozer blade height	mm	312	
Q	Shoe width (rubber)	mm	250	
Q1		mm	300	
R	Ground clearance to superstructure	mm	554	
S	Front slew radius	mm	2 002	
T	Front slew radius with maximum offset	mm	1 555	
U	Overall height cab	mm	2 535	
U*	Overall height canopy	mm	2 505	
W	Overall width of superstructure	mm	1 340	
X	Tail slew radius	mm	750	825
X1	Additional counterweight overhang	mm	75	(incl.)
Y	Angle of approach	°	34	
Z	Dozer blade width	mm	1 550	
α1	Maximum boom swing angle to the left	°	72	
β1	Maximum boom offset to the right	mm	784	
α2	Maximum boom swing angle to the right	°	56	
β2	Maximum boom offset to the left	mm	496	

1: Option

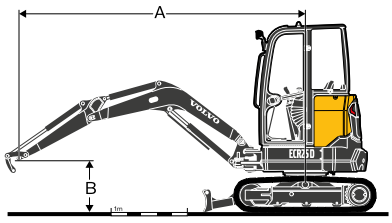
Volvo ECR25D in detail

Engine		
Engine		D1.1A
Max. power at	r/min	2 400
Gross	kW	15.6
	hp	21.2
	According to ISO 9249 / SAE J1995	
Max. torque	Nm	71.4
at engine speed	r/min	1 600
No. of cylinders		3
Displacement	cm^3	1 123
Bore	mm	78
Stroke	mm	78.4
Compression ratio		24
Electrical system		
Voltage	V	12
Battery	V	1 x 12
Battery capacity	Ah	70
Alternator	V/Ah	12/40
Hydraulic system		
Pump type		Variable displacement, load sensing
Maximum system flow	l/min	58
Maximum flow for accessories	l/min	50
Maximum pressure for accessories	MPa	25
Maximum flow for 2nd accessory circuit (option)	l/min	23
Maximum operating pressure	MPa	25
Digging Performances		
Standard bucket width (blade, W/O side cutter)	mm	500
Standard bucket mass	kg	59
Standard bucket rated capacity	l	74
Bucket rotation	°	205
Bucket breakout force (ISO)	daN	2 233
Short arm tearout force (ISO)	daN	1 776
With short arm	mm	1 050
Long arm tearout force (ISO)	daN	1 497
With long arm	mm	1 350
Swing system		
Max, slew speed	r/min	9.4
Max, slew torque	daNm	485

Undercarriage		
Rubber track width	mm	250
Steel track width	mm	300
Bottom/top rollers per side		3 / 1
Track tension		by grease piston
Blade (width x height)	mm	1 550 x 312
Travel System		
Max, drawbar pull	daN	1 984
Max. travel speed low	km/h	2.4
Max. travel speed high	km/h	4.5
Gradeability	°	30
Service Refill		
Fuel tank	l	28
Hydraulic system, total	l	33
Hydraulic tank	l	23
Engine oil	l	5.1
Engine coolant	l	4
Travel reduction unit	l	2 x 0.6
Sound Level		
Interior sound level according to ISO 6396		
L_{pA}	dB	78
External sound level according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 +A1:2009		
L_{WA}	dB	93
Weight and Ground Pressure		
Operating weight according to ISO 6016	kg	2 490
Ground pressure (cab)	kPa	30.5
Ground pressure (canopy)	kPa	29.4
Transport weight	kg	2 412
With heated cab		
With direct-fit bucket		
With rubber tracks	mm	250
With short arm	mm	1 050
With fuel tank capacity	%	100
With canopy	-kg	90
With extra counterweight	+kg	100
With long arm and additional counterweight	+kg	112
With steel tracks	+kg	163
Steel tracks	mm	300
With rubber tracks	+kg	78
Rubber tracks	mm	300

LIFTING CAPACITY ECR25D

These capacities are given for a machine equipped with a cabin, 250 mm rubber tracks and without a bucket or quick-coupler.
The below 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 height (B) m		Lifting point radius (A) 2.0 m: Along undercarriage, dozer blade up	2.0 m: Along undercarriage, dozer blade down	2.0 m: Across undercarriage	3.0 m: Along undercarriage, dozer blade up	3.0 m: Along undercarriage, dozer blade down	3.0 m: Across undercarriage	Max. reach: Along undercarriage, dozer blade up	Max. reach: Along undercarriage, dozer blade down	Max. reach: Across undercarriage	Max. m
Arm: 1 050 mm Counterweight: standard	3	kg	-	-	-	436	566*	418	424	577*	406	3.048
	2	kg	-	-	-	430	599*	412	310	601*	298	3.667
	1	kg	-	-	-	406	795*	389	280	642*	269	3.858
	0	kg	712	1 602*	670	390	933*	373	291	699*	280	3.706
	-1	kg	722	1 543*	680	393	849*	375	369	771*	354	3.144
Arm: 1 050 mm Counterweight: + 100 kg additional	3	kg	-	-	-	474	566*	452	461	577*	439	3.048
	2	kg	-	-	-	467	599*	445	339	601*	324	3.667
	1	kg	-	-	-	443	795*	422	307	642*	293	3.858
	0	kg	778	1 602*	729	427	933*	406	320	699*	305	3.706
	-1	kg	789	1 543*	739	430	849*	409	404	771*	385	3.144
Arm: 1 350 mm Counterweight: + 100 kg additional	2	kg	-	-	-	465	500*	445	294	532*	282	3.971
	1	kg	808	1 334*	760	439	715*	418	269	571*	258	4.142
	0	kg	760	1 608*	713	417	897*	397	278	623*	266	4.002
	-1	kg	763	1 659*	716	413	902*	393	335	692*	320	3.502