

Volvo ECR25D in detail

Engine			
Engine		D11A	
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	cm³	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	1550 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.

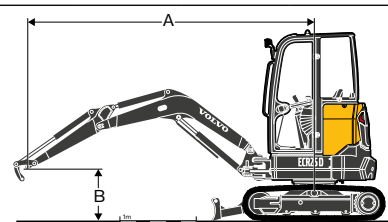
The below values are in compliance with ISO standard 10567.

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

Loads marked with an asterisk (*) are limited by machine's hydraulic lifting capacity rather than tipping load.

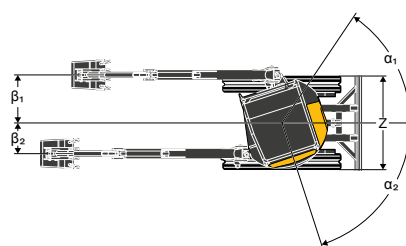
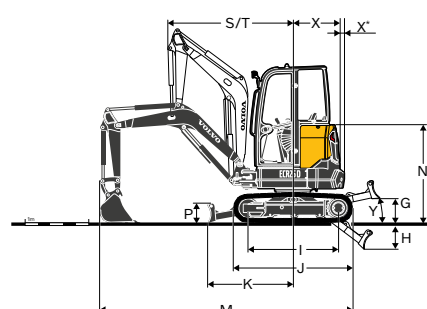
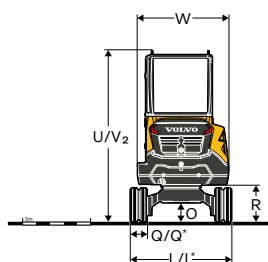
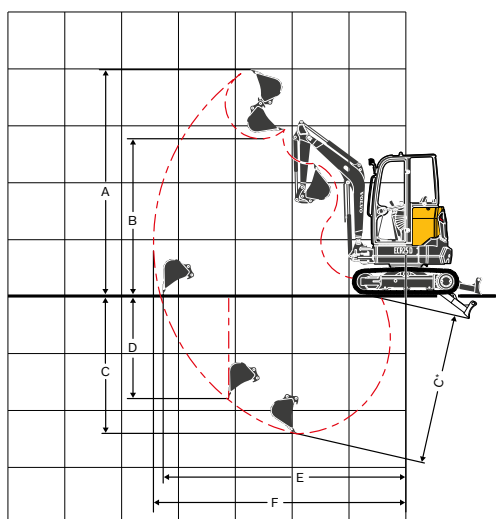
Caution: In accordance with standard EN 474-5, the machine must be equipped to carry out handling operations.

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			3.0 m			Max. reach			Max. m
				Along undercarriage, dozer blade up	Along undercarriage, dozer blade down	Across undercarriage	Along undercarriage, dozer blade up	Along undercarriage, dozer blade down	Across undercarriage	Along undercarriage, dozer blade up	Along undercarriage, dozer blade down	Across undercarriage	
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	291	699*	280	3.706
	-1	kg	722	1 543*	680	393	849*	375	369	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	320	699*	305	3.706
	-1	kg	789	1 543*	739	430	849*	409	404	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	269	571*	258	4.142
	0	kg	760	1 608*	713	417	897*	397	278	278	623*	266	4.002
	-1	kg	763	1 659*	716	413	902*	393	335	335	692*	320	3.502

Specifications



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