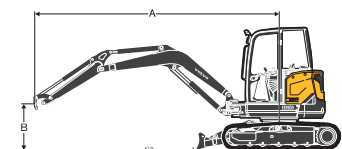


Volvo ECR50D in detail.

Engine		
Engine EU Stage 3A	Volvo	D2.6A
Rated speed	r/s / r/min	36,6 / 2 200
Maximum Gross power, ISO 3046-1	kW / hp	31,2 / 41,8
Max torque at	Nm / r/min	155 / 1 300
Nb of cylinders		4
Displacement	l	2,615
Bore	mm	87
Stroke	mm	110
Compression ratio		19
Electrical system		
Rated voltage	V	12
Battery capacity	Ah	74
Alternator	V / A	12 / 70
Hydraulic system		
Maximum system flow	l/min	103
Maximum flow for accessories	l/min	75
Maximum pressure for accessories	MPa/bar	22 / 220
Maximum flow for 2nd accessory circuit (option)	l/min	23
Maximum operating pressure	MPa/bar	26 / 260
Digging performances		
Standard bucket width (blade, W/O side cutter)	mm	600
Standard bucket mass	kg	113
Standard bucket rated capacity	m ³	0,144
Bucket rotation	deg	200
Bucket ISO breakout force	daN	3 612
Short arm (1400mm) ISO tearout force	daN	2 593
Long arm (1800mm) ISO tearout force	daN	2 177
Swing system		
Max, slew speed	r/min	9,5
Max, slew torque	daN.m	1 400
Undercarriage		
Rubber track width	mm	400
Bottom / Top rollers per side		5 / 1
Track tension		by grease piston
Blade (width x height)	mm	1 920 x 351

Drive		
Max, drawbar pull	daN	3 450
Max, travel speed (low / high)	km/h	3,0 / 4,9
Gradeability	deg	30
Service refill capacities		
Fuel tank	l	64,5
Hydraulic system, total	l	62
Hydraulic tank	l	32
Engine oil	l	10,2
Engine coolant	l	9,8
Travel reduction unit	l	2 X 1
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)	96
Weight and ground pressure		
Operating weight according to ISO 6016 (according to most usual configuration and including 75kg operator)	kg	5 010
Ground pressure	kg/cm ² (kPa)	0,29 (28,4)
Transport weight (Heated cab, 380mm rubber tracks, short arm, 600mm direct-fit bucket, full fuel tank)	kg	4 935
With thumb	kg	+65
With extra counterweight	kg	+170
With long arm and additional counterweight	kg	+195
With 380mm steel tracks	kg	+100



LIFTING CAPACITY ECR50D

These capacities are given for a machine equipped with a cabin, 400mm 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	kg	2.0 m		3.0 m		4.0 m		Max. reach		Max. m
Arm: 1 400mm + Dozer blade up	3	kg					892	770	700	605	4,65
	2	kg			1 332	1 129	866	745	615	531	5,01
	1	kg			1 250	1 052	833	713	589	508	5,09
	0	kg			1 217	1 021	811	692	610	597	4,93
	-1	kg	2 404	1 922	1 217	1 021	808	689	696	597	4,48
	-2	kg	2 449	1 962	1 244	1 046			961	819	3,6
Arm: 1 800mm + Additional counterweight + Dozer blade up	3	kg					877*	839	764	672	5,07
	2	kg			1 318	1 241	1 076	810	689	512	5,39
	1	kg			1 569	1 150	1 041	772	572	589	5,48
	0	kg	968*	968*	1 514	1 098	1 011	744	684	504	5,33
	-1	kg	2 030*	2 030*	1 502	1 087	999	733	760	560	4,92
	-2	kg	2 977	2 067	1 519	1 102	1 012	745	962	710	4,16
Arm: 1 400mm Dozer blade down	3	kg					1 048*	770	1 077*	605	4,65
	2	kg			1 634*	1 129	1 227*	745	1 100*	531	5,01
	1	kg			2 253*	1 052	1 456*	713	1 139*	508	5,09
	0	kg			2 450*	1 021	1 589*	692	1 189*	597	4,93
	-1	kg	2 460*	1 922	2 293*	1 021	1 522*	689	1 238*	597	4,48
	-2	kg	2 841*	1 962	1 727*	1 046			1 241*	819	3,6
Arm: 1 800mm + Additional counterweight + Dozer blade down	3	kg					877*	839	863*	672	5,07
	2	kg			1 318*	1 241	1 076*	810	866*	512	5,39
	1	kg			2 014*	1 150	1 339*	772	908*	589	5,48
	0	kg	968*	968*	2 385*	1 098	1 533*	744	1 014*	504	5,33
	-1	kg	2 030*	2 030*	2 375*	1 087	1 559*	733	1 115*	560	4,92
	-2	kg	3 560*	2 067	2 011*	1 102	1 279*	745	1 161*	710	4,16

*hydraulic limit