

Volvo ECR235E Excavator (with Movax SG-50)

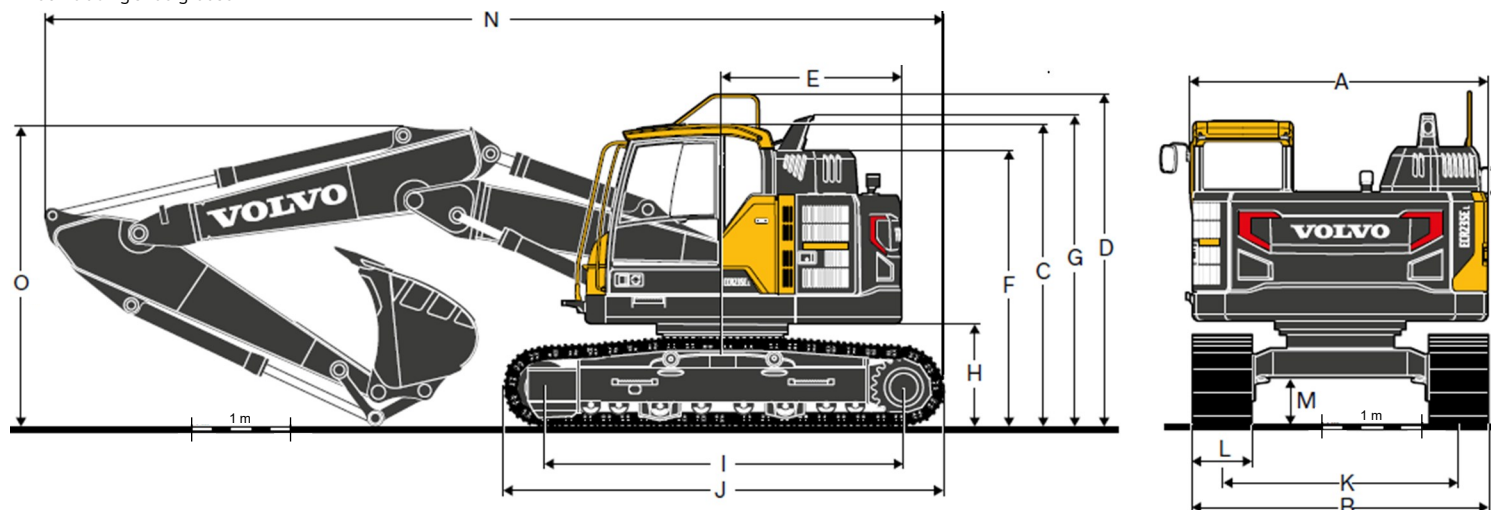
Excavator	Volvo ECR235E
Engine Type	Volvo D6J (Stage V)
Rated Power	128 kW @ 1800 rpm
Maximum Torque	850 Nm @ 1350 rpm
2-Piece Boom Length	5.76 m
Arm Length	2.9 m
Height & Slew Restrictor	Prolec PME System
Ground Bearing Pressure	48 kN/m ²
Transport weight ^a	28.1 tonnes
Operating Weight (approx.) ^b	28 – 30 tonnes

^a Transport weight = excavator + counterweight & boom (excludes attachment)

^b Operating weight = excavator + counterweight & boom + attachment

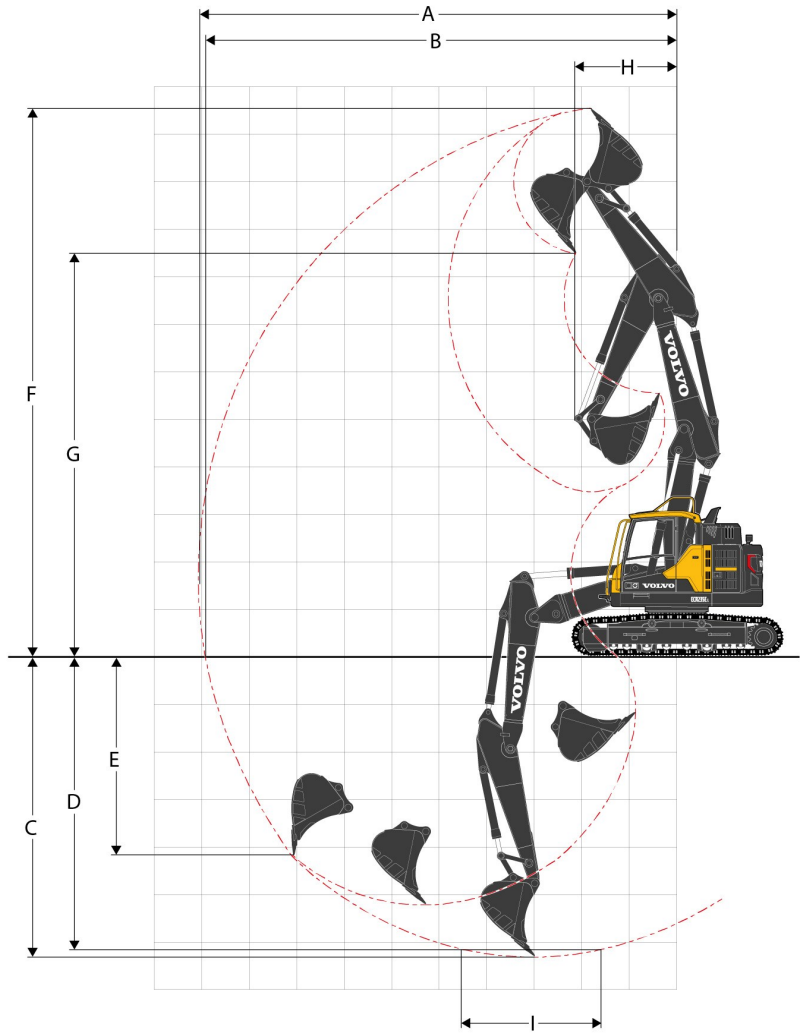
Dimensions	(mm)
(A) Overall width of upper structure	2990 mm
(B) Overall width	3090 mm
(C) Overall height of cab	2965 mm
(D) Overall height to top of guardrail	3365 mm
(E) Tail swing radius	1810 mm
(F) Overall height to top of engine hood	2780 mm
(G) Overall height to top of diffuser	3035 mm
(H) Counterweight clearance*	1025 mm
(I) Tumbler length	3660 mm
(J) Track length	4460 mm
(K) Track gauge	2390 mm
(L) Shoe width (triple grouser + rubber bolt-ons)	700 mm
(M) Minimum ground clearance*	460 mm
(N) Overall length	9465 mm
(O) Overall height of boom	3030 mm

* Not including shoe grouser



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Working Ranges



All dimensions in millimetres	
(A) Max. digging reach	10085
(B) Max. digging reach (on ground)	9930
(C) Max. digging depth	6355
(D) Max. digging depth (l=2.44m level)	6250
(E) Max. vertical wall digging depth	5325
(F) Max. cutting height	11515
(G) Max. dumping height	8460
(H) Min. front swing radius	2160

Quick Coupler

Miller GTX R6 Coupler

SWL: 16T

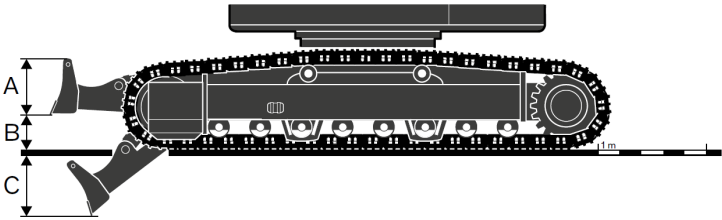
Min. Range: 430 mm

Max. Range: 520 mm

Pin Diameters: Ø80 mm

Weight: 330 kg

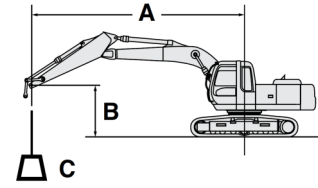
Front Dozer Blade	(mm)
(A) Height	600
Width (700mm shoe, triple grouser)	3090
Weight	790
(B) Lift height	610
(C) Digging depth	480



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Lifting Capacities

- Notes:
1. Rated loads do not exceed 87% of lifting capacity or 75% of tipping load
 2. Machine in 'Fine Mode-F' (Power Boost) for lifting capacities
 3. Lifting capacity at the arm end without bucket
 4. Rated loads marked with asterisk (*) are limited by hydraulic capacity rather than tipping load
 5. Loads are in compliance with SAE J1097 & ISO 10567 Hydraulic Lifting Capacity Standards
 6. Load point of 0.0 m = Ground level



A: Load radius
B: Load point height
C: Lifting capacity

NB: Weight of all accessories (including Quick Hitch) must be subtracted from the lift capacities



Rating over front



Rating side or 360 degrees

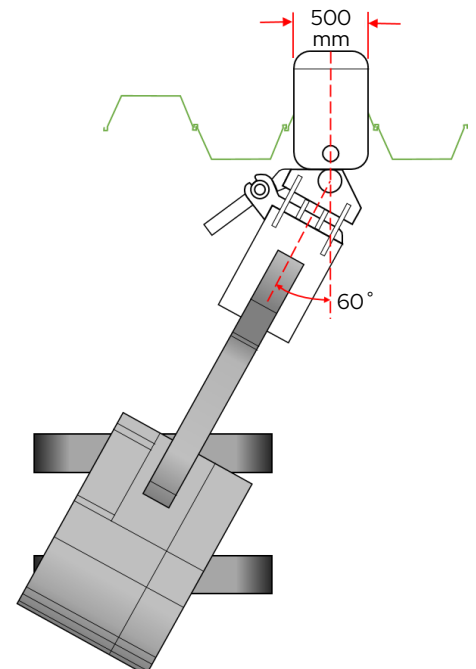
Unit : kg

Conditions	Load point height	Load radius										Maximum reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														metre
Boom: 5.76 m (2-piece) Arm: 2.9 m CWT: 6200kg	9.0 m			*7890	*7890							*5990	*5990	4.4
	7.5 m					*7010	*7010	*5930	5460			*4920	*4920	6.3
	6.0 m			*6060	*6060	*7010	*7010	*7170	5460			*4550	3800	7.4
	4.5 m			*9910	*9910	*9130	8300	*8480	5280	5900	3680	*4440	3230	8.1
	3.0 m					*12360	7670	8190	5000	5770	3570	*4520	2940	8.5
	1.5 m					12520	7110	7890	4740	5640	3440	4640	2830	8.5
	0.0 m					12170	6820	7690	4560	5530	3350	4740	2890	8.4
	-1.5 m			*9410	*9410	*11330	6760	7610	4490	5510	3330	5150	3120	7.9
	-3.0 m					*8660	6860	*6620	4550			*4660	3680	7.1

Conditions	Load point height	Load radius										Maximum reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														metre
Boom: 5.76 m (2-piece) Arm: 2.9 m CWT: 6200kg <i>Dozer blade down</i>	9.0 m			*7890	*7890							*5990	*5990	4.4
	7.5 m					*7010	*7010	*5930	*5930			*4920	*4920	6.3
	6.0 m			*6060	*6060	*7010	*7010	*7170	6160			*4550	4320	7.4
	4.5 m			*9910	*9910	*9130	*9130	*8480	5970	*6780	4190	*4440	3680	8.1
	3.0 m					*12360	8750	*9360	5700	*7660	4070	*4520	3370	8.5
	1.5 m					*13270	8180	*9770	5430	*7710	3950	*4760	3260	8.5
	0.0 m					*12890	7890	*9610	5420	*7400	3850	*5420	3320	8.4
	-1.5 m			*9410	*9410	*11330	7820	*8860	5180	*6370	3830	*5610	3590	7.9
	-3.0 m					*8660	7920	*6620	5230			*4660	4230	7.1

Attachments & Accessories

MOVAX Impact Hammer	DH-15
Weight (with extension, inc. tilt + rotate)	3800 kg
Transport width	1200 mm
Transport depth	1870 mm
Frame width	500 mm
Total height	3850 mm
Blows per minute (max.)	100
Impact energy	1530 kg/m
Drop height (max.)	1200 mm
Operating pressure	150 bar
Weight of ram	1360 kg
Rotation angle	+/- 60°
Tilt angle	+/- 15°



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Attachments & Accessories

MOVAX Vibratory Hammer

SG-50

Weight (excl. adapter)	2723 - 2558 kg
Width	1193 mm
Height	2478 mm
Depth	1180 - 1436 mm
Centrifugal force. Max.	500 kN
Eccentric moment	5.1 kgm
Engine power Min.	125 kW
Frequency	2300 - 3000 rpm
Pressure Setting	350 Bar
Return pressure. Max	5 Bar
Swing angle	+/- 360°
Tilt angle	+/- 30°
Clearance to centre line of pile	800 mm

 **MOVAX**



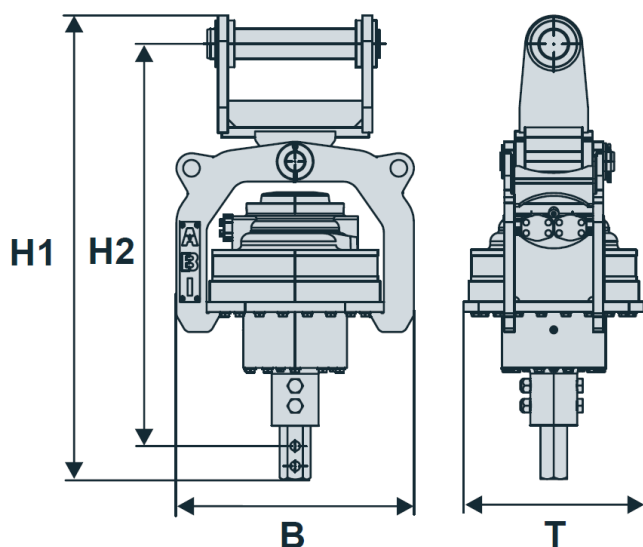
Suitable Pile Types & Dimensions

Sheet pile (width)	400 - 1200 mm
Sheet pile (depth)	265 mm
H-beam minimum size	H180 - H500
Timber pile	Ø 160 - 420 mm
Tubular pile, tubes	Up to 762 mm



Length & Weight

8 m / 2300 kg
12 m / 1600 kg
16 m / 1200 kg



ABI Dangle Drill

BA2200

Height (H1)	1390 mm
Height (H2)	1205 mm
Width (B)	710 mm
Depth (T)	540 mm
Transport Weight	700 kg
Torque	2200 daNm
Revolutions (max.)	50 per min ⁻¹
Static extraction force (max.)	200 kN
Hydraulic flow rate	220 l/min
Hydraulic power at auger drive (max.)	60 kW
Nominal oil pressure	32 MPa
Hexagon connection (SW - Z socket/male)	80 mm