

FSA

Volvo Construction Equipment
Building Tomorrow



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DD110C, DD120C, DD140C

Volvo Double Drum Compactors 11.0-13.8 t / 24,300-30,500 lb 148 hp

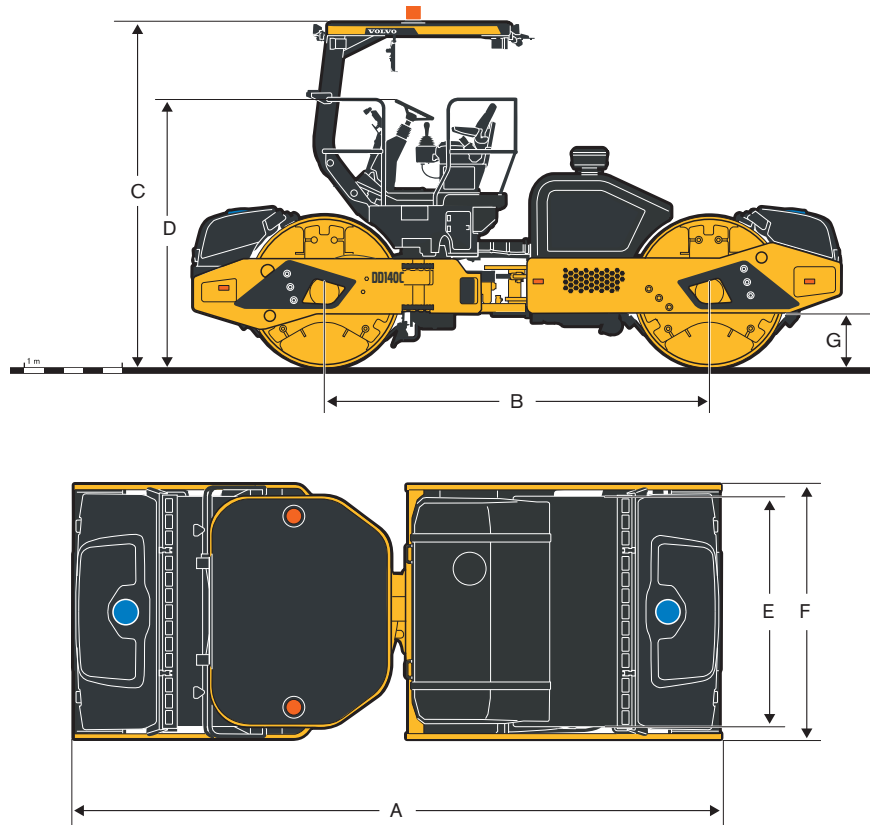


Specifications

Model			DD110C		DD120C		DD140C	
Machine weights			with open ROPS/FOPS canopy					
Operating weight ¹	kg	lb	11,045	24,355	12,565	27,700	13,828	30,486
Weight @ front drum	kg	lb	5,841	12,880	6,684	14,735	7,328	16,156
Weight @ rear drum	kg	lb	5,204	11,475	5,881	12,965	6,500	14,330
Shipping weight ²	kg	lb	10,345	22,811	11,791	25,994	13,043	28,755
Drums								
Width	mm	in	1,700	67	2,000	79	2,135	84
Diameter	mm	in	1,300	51	1,400	55	1,400	55
Shell thickness	mm	in	20	0.79	20	0.79	20	0.79
Finish			Machined surface; chamfered and radiused edges					
Propulsion								
Type		Closed-loop hydrostatic, parallel circuit to both drums						
Drum drive		2-speed axial piston motors with planetary gear drive						
Travel speed	km/h	mph	7.5-12.0	4.7-7.5	7.8-12.2	4.8-7.6	7.8-12.2	4.8-7.6
Engine								
Make / model		Volvo D4, EPA Tier 4 final						
Engine type		4 Cyl, Electronic, Turbo charged CAC, EGR, DPF, SCR						
Rated power @ 2,200 r/min	kW	hp	110	148	110	148	110	148
Electrical		24 V DC, 120 A alternator, Starter 5.5 kW, Battery 775 CCA (SAE)						
Brakes								
Service		Dynamic hydrostatic through propulsion system						
Parking secondary		Spring-applied, hydraulic release on both drum drives						
Water system								
Type		Pressure spray drum wetting system with dual water tanks						
Nozzles		Hand-serviceable spray nozzles, 8 per spray bar Hand-serviceable spray nozzles, 10 per spray bar Hand-serviceable spray nozzles, 12 per spray bar						
Filtration		Strainer at fill necks, primary filter at each pump, fine filter for each nozzle						
Drum wipers		Front and rear styrene wipers for each drum						
Water tank capacity	l	gal	1,098	290	1,280	338	1,280	338
Miscellaneous								
Articulation angle		+ / - 40°		+ / - 40°	+ / - 40°	+ / - 40°	+ / - 35°	+ / - 35°
Oscillation angle		+ / - 10°		+ / - 10°	+ / - 10°	+ / - 10°	+ / - 10°	+ / - 10°
Inside turning radius (to drum edge)	mm	in	4,025	158	3,772	149	4,562	180
Fuel tank capacity	l	gal	162.8	43	199.8	52.8	219.9	58.1
DEF tank capacity	l	gal	20	5.28	20	5.28	20	5.28
Hydraulic oil capacity	l	gal	121.1	32	149.9	39.6	149.9	39.6
Gradeability (theoretical)		33%		33%		29%		

1 incl. 50% fuel, 50% water, full hyd., 75 kg / 165 lb operator

2 incl. 50% fuel, no water, no operator



DIMENSIONS

	DD110C		DD120C		DD140C	
	with open ROPS/FOPS canopy					
	mm	in	mm	in	mm	in
A	5,888	232	5,973	235.2	5,973	235.2
B	3,550	140	3,550	139.8	3,550	139.8
C	3,135	123	3,177	125.1	3,177	125.1
D	2,444	96	2,479	97.6	2,479	97.6
E	1,700	67	2,000	79.0	2,135	84.0
F	1,882	74	2,218	87.3	2,350	92.5
G	483	19	505	19.9	505	19.9

Amplitude Setting	DD110C						DD120C						DD140C					
	Nominal amplitude		Vibration frequency		Eccentric force		Nominal amplitude		Vibration frequency		Eccentric force		Nominal amplitude		Vibration frequency		Eccentric force	
	mm	in	Hz	VPM	kN	lbf	mm	in	Hz	VPM	kN	lbf	mm	in	Hz	VPM	kN	lb
2 amplitudes																		
High Amplitude (Low frequency)	-	-	-	-	-	-	0.89	0.0349	50	3,000	187	42,070	0.88	0.0346	45	2,700	186	41,720
Low Amplitude (High frequency)	-	-	-	-	-	-	0.36	0.014	66.7	4,000	134	30,020	0.35	0.0139	66.7	4,000	163	36,680
8 amplitudes																		
1	0.25	0.010	63.33	3,800	72.2	16,240	0.38	0.0149	56.7	3,400	102.2	22,980	0.33	0.0129	53.3	3,200	97.0	21,810
2	0.29	0.011	63.33	3,800	81.4	18,290	0.40	0.0157	56.7	3,400	108.2	24,330	0.35	0.0137	53.3	3,200	103.4	23,240
3	0.36	0.014	63.33	3,800	102.7	23,090	0.46	0.018	56.7	3,400	123.6	27,780	0.40	0.0159	53.3	3,200	119.4	26,850
4	0.45	0.018	63.33	3,800	127.4	28,640	0.53	0.0208	56.7	3,400	142.8	32,110	0.47	0.0185	53.3	3,200	139.4	31,340
5	0.53	0.021	63.33	3,800	150.1	33,750	0.60	0.0235	56.7	3,400	161.5	36,310	0.54	0.0211	53.3	3,200	158.6	35,660
6	0.59	0.023	63.33	3,800	168.0	37,760	0.65	0.0257	56.7	3,400	176.7	39,720	0.59	0.0231	53.3	3,200	174.1	39,150
7	0.63	0.025	63.33	3,800	179.3	40,300	0.69	0.0271	56.7	3,400	186.5	41,920	0.62	0.0245	53.3	3,200	184.1	41,400
8	0.64	0.025	63.33	3,800	183.1	41,170	0.70	0.0276	56.7	3,400	189.8	42,680	0.63	0.0249	53.3	3,200	187.6	42,170

Equipment

STANDARD EQUIPMENT			
	DD110C	DD120C	DD140C
Engine			
Battery disconnect switch	•	•	•
V-belt protection	•	•	•
Operator environment			
Open ROPS/FOPS canopy	•	•	•
Operator seat, steering wheel and main controls: rotating +/- 90°	•	•	•
Propulsion control lever	•	•	•
Adjustable steering wheel	•	•	•
2 charger sockets 12V	•	•	•
Anti-slip cab floor, easy to clean	•	•	•
Cup holder	•	•	•
Seat switch with timer delay	•	•	•
Three-point seat belt	•	•	•
Seat belt alarm	•	•	•
Vibration and drum system			
Auto vibration	•	•	•
Selectable vibration: front, rear, both	•	•	•
2 frequencies, 2 amplitudes	—	•	•
8 amplitudes	•	—	—
Electrics and electronics			
4 Halogen work lights in frame (2 on each bumper)	•	•	•
Permanent wetting system water level display	•	•	•
Permanent fuel level display	•	•	•
Information display:	•	•	•
- Fluid temperatures	•	•	•
- Engine speed	•	•	•
- Vehicle speed	•	•	•
Impact meter	•	•	•
Emergency stop button	•	•	•
Water system			
Two spray bars per drum	•	•	•

OPTIONAL EQUIPMENT			
	DD110C	DD120C	DD140C
Vibration and drum system			
8 amplitudes	—	•	•
Electrics and electronics			
4 LED frame lights	•	•	•
4 LED frame lights and 4 LED canopy lights	•	•	•
Drum Edge, Surface, and Step Lights	•	•	•
Light ready kit	•	•	•
4 frame Halogen lights	•	•	•
Rotating beacon	•	•	•
Back up alarm	•	•	•
Compact Assist	•	•	•
Compact Assist with Density Direct	•	•	•
CareTrack	•	•	•
Caretrack Anti-theft	•	•	•
Asphalt temperature gauge kit	•	•	•
Structure			
Special paintwork	•	•	•
Biodegradable hydraulic oil	•	•	•
Other			
Cocoa Mats	•	•	•
Auto-idle shutdown	•	•	•
Fuel Strainer	•	•	•
Maintenance Package	—	•	•
Metric Tool Kit	•	•	•
Fire Extinguisher mounting bracket	•	•	•



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