



Volvo Construction Equipment

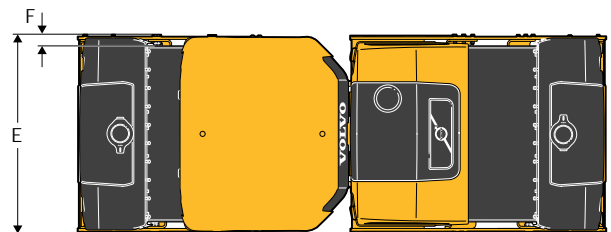
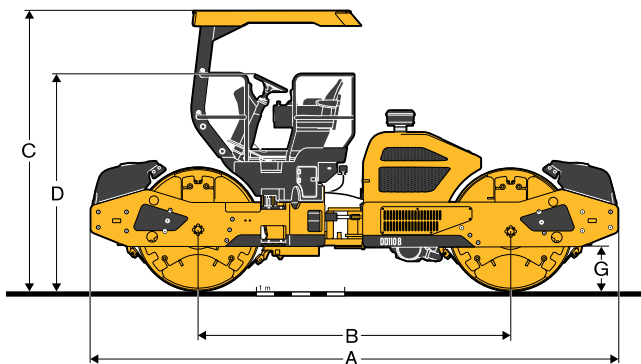
DD110B, DD120B, DD140B

Volvo Double Drum Compactors 11-14 t 131.5-148 hp



Specifications

Model	DD110B								
	2 amplitudes				8 amplitudes		HFA		
Machine Weights (w/ ROPS / FOPS)									
Operating Weight (CECE)	kg	lb	11 250	24,807	11 250	24,807	11 250	24,807	
Weight @ Front Drum	kg	lb	5 906	13,024	5 906	13,024	5 906	13,024	
Weight @ Rear Drum	kg	lb	5 344	11,783	5 344	11,783	5 344	11,783	
Shipping Weight	kg	lb	10 537	23,235	10 537	23,235	10 537	23,235	
Drum									
Width	mm	in	1 700	66.9	1 700	66.9	1 700	66.9	
Diameter	mm	in	1 300	51.2	1 300	51.2	1 300	51.2	
Shell Thickness (no minal)	mm	in	20	0.79	20	0.79	20	0.79	
Finish	mm	in	Machined surface; chamfered & radiused edges						
Propulsion									
Type	Closed-loop hydrostatic, parallel circuit to both drums								
Drum Drive	Heavy-duty radial piston LSHT motors; 2-speed rear motor								
Travel Speed	High	km/h	mph	12.8	7.9	13	8.1	13	8.1
	Low	km/h	mph	7.5	4.7	7.6	4.7	7.6	4.7
Engine									
Make / Model	Volvo Deutz D4								
Engine Type	4 Cyl, Electronic, Turbocharged, CAC, U.S. EPA Tier 4 interim								
Rated Power @ Installed Speed	kW	hp	98.1	131.5	98.1	131.5	98.1	131.5	
Electrical	24 volts DC, negative ground; 120 A alternator								
Brakes									
Service	Dynamic hydrostatic through propulsion system								
Parking / Secondary	SAHR on front-drum & rear-drum drive motors								
Water System									
Type	Pressure spray drum wetting system with LDPE water tanks								
Pumps	Diaphragm water pumps, primary and secondary for each drum								
Spray Bars	Primary and secondary spray bars for each drum								
Nozzles	Hand-serviceable fan spray nozzles; 8 per spray bar								
Filtration	Sock strainer each tank; primary water filter each pump, fine filter each nozzle								
Drum Wipers	Front & rear Styrene wipers for each drum								
Water Tank Capacity	l	gal	549	145	549	145	549	145	
Miscellaneous									
Inside Turning Radius (to drum edge)	mm	in	3 889	153.1	3 889	153.1	3 889	153.1	
Articulation Angle (center pivot steering)	+ / - 40°								
Oscillation Angle	+ / - 10°								
Fuel Tank Capacity	l	gal			193			51	
Hydraulic Oil Capacity	l	gal	128	33.8	128	33.8	128	33.8	
Gradeability (theoretical)	31%				31%				



Model	DD120B						DD140B				
	2 amplitudes		8 amplitudes		HFA		2 amplitudes				
Machine Weights (w/ ROPS / FOPS)											
Operating Weight (CECE)	kg	lb	12 702	28,008	12 702	28,008	12 702	28,008	14 104	31,095	
Weight @ Front Drum	kg	lb	6 683	14,737	6 683	14,737	6 683	14,737	6 818	15,034	
Weight @ Rear Drum	kg	lb	6 018	13,271	6 018	13,271	6 018	13,271	7 578	16,710	
Shipping Weight	kg	lb	11 981	26,420	11 981	26,420	11 981	26,420	13 681	30,168	
Drum											
Width	mm	in	2 000	78.7	2 000	78.7	2 000	78.7	2 136	84.1	
Diameter	mm	in	1 400	55.1	1 400	55.1	1 400	55.1	1 400	55.1	
Shell Thickness (nominal)	mm	in	20	0.78	20	0.78	20	0.78	20	0.78	
Finish	Machined surface; chamfered & radiused edges										
Propulsion											
Type	Closed-loop hydrostatic, parallel circuit to both drums										
Drum Drive	Heavy-duty radial piston LSHT motors; 2-speed rear motor										
Travel Speed	High	km/h	mph	11.4	7.1	11.4	7.1	11.4	7.1	11.4	7.1
	Low	km/h	mph	8.6	5.3	8.6	5.3	8.6	5.3	8.6	5.3
Engine											
Make / Model	Volvo Deutz D4										
Engine Type	4 Cyl, Electronic, Turbocharged, CAC, U.S. EPA Tier 4 interim										
Rated Power @ Installed Speed	kW	hp	110.4	148	110.4	148	110.4	148	110.4	148	
Electrical	24 volts DC, negative ground; 120 A alternator										
Brakes											
Service	Dynamic hydrostatic through propulsion system										
Parking / Secondary	SAHR on front-drum & rear-drum drive motors										
Water System											
Type	Pressure spray drum wetting system with LDPE water tanks										
Pumps	Diaphragm water pumps, primary and secondary for each drum										
Spray Bars	Primary and secondary spray bars for each drum										
Nozzles	Hand-serviceable fan spray nozzles 10 per spray bar 12 per spray bar										
Filtration	Sock strainer each tank; primary water filter each pump, fine filter each nozzle										
Drum Wipers	Front & rear Styrene wipers for each drum										
Water Tank Capacity	l	gal	605.6	160	605.6	160	605.6	160	605.6	160	
Miscellaneous											
Inside Turning Radius (to drum edge)	mm	in	3 772	148.5	3 772	148.5	3 772	148.5	4 562	179.6	
Articulation Angle (center pivot steering)	+ / - 40°						+/- 35°				
Oscillation Angle	+ / - 10°						+/- 10°				
Fuel Tank Capacity	l	gal	226		226		60		256	68	
Hydraulic Oil Capacity	l	gal	140	37	140	37	140	37	143.8	38	
Gradeability (theoretical)				35%				35%			30%

DIMENSIONS

			DD110B		DD120B		DD140B	
A Overall Length	mm	in	5 795	228.1	5 995	236.0	5 995	236.0
B Drum Base	mm	in	3 450	135.8	3 550	139.8	3 550	139.8
C Overall Height (top of ROPS / FOPS)	mm	in	3 140	123.6	3 187	125.5	3 200	126.0
D Overall Height (top of steering wheel)	mm	in	2 386	93.9	2 463	97.0	2 470	97.2
E Overall Width	mm	in	1 920	75.6	2 249	88.5	2 375	93.5
F Side Clearance	mm	in	110	4.3	125	4.9	120	4.7
G Curb Clearance	mm	in	460	18.1	510	20.1	510	20.1

Specifications

DD110B																					
2 amplitudes																					
High Frequency - Low amplitude									Low Frequency - High amplitude												
Nominal amplitude	mm	in	0.42						0.0165			0.89						0.035			
Vibration frequency	Hz	vpm	70						4,200			50						3,000			
Eccentric Force	kN	lb	146						32,810			158						35,510			
8 amplitudes																					
Handwheel Setting			1		2		3		4		5		6		7		8				
Nominal amplitude	mm	in	0.25	0.01	0.29	0.0113	0.36	0.0142	0.45	0.0176	0.53	0.0207	0.59	0.0232	0.63	0.0248	0.64	0.0253			
Vibration frequency	Hz	vpm	63.3						3,800												
Eccentric Force	kN	lb	72.4	16,270	81.5	18,320	102.8	23,110	127.4	28,650	150.1	33,750	168.0	37,760	179.3	40,300	183.1	41,170			
8 amplitudes HFA																					
Handwheel Setting			1		2		3		4		5		6		7		8				
Nominal amplitude	mm	in	0.42	0.0165	0.45	0.0179	0.54	0.0212	0.64	0.0253	0.74	0.0292	0.82	0.0323	0.87	0.0343	0.89	0.035			
Vibration frequency	Hz	vpm	70	4,200	67.5	4,050	63.3	3,800	60	3,600	55	3,300	53.3	3,200	50	3,000	50	3,000			
Eccentric Force	kN	lb	145.8	32,810	146.9	33,050	153.7	34,590	164.6	37,040	159.5	35,890	165.9	37,330	154.8	34,820	157.8	35,510			

DD120B																					
2 amplitudes																					
High Frequency - Low amplitude									Low Frequency - High amplitude												
Nominal amplitude	mm	in	0.36						0.014			0.89						0.035			
Vibration frequency	Hz	vpm	70						4,200			50						3,000			
Eccentric Force	kN	lb	147						33,090			187						42,070			
8 amplitudes																					
Handwheel Setting			1		2		3		4		5		6		7		8				
Nominal amplitude	mm	in	0.38	0.0149	0.40	0.0157	0.46	0.018	0.53	0.0208	0.60	0.0235	0.65	0.0257	0.69	0.0271	0.70	0.0276			
Vibration frequency	Hz	vpm	56.6	3,400	56.6	3,400	56.6	3,400	56.6	3,400	56.6	3,400	56.6	3,400	56.6	3,400	56.6	3,400			
Eccentric Force	kN	lb	102.2	22,980	108.2	24,328	123.6	27,780	142.8	32,110	161.5	36,310	176.7	39,720	186.5	41,920	189.8	42,680			
8 amplitudes HFA																					
Handwheel Setting			1		2		3		4		5		6		7		8				
Nominal amplitude	mm	in	0.36	0.014	0.40	0.0157	0.50	0.0197	0.62	0.0244	0.73	0.0287	0.82	0.0321	0.87	0.0342	0.89	0.0349			
Vibration frequency	Hz	vpm	70	4,200	66.7	4,000	60	3,600	56.7	3,400	53.3	3,200	51.7	3,100	50	3,000	50	3,000			
Eccentric Force	kN	lb	147.2	33,090	149.8	33,670	152.2	34,220	167.8	37,720	174.8	39,300	183.3	41,220	183.2	41,190	187.1	42,070			

DD140B																					
2 amplitudes																					
High Frequency - Low amplitude									Low Frequency - High amplitude												
Nominal amplitude	mm	in	0.35						0.014			0.88						0.035			
Vibration frequency	Hz	vpm	66.7						4,000			45						2,700			
Eccentric Force	kN	lb	163						36,680			185						41,720			