VOLVO DOUBLE DRUM COMPACTORS

DD110B, DD120B, DD140B





ULTIMATE VERSATILITY.



and DD140B provide you with different weight and rolling widths for consistent, high density levels and ultimate performance and productivity – ensuring you meet your targets on time.

Volvo offers you a range of compactors so you can choose the machine that best matches your needs. Whether you're compacting on a highway or airport, wide or deep pavements and on Roller Compacted Concrete (RCC), Warm Mix Asphalt (WMA) or any other material – Volvo compactors boast the best compaction in the market place. Whatever your requirements, Volvo has the best compactor for the job.

Two amplitudes

For operational simplicity, high or low amplitude is selected on the control panel allowing the operator to adjust drum force when application or material depth changes. Volvo's dual amplitude and frequency compactors allow the drum energy to be easily altered for improved performance and productivity.



Eight amplitudes

For versatility, eight amplitude settings increase or decrease compaction depth by changing the drum energy. This allows the operator to optimally adjust drum performance and achieve target density over varying conditions – from tender to tough mixes. Smoothness is enhanced through auto-reversing eccentrics.

Eight amplitudes HFA

For ultimate performance and maximum versatility, the Volvo High Frequency and Amplitude (HFA) compactor provides automated features – increasing productivity. The machine features automatic smooth start-up of vibration, eccentric rotation – which matches travel direction – and smart vibration which adjusts the frequency when amplitude is changed.

INTELLIGENT DESIGN.

Volvo compactors are designed for maximum efficiency and simple operation. Smart features including an industry-leading water system deliver straightforward operation and compaction at its best. Benefit from powerful performance and high density levels with Volvo compaction equipment.



Drum performance

High centrifugal force, optimal drum weight and variable amplitude combine to achieve the target material density in fewer passes.



Frame design

Robust box frame design provides the compactor with superior frame strength, allowing for excellent drum support, all built into a low profile design.

Impact spacing meter

The operator can easily monitor drum impact spacing via the console display. This provides a visual reference for rolling speed and allows the operator to make adjustments and ensure the correct spacing needed for consistent smoothness and quality.





For safety, comfort and all-around visibility Volvo has designed a premium ROPS/FOPS protected operator environment. The operator platform is surrounded by guard railings which provide safety when entering and exiting the machine. Adjustable seating enables easy access to the controls for increased productivity and ease of operation.

Rotating console

The operator console can be rotated to five different positions – allowing the seat to be positioned for maximum visibility and comfort. The interface of the drum, with panel edges and joints as well as curbs and guide railings, is visible from the operator seat for safe operation and increased productivity.



Presence switch

If the operator leaves the seat with the engine running and the parking brake not applied the machine will shut down. With the parking brake applied, the operator can safely exit the machine.

Seatbelt alert

Safety is improved by reminding the operator with an audible alarm and visual indicator to buckle the seatbelt during machine operation.

SUPERIOR COMPACTION.

Impact spacing meter

Easy monitoring of impact spacing permits rolling speed adjustments that help maintain pavement smoothness.



Rotating console

Operator console can be rotated to five positions allowing

maximum comfort and visibility.

Vibration control HFA

On the HFA compactor, the automatic vibration system controls the machine's maximum speed in relationship to the machine's frequency - maintaining the correct impact spacing.



Tier 4i engine

Volvo engines provide a 'onestop-shop' approach with support, parts and warranty handled by your local Volvo dealer.

Selectable amplitudes

For two amplitude machines, high or low amplitude is selected on the control panel allowing the operator to adjust the drum force when application or material depth changes.







All-around visibility

Benefit from a 360° view of the entire work zone for

maximum safety and productivity.



Lockable vandal cover protects the console. Lockable engine hood, fuel cap, water fill caps and access doors deter theft and vandalism.



Water system

Industry-leading, automatic drum wetting system provides uniform drum coverage to prevent material pick-up.



Superior drum performance is enabled by robust box frame design. Low machine profile increases visibility.

Eccentric rotation

For eight amplitude machines, this automatic function ensures eccentric rotation in the direction that the machine is travelling for improved smoothness.



For quick and easy access the water tanks can be safely filled from ground level.

YOUR UPTIME IS OUR PRIORITY.



At Volvo we're not just committed to providing you with compaction equipment. Consult with Volvo experts to benefit from years of experience on your compaction and paving projects. We know that on a compacting job, time and quality mean money. And that's why Volvo has a unique, dealer support network to ensure your machine's uptime. Enjoy maintenance made easy and continuous state-of-the-art support with Volvo.



Volvo maintained

Volvo engines are built and maintained by Volvo. Because your compactor is 100% Volvo, you'll benefit

from a 'one-stop-shop' approach – with support, parts and warranty dealt with in one place by your local Volvo dealer.

Road Institute

The Volvo Road Institute has been teaching customers how to operate and service compactors and pavers since its inception in 1965. Operators are educated by experienced instructors on best practice techniques and taught how to recognize and correct problems.

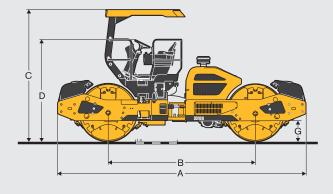


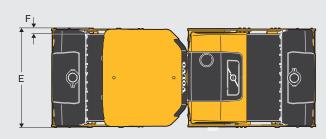
Customer Support Agreement

Volvo Customer Support Agreements (CSA) offer service and maintenance with maximum cost control and minimum downtime. The flexible system caters for a range of needs from total repair and maintenance to an inspection program covering vital parts and functions.

SPECIFICATIONS.

Model				DD110B								
Model				2 amp	olitudes	8 amp	litudes	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 D	rum	kg	lb	5 344	11,784	5 344	11,784	5 344	11,784			
Weight @ Rear Drum		kg	lb	5 497	12,121	5 497	12,121	5 497	12,121			
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 (r	no minal)	mm	in	20	0.79	20	0.79	20	0.79			
Finish		mm	in		Machir	ned surface; chan	fered & radiused	edges				
Propulsion												
Туре					Closed-lo	oop hydrostatic, pa	arallel circuit to bo	th drums				
Drum Drive					Heavy-duty	radial piston LSH	T motors; 2-speed	d rear motor				
Travel Speed	High	km/h	mph	13	8.1	13	8.1	13	8.1			
	Low	km/h	mph	7.6	4.7	7.6	4.7	7.6	4.7			
Engine												
Make / Model						Volvo D	eutz D4					
Engine Type					4 Cyl, Electro	nic, Turbocharge	d, CAC, U.S. EPA 1	Γier 4 interim				
Rated Power @ In	stalled Speed	kW	hp	98.1	131.5	98.1	131.5	98.1	131.5			
Electrical					24 vol	Its DC, negative g	round; 120 A alte	rnator				
Brakes												
Service					Dynan	nic hydrostatic thr	ough propulsion s	ystem				
Parking / Second	ary				SAHR	R on front-drum &	rear-drum drive m	notors				
Water System												
Гуре					Pressure spr	ray drum wetting :	system with LDPE	water tanks				
Pumps					Diaphragm wa	ater pumps, prima	ry and secondary f	for each drum				
Spray Bars					Primar	y and secondary s	pray bars for each	n drum				
Nozzles					Hand-sei	rviceable fan spra	y nozzles; 10 per s	spray bar				
Filtration				So	ck strainer each ta	nk; primary water	filter each pump,	fine filter each no	zzle			
Drum Wipers					Froi	nt & rear Styrene	wipers for each di	rum				
Water Tank Capac	city	I	gal	548.8	145	548.8	145	548.8	145			
Miscellaneous												
nside Turning Ra	dius (to drum edge)	mm	in	3 889	153.1	3 889	153.1	3 889	153.1			
	center pivot steering)					+/-	- 40°					
Oscillation Angle						+/-	- 10°					
Fuel Tank Capacit	ty	- 1	gal	189.3	50	189.3	50	189.3	50			
Hydraulic Oil Capa		- 1	gal	128	33.8	128	33.8	128	33.8			
	•		_									





Model						DD1	20B			DD1	40B		
Model				2 amp	litudes	8 amp	litudes	HI	FA	2 amp	litudes		
Machine Weights (w/ ROPS / FOPS)												
Operating Weight (CECE)	kg	lb	12 702	28,008	12 702	28,008	12 702	28,008	14 396	31,744		
Weight @ Front Dru	m	kg	lb	6 018	13,271	6 018	13,271	6 018	13,271	7 578	16,710		
Weight @ Rear Drur	m	kg	lb	6 683	14,737	6 683	14,737	6 683	14,737	6 818	15,034		
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 (no	ominal)	mm	in	20	0.78	20	0.78	20	0.78	20	0.78		
inish				Machined surface; chamfered & radiused edges									
Propulsion													
Гуре						Closed-loop	hydrostatic, pa	arallel circuit	to both drums	3			
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		
ingine													
Nake / Model							Volvo D	eutz D4					
Ingine Type					4 C)	l, Electronic,	Turbocharged	d, CAC, U.S. E	EPA Tier 4 int	erim			
Rated Power @ Inst	alled Speed	kW	hp	110.4	148	110.4	148	110.4	148	110.4	148		
Electrical						24 volts E	C, negative g	round; 120 A	A alternator				
Brakes													
Service						Dynamic h	nydrostatic thr	ough propuls	ion system				
Parking / Secondar	у					SAHR on	front-drum &	rear-drum dr	rive motors				
Nater System													
Гуре					Pre	ssure spray o	drum wetting s	system with L	DPE water ta	anks			
Pumps					Diaph	ragm water	pumps, prima	ry and secon	dary for each	drum			
Spray Bars						Primary an	d secondary s	pray bars for	each drum				
Nozzles						Hand-service	able fan spra	y nozzles; 10	per spray bai	r			
iltration					Sock straine	r each tank;	primary water	filter each pu	ump, fine filter	r each nozzle			
Drum Wipers						Front &	rear Styrene	wipers for ea	ich drum				
Water Tank Capacit	у	- 1	gal	605.6	160	605.6	160	605.6	160	639.7	169		
Miscellaneous													
nside Turning Radi	us (to drum edge)	mm	in	3 772	148.5	3 772	148.5	3 772	148.5	4 562	179.6		
	enter pivot steering)					+/	- 40°			+/-	35 °		
Oscillation Angle						+/	- 10°			+/-	10°		
Fuel Tank Capacity		- 1	gal	258.5	68.3	258.5	68.3	258.5	68.3	301	79.5		
Hydraulic Oil Capac	ity	- 1	gal	140	37	140	37	140	37	143.8	38		
	etical)			2	5.2	21	5.2	21	5.2	30	1		

DIMENSIONS

DIMILIADIONS								
			DD110B		DD1	20B	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.

								DD11	0B									
2 amplitudes																		
				Hi	gh Fre	quency	- Low	amplitud	de		Low Frequency - High amplitude							
Nominal amplitude	mm	in	0.42					0.01	0.0165				39			0.0	35	
Vibration frequency	Hz	vpm		70				4,200			50			3,000				
Eccentric Force	kN	lb		20	3			45,5	568		215					48,2	268	
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				6	2				3,720							
Eccentric Force	kN	lb	69.3	15,590	78.1	17,560	98.5	22,150	122.1	27,460	143.9	32,350	161	36,190	171.8	38,630	175.5	39,460
							8	amplitud	des HF	A								
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	32,813	146.9	33,048	153.7	34,594	164.6	37,036	159.5	35,889	165.9	37,327	154.8	34,819	157.8	35,510
	DD120B																	

	DD120B																	
2 amplitudes																		
				Hi	gh Fre	quency	- Low	amplitud	le			Lo	w Free	quency -	High	amplitud	le	
Nominal amplitude	mm	in	0.36					0.0	0.014 0.			3.0	89 0.035				35	
Vibration frequency	Hz	vpm	70				4,2	00	50			0			3,0	00		
Eccentric Force	kN	lb		209				47,0	94		249				56,074			
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	51.5	3,090	51.5	3,090	51.5	3,090	51.5	3,090	51.5	3,090	51.5	3,090	51.5	3,090	51.5	3,090
Eccentric Force	kN	lb	84.4	18,980	89.4	20,100	102	22,940	118	26,520	133.4	29,990	145.9	32,810	154	34,630	156.8	35,250
							8	amplitud	les HF	A								
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	234	52,552	256	57,592							

EQUIPMENT.

STANDARD EQUIPMENT

SIANDARD EQUIPMENT	DD110R	DD120B	DD140R
Volvo engine	•	•	•
Engine fan guard	•	•	•
Engine grid heater	•	•	•
Diesel Particulate Filter (DPF)	•	•	•
Fuel/water separator	•	•	•
Air filter restriction	•	•	•
Engine shock mounts	•	•	•
Five-position rotating console	•	•	•
Seat belt alarm	•	•	•
Operator platform isolation	•	•	•
Fully adjustable seat	•	•	•
Anti-slip steps and operator platform	•	•	•
Tilt steering wheel	•	•	•
Control panel cover	•	•	•
Retracting seat belt	•	•	•
High centrifugal force	•	•	•
Automatic eccentric rotation	•	•	•
Smart start	•	•	•
Vibration isolation	•	•	•
Machine finished drums	•	•	•
Pressurized water system with variable flow and triple filtration	•	•	•
Water tank level indicator	•	•	•
Quick removal water nozzles and screens	•	•	•
Automatic tensioning wipers	•	•	•
Service chart with detailed check points	•	•	•
Tow feature	•	•	•
ROPS / FOPS	•	•	•
Impact spacing meter	•	•	•
Selectable auto vibration	•	•	•
Smart vibration	•	•	•
Smart water	•	•	•
Smart propulsion	•	•	•
Power port	•	•	•
On board processor diagnosis	•	•	•
24 volt system	•	•	•

OPTIONAL EQUIPMENT

	DD110B	DD120B	DD140B
2 Amplitude HF Feature	•	•	•
8 Amplitude HF Feature	•	•	
8 Amplitude HFA Feature	•	•	
Drum Wiper - Styrene	•	•	•
Drum Wiper - Urethane	•	•	•
Cocoa Mat Drum Wiper	•	•	•
Back-up Alarm	•	•	•
Infrared Temperature Option	•	•	•
Pre-Cleaner Air filter feature	•	•	•
Fuel Strainer Option	•	•	•
Bio-degradable Oil	•	•	•
Work Lights	•	•	•
HID 1 Light Package	•	•	•
HID 2 Light Package	•	•	•
Strobe Light	•	•	•
Winterization Feature	•	•	•
Maintenance Package	•	•	•
Metric Tool Kit	•	•	•
ROPS Ship Loose	•	•	•
Special Paint	•	•	•

SELECTION OF VOLVO OPTIONAL EQUIPMENT

8 Amplitude



Drum Wiper



Air pre-cleaner



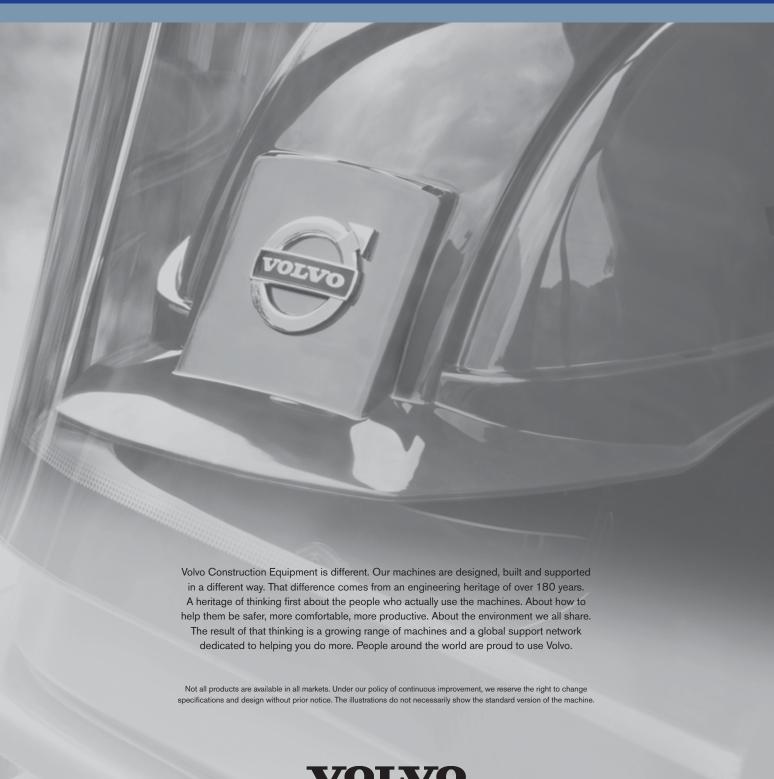
Maintenance Package



HID lights and strobe



VOLVO CONSTRUCTION EQUIPMENT



VOLVO

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