

V O L V O



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

DD110C, DD120C, DD140C

Volvo Construction Equipment



Welcome to our world

Welcome to a world of industry leading machinery. A world where imagination, hard work and technological innovation will lead the way towards developing a future which is cleaner, smarter, and more connected. A world supported by the enduring values of the Volvo Group. A world of stability, sustainability and innovation. A world which we put our customers at the heart of.

Welcome to the world of Volvo Construction Equipment – we think you're going to like it here.

The road to success

Our range of road machinery combines the heritage of the Ingersoll Rand and ABG brands with the engineering excellence of Volvo. The result is a line-up of Volvo pavers and compactors which achieve an unrivalled level of quality, in both paving and compaction applications.

Building on our proud history, we continue to innovate our products to offer customers the best solutions for their operation. Our Compact Assist and Pave Assist products are just two examples of how we are developing intelligent solutions to ensure our machines deliver world-class performance and results long into the future.



Solutions for you

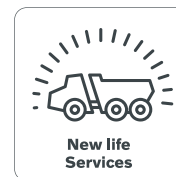
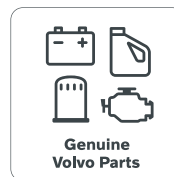
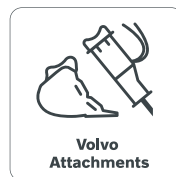
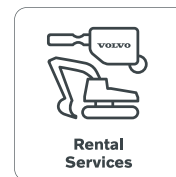
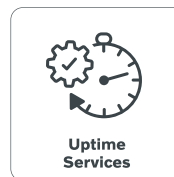
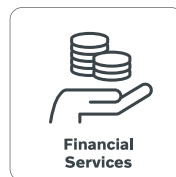
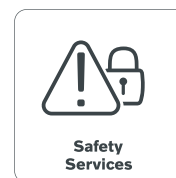
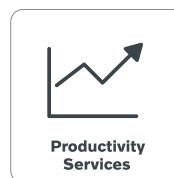
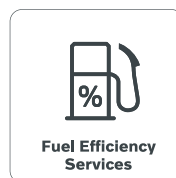
Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

Designed for your business

Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

There when you need us

Whether you're buying new or used, our global network of dealers and technicians offer around-the-clock support, including machine monitoring and world-class parts availability. It's the basis of everything offered by Volvo Services, so you can be confident we've got you covered right from the start.



BUILDING TOMORROW

Perfecting performance

Our next generation of compactors provide you with a smooth, high quality finish for ultimate performance while optimizing fuel efficiency. With the superior drum vibration system and high centrifugal force, the C-Series asphalt compactors achieve more work in fewer passes. Unobstructed visibility, operator comfort and auto-reversing eccentrics enhance productivity, making the compactors ideal for large-scale projects.

More work, fewer passes

Achieve target density with the Volvo C-Series compactors, which combine high centrifugal force and 8-amplitude option*, so you can do more work in fewer passes. Ensure high quality compaction thanks to the advanced Volvo drum vibration system, designed to diminish start up power consumption for optimum performance. Enhance pavement rideability with auto-reversing eccentric rotation. *standard for DD110C



Unobstructed visibility

Maximize safety with the C-Series compactors from Volvo, boasting impressive all-around visibility of the work zone and surroundings. The 180° rotating console and adjustable seat offer a commanding view of the jobsite, as well as unobstructed sightlines of the drum edges for rolling precision combined with full width drum surface monitoring.



Comfortably productive

Take on challenging conditions from the comfort and safety of the ROPS/FOPS platform, packed with productivity-enhancing features to keep the operator fresh, alert and focused. The operator environment offers noise and vibration isolation as well as ample storage and legroom, while easy-to-reach controls optimize productivity.



Drive your costs down

Keep operating costs low with the premium Volvo Tier 4 Final engine, delivering high torque at low rpm for superior performance and high fuel efficiency. The adaptive engine control system delivers optimum power for the task at hand. Reduce fuel consumption further with optional auto-idling and auto-engine shutdown features, optimizing efficiency without compromising power or performance.





BIG PROJECTS, BIG PERFORMANCE

Big projects demand a big performance and the DD110C, DD120C and DD140C drum vibration system delivers the power and efficiency required to achieve optimum compaction results. Rely on the advanced drum control systems to deliver a smooth, high quality finish.

Peerless productivity

The new Volvo C-Series compactors are primed with a range of intelligent features to boost productivity. Unparalleled drum-wetting is achieved with water burst mode and adjustable flow-rate via the control panel for optimal water usage. Rely on Compact Assist and the Impact Spacing Meter to ensure full functional control. Whether you're on the machine or in an office, monitor your machine to secure peerless productivity and high profits.

Productivity on tap

Boost productivity with the unique burst mode which runs water pumps and spray bars for 10 seconds, to coat the drums and prevent material pickup. A new water flow-rate calibration process allows the operator to set the minimum flow according to requirements. Optimize water use with the automatic spraying system, providing variable flow proportional to speed, for consistent drum coverage.



Easy machine monitoring

Maximize machine uptime and reduce repair costs with the CareTrack telematic system. Choose to keep track of your machine yourself or let us take care of it with ActiveCare Direct. Our Volvo Uptime Center will provide 24/7 machine monitoring, supplying weekly reports and notifying you should preventive maintenance action be required.



Roll with the experts

With a rich heritage of engineering excellence, you can count on Volvo Construction Equipment to design durable machines, built to work harder and longer. As road experts, our mission is to keep your machines working at the optimum efficiency and productivity required for the job. We help protect your business and your profits from the ground up.



Compact Assist

Achieve higher quality compaction, with less effort, thanks to Compact Assist. Powered by the 10" Volvo Co-Pilot display, Compact Assist is a collection of functions designed to help operators eliminate under-compaction and over-compaction. Functions are bundled into a number of packages to match the needs of your business.

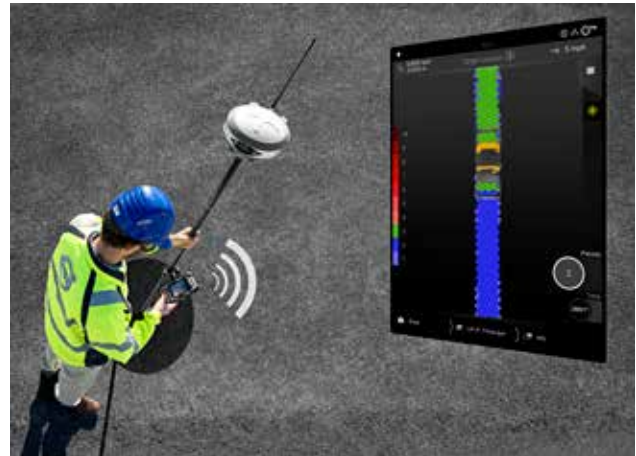
Compact Assist Start

Includes Pass count mapping, Temperature mapping and makes it simple to upgrade to Compact Assist or Compact Assist with Density Direct in the future.



Compact Assist

This package includes the functions from Compact Assist Start, plus high accuracy location, data recording and Real Time Kinematic (RTK) compatibility, offering millimeter-precision location accuracy.



Compact Assist with Density Direct

Includes all functions from Compact Assist package, plus compaction measurement, including Compaction Measurement Value (CMV) mapping and Density Direct mapping.



Easy upgrades

The Volvo compactors will come factory fitted with the necessary wiring needed to easily upgrade your machine to add Intelligent Compaction packages in the field.



Local, state, and federal requirements as well as specific job specifications vary greatly. Please verify that the selected package will meet your IC requirements.

Maximize uptime

Maximize uptime with easy maintenance of the compactors. Volvo's intelligent design includes the industry-leading swing-up hood for easy service access and passive regeneration which reduces downtime. Durable design, robustly tested components, and an extensive dealer and service infrastructure combine to maximize uptime. Manage your operating costs with our Customer Support Agreements.

New mode of regeneration

Passive regeneration occurs in the background as filters are cleaned automatically during normal operation without any input from the operator or effect on performance. A full regeneration is carried out by technicians as part of a routine 500-hour service.



Durable by design

Built to work, the durable compactor is designed to withstand the harshest conditions using high quality components with detailed engineering in mind. The robust structure features protected components and intelligent hose routing to secure machine uptime and profitability to your business. Retain Volvo quality with Genuine Volvo Parts, extensively tested because every part is vital for uptime and performance.



Control service costs

We can help support the profitability of your operation. The range of Customer Support Agreements offers preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase machine uptime. By having a Customer Support Agreement you are in control of your service costs.



Here to support you

Volvo is here to support you whenever you need it. As a complete solutions provider, we listen to your requirements to ensure machine uptime and availability. With extensive dealer coverage and trained technicians, Volvo has a comprehensive network to fully support you using local knowledge and experience.





EASY MAINTENANCE

Quickly and safely perform routine maintenance with the intelligent design of the Volvo C-Series compactors. For easy service, the industry-leading swing-up hood provides complete access to the engine and hydraulic components, and a single key accesses service hatches. To maximize uptime, fuses and relays are grouped together, and the water tank can be filled from ground level.

Unequaled compaction

Big projects, big performance

Ensure high quality compaction with the advanced drum vibration system.

Drive your costs down

Maximize fuel efficiency with adaptive power, auto-idle and auto-engine shutdown without compromising performance.

Target compaction

Ensure you always vibrate at the appropriate rolling speed with Volvo's Impact Spacing Meter, for a smooth, uniform finish.

Roll with the experts

Rely on Volvo's engineering excellence to help protect your business and profits from the ground up.

Compact Assist

Achieve optimum compaction results, with less effort, thanks to the suite of Compact Assist apps – all powered by the 10" Volvo Co-Pilot touchscreen.

More work, fewer passes

Do more work in fewer passes and achieve target density with the high centrifugal force and the 8 amplitude option*.

**standard for DD110C*





Unobstructed visibility

Work efficiently with a 360° view of the drum, spray bars and jobsite, optimizing rolling precision and safety.

Comfortably productive

Boost productivity and comfort with a rotating seat, ergonomic controls, and noise and vibration isolation.

ActiveCare Direct

Maximize uptime and reduce repair costs with ActiveCare Direct, providing 24/7 machine monitoring and weekly reports.

New mode of regeneration

Passive regeneration functions automatically during operation without operator input or effect on performance.

Easy maintenance

Optimize efficiency with the swing-up hood for complete access to the engine and hydraulic components.

Productivity on tap

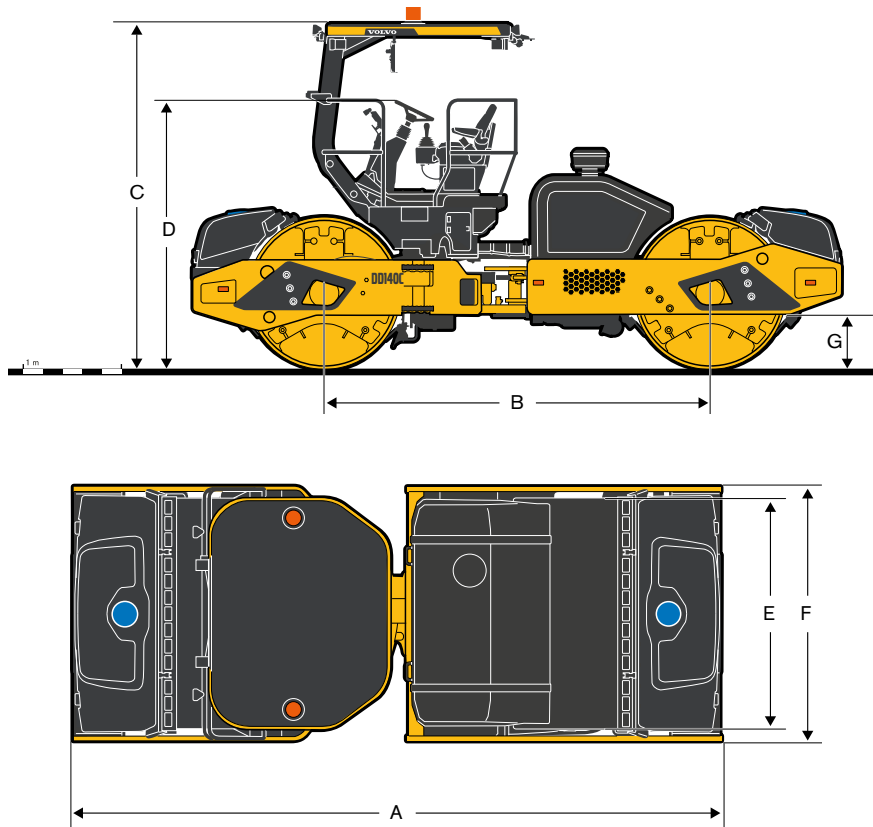
Optimize productivity with automatic water burst mode and flow-rate calibration to prevent material pick-up.

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	2,218	87.3	2,350	92.5
F	1,882	74	2,000	79.0	2,135	84.0
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	•	•	•

SELECTION OF VOLVO OPTIONAL EQUIPMENT

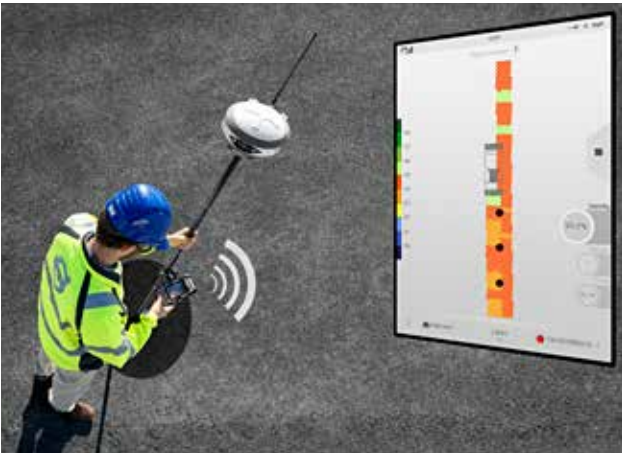
LED Lights (4 or 8) and rotating beacon



Air pre-cleaner



Compact Assist



Eight-amplitude (standard for DD110C)



Auto-idle / Auto-engine shutdown



Quick drain freeze prevention



Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

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