VOLVO



Volvo Double Drum Compactors 12.6 t / 27,700 lb 148 hp

DD120C

Volvo Construction Equipment

DD120C



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.

Unequaled compaction



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.



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

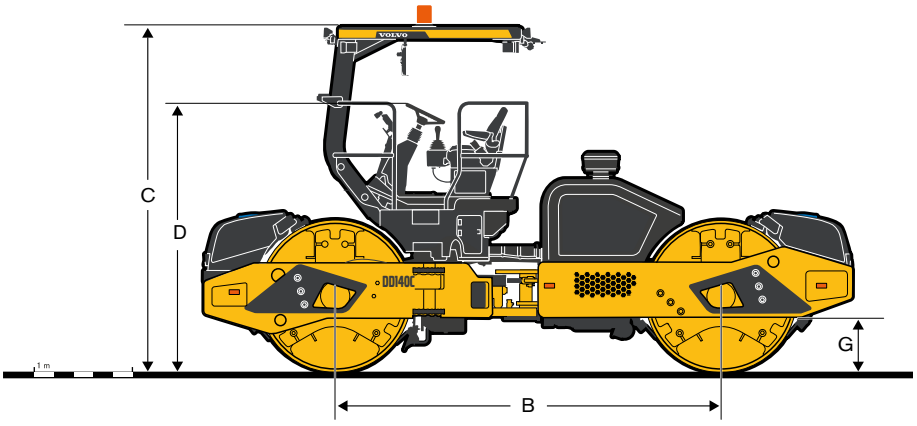
Optimize productivity with automatic water burst mode and flow-rate calibration to prevent material pick-up.

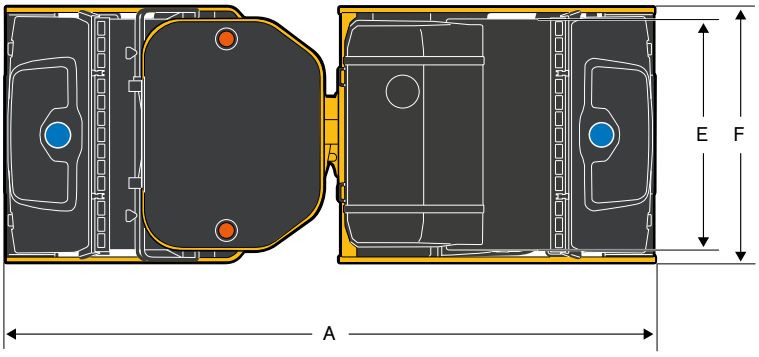
Specifications

Model			DD120C	
Machine weights			**with open ROPS/FOPS canopy**	
Operating weight[1]	kg	lb	12,565	27,700
Weight @ front drum	kg	lb	6,684	14,735
Weight @ rear drum	kg	lb	5,881	12,965
Shipping weight[2]	kg	lb	11,791	25,994
Drums				
Width	mm	in	2,000	79
Diameter	mm	in	1,400	55
Shell thickness	mm	in	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	7.8-12.2	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
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	
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	1,280	338
Miscellaneous				
Articulation angle			+ / - 40°	+ / - 40°
Oscillation angle			+ / - 10°	+ / - 10°
Inside turning radius (to drum edge)	mm	in	3,772	149
Fuel tank capacity	l	gal	199.8	52.8
DEF tank capacity	l	gal	20	5.28
Hydraulic oil capacity	l	gal	149.9	39.6
Gradeability (theoretical)			33%	

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

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





DIMENSIONS

	DD120C with open ROPS/FOPS canopy	
	mm	in
A	5,973	235.2
B	3,550	139.8
C	3,177	125.1
D	2,479	97.6
E	2,218	87.3
F	2,000	79.0
G	505	19.9

Amplitude Setting	DD120C					
	Nominal amplitude		Vibration frequency		Eccentric force	
	mm	in	Hz	VPM	kN	lbf
2 amplitudes						
High Amplitude (Low frequency)	0.89	0.0349	50	3,000	187	42,070
Low Amplitude (High frequency)	0.36	0.014	66.7	4,000	134	30,020
8 amplitudes						
1	0.38	0.0149	56.7	3,400	102.2	22,980
2	0.40	0.0157	56.7	3,400	108.2	24,330
3	0.46	0.018	56.7	3,400	123.6	27,780
4	0.53	0.0208	56.7	3,400	142.8	32,110
5	0.60	0.0235	56.7	3,400	161.5	36,310
6	0.65	0.0257	56.7	3,400	176.7	39,720
7	0.69	0.0271	56.7	3,400	186.5	41,920
8	0.70	0.0276	56.7	3,400	189.8	42,680

Equipment

STANDARD EQUIPMENT
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
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
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

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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