

VOLVO DOUBLE DRUM COMPACTORS

DD25

2,45-2,6 t 25 kW

CMW
Equipment

8668 Olive Blvd. - St. Louis, Missouri 63132
Phone: (314) 993-1336 - Fax: (314) 993-1467



ALL ROUND VISIBILITY FOR THE PERFECT FINISH.



360° visibility

The DD25 provides all round visibility thanks to the prime operator seat position and efficient engine hood design. Whether rolling forwards or in reverse, the operator has a clear view of the drum edges and surroundings for precise compaction and improved job site safety.

Volvo has over 40 years experience in high-frequency compaction. That's why you can rely on the DD25 small double drum compactor to deliver smooth, precise performance every time. With 360° visibility, machined drums and high-frequency, you can work faster on smaller compaction projects to raise your profitability, without compromising on quality.



High performance frequency

Thanks to Volvo's high frequency compaction, the operator can travel faster, while maintaining proper impact spacing for better productivity and a smoother finish. The frequency can be adjusted to cater for different applications.



Intermittent water spray

Adjust the water spray to both drums and save time and water. The operator can precisely adjust the time between water sprays to the drums. This not only prevents asphalt from sticking to the drum but saves water and reduces downtime spent refilling the water supply.



Machined drums for a smooth finish

Achieve the smoothest rolling finish with the DD25 drums. The drums are specially machined so they are perfectly round and each drum edge is chamfered to prevent pavement marking.



Pressurized water system eliminates asphalt pick-up

Front and rear drums are covered by a rust-proof pressurized water system that provides consistent flow to the drum surfaces. Fine filters behind each of the 8 spray nozzles minimizes clogging and ensures proper fan spray coverage to the drum surfaces.

ROLLING IN FEATURES.

Engine

Tier 4 Interim/Stage IIIA engine meets emission standards for better fuel efficiency and reliability.

Water level indicator

The operator can easily monitor the water tank level from the seat.



Intermittent water spray

Operators can precisely adjust the time between water sprays to the drums. Water is saved and downtime spent refilling is reduced.

Urethane drum wipers

Front and rear drums feature wipers made of urethane for longer effective wiping and reduced maintenance.

Automatic vibration system

Automatic vibration system eliminates risk of mistake from the operator by automatically disengaging and engaging vibration, preventing mat damage.



Machined drums for a smooth finish

Machined drums with chamfered edges are perfectly round to produce the perfect mark-free mat.





360° visibility

The DD25 provides all round visibility thanks to the prime operator seat position and efficient engine hood design.

Two selectable frequencies

The operator can easily change frequency from 3300 vpm/55 Hz to 4000 vpm/67 Hz to match performance with production requirements.



High performance frequency

High frequency enables increased compaction speed, while maintaining proper impact spacing for better productivity and a smoother finish.

Quick removal of nozzles

Water nozzles can be removed very quickly without the need for tools increasing uptime and water system performance.

Maintenance-free bearings

Maintenance-free eccentric bearings are lubricated with lithium grease to tolerate higher temperatures and rotating speed.



Pressurized water system eliminates asphalt pick-up

Rust-proof, pressurized water system provides consistent flow to the drum surfaces. Eliminates asphalt pick-up and prevents surface damage.

MAINTAIN YOUR PRODUCTIVITY.

Volvo machines are built to last. That's why all service points on the DD25 are easy to access for fast maintenance and reduced downtime. The lightweight engine hood opens effortlessly for daily inspection. Combined with Volvo's excellent service support, your DD25 will keep you rolling for longer.



Easy-access engine compartment

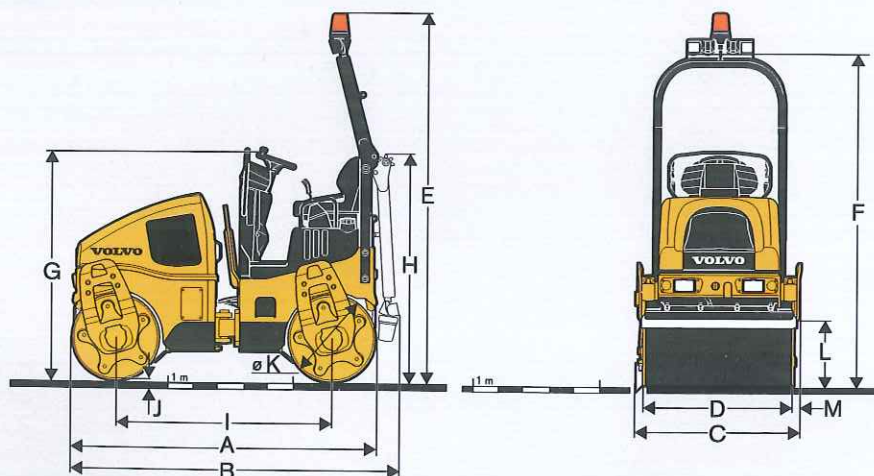
The engine hood can be easily opened for daily maintenance and inspection. The hinged engine hood design is lightweight and tilts forward with the aid of two gas struts giving wide access to the engine and hydraulic components.

Dealer support comes standard

Your local Volvo dealer backs you and your operation with a ready supply of genuine Volvo parts that are perfectly matched to your machine. Your dealer is also ready to help you stay working with expert, trained service and support.

SPECIFICATIONS.

Model			DD25		DD25W	
Machine weights (w/ ROPS)						
Operating weight		kg (lb)	2 450 (5,400)		2 600 (5,725)	
Weight @ front drum		kg (lb)	1 225 (2,700)		1 300 (2,863)	
Weight @ rear drum		kg (lb)	1 225 (2,700)		1 300 (2,863)	
Shipping weight		kg (lb)	2 300 (5,070)		2 450 (5,400)	
Drum						
Width		mm (in)	1 000 (39)		1 200 (47)	
Diameter		mm (in)			700 (28)	
Shell thickness		mm (in)			13 (0.5)	
Finish					Machined	
Vibration						
Frequency		Hz (vpm)	55 / 67 (3,300 / 4,000)		55 / 67 (3,300 / 4,000)	
Nominal amplitude		mm (in)	0,53 (0.02)		0,53 (0.02)	
Centrifugal force		high	37 (8,318)		40 (8,992)	
		low	25 (5,620)		28 (6,295)	
Propulsion						
Type			Closed-loop hydrostatic			
Drum drive			Radial piston			
Travel speed		km/h (mph)	0 - 10 (0 - 6.2)			
Engine						
Make / model			Kubota D1803-M			
Engine type			3-cylinder diesel			
Rated power @ installed speed		kW (hp)	24.8 (33)			
Electrical			12 volts, 70 A alternator			
Brakes						
Service			Hydrostatic			
Parking secondary			Spring-applied, hydraulic release on each drum			
Water system						
Type			Pressurized			
Nozzles			4 per drum			
Filtration			Inlet and nozzle filtration			
Drum wipers			Spring-loaded, self-adjusting urethane wipers			
Water tank capacity		l (gal)	260 (68)			
Miscellaneous						
Articulation angle			+ / - 30°			
Oscillation angle			+ / - 10°			
Inside turning radius (to drum edge)		mm (in)	2 800 (110)		2 700 (106)	
Fuel tank capacity		l (gal)	40 (10.6)			
Hydraulic oil capacity		l (gal)	27 (7.1)			
Gradeability (theoretical)			30%			



Dimensions	DD25		DD25W	
	mm	in	mm	in
A	2 420	95	2 420	95
B	2 540	100	2 540	100
C	1 090	43	1 290	51
D	1 000	39	1 200	47
E	2 955	116.3	2 955	116.3
F	2 650	104.3	2 650	104.3
G	1 870	74	1 870	74
H	2 020	79.5	2 020	79.5
I	1 720	68	1 720	68
J	13	0.5	13	0.5
K	700	28	700	28
L	490	19.3	490	19.3
M	45	2	45	2

VOLVO CONSTRUCTION EQUIPMENT



Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 175 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo.

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VOLVO

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English
USA

VOLVO DOUBLE DRUM COMPACTORS

DD70, DD70HF



MORE CARE. BUILT IN.

CMW

Equipment

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HIGH PERFORMANCE, HIGH VISIBILITY

It's easy to see why the DD70 and DD70HF vibratory asphalt compactors work so well on roadways and other medium-sized paving jobs. Both the standard model and the DD70HF feature unobstructed visibility of the drum edges and work surface, along with the highest rolling productivity in their weight class. These models are easy to operate, offer adjustable vibration on/off speed settings, an ergonomic console, and the most reliable water spray system in the industry. The operating weight of the DD70 compactors also meets most DOT static rolling requirements, so you get the most out of your machines.

Performance Features

- Eight amplitude settings achieve required compaction throughout deep lifts and / or stiffer mix designs
- Eccentric rotation automatically matches direction of travel, improving smoothness
- Five-position rotating operator's station with an adjustable seat provides a smooth ride and comfortable operating environment
- Patented Impact Spacing Meter provides a visual reference for speed control to maintain proper impact spacing, resulting in consistent smoothness
- Two complete, independent water systems include triple water filtration, four water pumps, four spray bars, and variable waterflow
- Exclusive machined drums with chamfered, radiused drum edges minimize drum edge marking and facilitate finish rolling
- High frequency vibration system offers faster rolling speeds for increased production while maintaining proper drum impact spacing

Standard Features

- 5-position rotating operator's module with adjustable console for improved visibility and comfort
- Adjustable vibration on/off speed settings at 0,8, 1,6, 2,4, 3,2 kph (**0.5, 1, 1.5, and 2 mph**) for improved vibration control
- Eccentric rotation automatically adjusts to coincide with direction of travel, improving smoothness
- Exclusive machined drums with chamfered, radiused drum edges to maintain uniform smoothness while turning
- High curb clearance and narrow wall clearance
- High frequency vibration system offers faster rolling speeds for increased production
- Industry-leading eight amplitude selections optimizing performance and versatility
- Patented Impact Meter for consistent drum impact spacing and smoothness
- ROPS / FOPS with integral work lights and operator seat belt
- Superior drum spray system for maximum productivity
 - Infinitely variable waterflow control to conserve water
 - Independent primary and secondary spray systems on each drum
- Unobstructed visibility of drum ends and work surface



SPECIFICATIONS

Model		DD70	DD70HF
Machine Weight			
Operating Weight	kg (lb)	6 803 (15,000)	6 755 (14,895)
Static Weight @ Front Drum	kg (lb)	3 311 (7,300)	3 360 (7,410)
Static Weight @ Rear Drum	kg (lb)	3 492 (7,700)	3 395 (7,485)
Shipping Weight	kg (lb)	6 314 (13,920)	6 639 (14,640)
Dimensions			
Overall Length	mm (in)	4 470 (176)	4 470 (176)
Overall Width	mm (in)	1 626 (64)	1 626 (64)
Overall Height (top of steering wheel)	mm (in)	2 200 (86.6)	2 200 (86.6)
Overall Height (top of ROPS / FOPS)	mm (in)	2 832 (111.5)	2 832 (111.5)
Drum Base	mm (in)	2 972 (117)	2 972 (117)
Curb Clearance	mm (in)	559 (22)	559 (22)
Inside Turning Radius (to drum edge)	mm (in)	3 582 (141)	3 582 (141)
Drums			
Width	mm (in)	1 448 (57)	1 448 (57)
Diameter	mm (in)	1 046 (41.2)	1 046 (41.2)
Shell Thickness (nominal)	mm (in)	20 (0.8)	20 (0.8)
Finish		Machined surface; chamfered & radiused edges	
Vibration			
Frequency	Hz (vpm)	55 (3,300)	66,7 (4,000)
Amplitude	mm (in)	0,27 - 0,54 (0.011 - 0.021)	0,16 - 0,43 (0.006 - 0.017)
Centrifugal Force Range	kN (lb)	40 - 80 (8,940 - 17,970)	35 - 94 (7,820 - 21,080)
Amplitude Settings		8	8
Propulsion			
Type		Closed-loop hydrostatic, parallel circuit to both drums	
Drum Drive		Heavy-duty radial piston LSHT motors	
Travel Speed	km/h (mph)	0 - 10,7 (0 - 6.6)	0 - 10,7 (0 - 6.6)
Engine			
Make / Model		Cummins 4B NA, Tier 2	
Engine Type		Naturally aspirated 4-cylinder	
Rated Power @ 2,500 rpm	kW (hp)	60 (80)	60 (80)
Electrical		12 V DC, negative ground; 95 A alternator	
Battery		1 absorbed electrolytic, 800 CCA	
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 & secondary for each drum	
Spray Bars		Primary & secondary spray bars for each drum	
Nozzles		Hand-serviceable fan spray nozzles; 5 per spray bar	
Filtration		Basket strainer each tank, water filter each pump, fine filter each nozzle	
Drum Wipers		Rubber wiper for each drum	
Water Tank Capacity	L (gal)	776 (205)	776 (205)
Miscellaneous			
Articulation Angle (center pivot steering)		+ / - 40°	+ / - 40°
Oscillation Angle		+ / - 10°	+ / - 10°
Fuel Capacity	L (gal)	140 (37)	140 (37)
Hydraulic Oil Capacity	L (gal)	64 (17)	64 (17)
Gradeability (theoretical)		40%	40%

Product improvement is a continuing goal at Volvo. Designs and specifications are subject to change without notice or obligation.

Additional Options

- Cocoa mats
- Edge compactor, cutter
- Gauge package
- High intensity discharge lighting
- Inside drum wiper bars
- Offset drum
- Strobe light
- Mat temperature sensor



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VOLVO

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CMP

VOLVO PNEUMATIC TIRE COMPACTOR

PT125R



MORE CARE. BUILT IN.

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Equipment

8668 Olive Blvd. - St. Louis, Missouri 63132
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THE COMPACTOR FOR YOUR KNEADING REQUIREMENTS

The Volvo PT125R is a nine-wheel pneumatic tire compactor typically utilized on hot mix asphalt. The four front tires overlap with the five rear tires, providing complete material coverage for consistent texture and appearance. Uniform compaction, even on irregular surfaces, is achieved using tire oscillation to maintain full tire contact pressure.

Performance Features

- Back-up alarm
- Fold-down ROPS for transport
- High wheel-loading capability with 14-ply tires
- Horn
- Hour meter
- Hydrostatic propulsion system
- Indicator lights for battery discharge, low engine oil pressure, high engine coolant temperature, and secondary brake engagement
- Pressurized water system with individual tire cocoa mats
- ROPS and seat belt

Selected Options

- Engine air precleaner
- Four-way flashers and turn signals
- Gauges for fuel level, voltmeter, hydraulic oil temperature, engine coolant temperature, engine oil pressure, air filter restriction
- ROPS / FOPS
- Rotating beacon light
- Speedometer
- Tire scrapers
- Vandal cover for console and engine
- Work lights

Tires

The PT125R comes standard with four front and five rear 190,5 mm x 381 mm **(7.5" x 15")**, 14-ply tires. The front tire pairs each oscillate + / - 3°.

Water System

The PT125R comes standard with a 37,9 L **(100 gal)** pressurized water system utilizing an electric diaphragm pump. Each tire has one spray nozzle with a 100 mesh filter in addition to the primary 80 mesh filter and tank inlet strainer.



SPECIFICATIONS

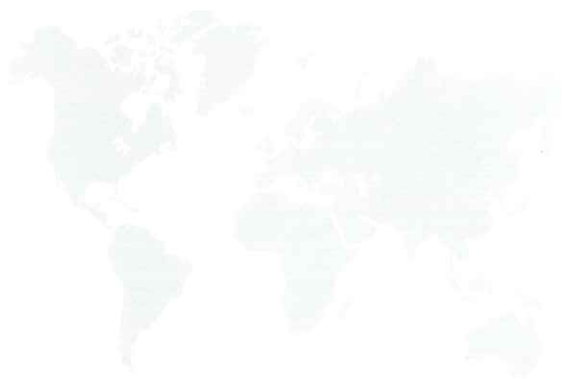
Model		PT125R
Machine Weights		
Shipping Weight	kg (lb)	3 841 (8,469)
Operating Weight	kg (lb) Unballasted	4 125 (9,096)
	With water ballast	7 579 (16,712)
	With wet sand ballast	11 041 (24,346)
	With concentrate ballast	12 424 (27,396)
Machine Dimensions		
Length	mm (in)	3 892 (153.2)
Width	mm (in)	1 980 (78)
Height	mm (in) Top of steering wheel	2 185 (86)
	Top of ROPS	3 225 (127)
	Top of ROPS / FOPS	2 912 (115)
Wheelbase	mm (in)	2 921 (114.6)
Curb Clearance	mm (in)	330 (13.0)
Inside Turning Radius	mm (in)	3 848 (151.5)
Compaction		
Rolling Width	mm (in)	1 727 (68)
Tire Overlap	mm (in)	12 (0.5)
Wheel Load Per Tire (avg)	kg (lb) Unballasted	458 (1,011)
	With water ballast	1 857 (842)
	With wet sand ballast	1 227 (2,705)
	With concentrate ballast	1 380 (3,044)
Ballast Compartment	m³ (cu ft)	3,5 (122)
Propulsion		
System Type		Hydrostatic drive
Drive		Direct at 4 rear wheels
Travel Speed	km/h (mph) High	25 (15.5)
	Low	12,5 (7.8)
Engine		
Make & Model		Cummins B 3.3T-85
Electrical System		12 V DC, negative ground, 60 A alternator
Rated Power @ Installed Speed	kW (hp)	63,4 (85)
Miscellaneous		
Fuel Capacity	L (gal)	102 (27)
Hydraulic Oil Capacity	L (gal)	61 (16)
Gradeability (theoretical)		31%

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Contact Pressure	14-PLY	Inflation in kPa (PSI)					
		241,3 (35)	344,7 (50)	482,6 (70)	620,5 (90)	758,4 (110)	896,3 (130)
458,6 kg (1,011 lb)		317,2 (46)	344,7 (50)	386,1 (56)	420,6 (61)	468,8 (68)	510,2 (74)
842,3 kg (1,857 lb)		365,4 (53)	399,9 (58)	441,3 (64)	489,5 (71)	530,9 (77)	579,2 (84)
1 227 kg (2,705 lb)		399,9 (58)	441,3 (64)	489,5 (71)	537,8 (78)	586,1 (85)	634,3 (92)
1 380,7 kg (3,044 lb)		—	455,1 (66)	503,3 (73)	551,6 (80)	599,8 (87)	648,1 (94)



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