

V O L V O



Electric Asphalt Compactor 2.8 t / 6,195 lb

DD25 ELECTRIC

Volvo Construction Equipment

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The electric compact double-drum roller DD25 Electric will help you reduce your carbon footprint while maintaining high productivity and uptime.



Paving the way for zero emissions

The DD25 Electric asphalt compactor is a zero-exhaust emission solution for small scale compaction projects including street repairs and patching, parking lots, driveways, municipalities and rental houses. Its electric driveline is based on the same established architecture and components as other trusted Volvo machines. With no engine to service, maintenance-free batteries and motors, the DD25 Electric will offer a lower total cost of ownership.



High performance

- Combines the Volvo Asphalt Compactor platform with battery power.
- 30% more power than its diesel equivalent
- Improved on-grade performance at high altitudes



Reliable charging

- Batteries store enough power to complete an average shift, based on type of job and intensity of work cycle
- Integrated on-board charger.
- 0-100% in 3 hours (depending on AC power level)
- 0-100% in 1 hour (optional off-board DC fast charger)



Zero-emission operation

- Ideal for environments with strict emission regulations
- Help you meet your sustainability goals.
- Cleaner work environment for operators and site teams
- Contributes to a completely zero-emission workplace



Serviceability

- Maintenance-free electric motor
- No engine-related components and maintenance requirements
- Ground-level service access
- No engine-related consumables
- Auto-motor shut off to save wear and costs

Explore the machine
in our walkaround video



Volvo DD25 Electric in detail

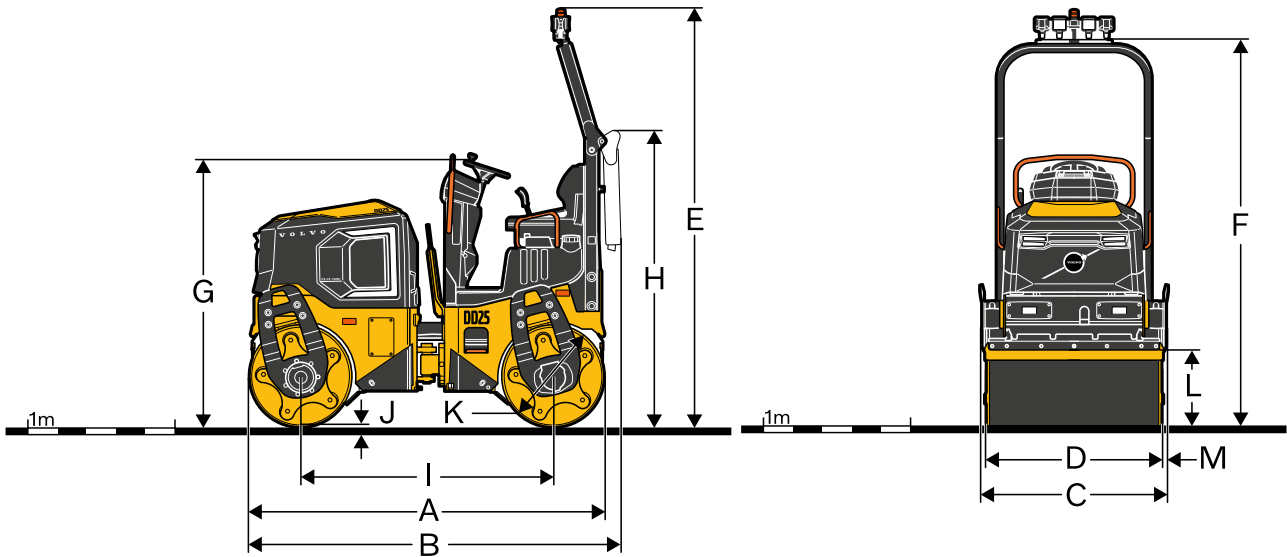
Model			DD25 Electric Narrow Drum		DD25 Electric Wide Drum		
Machine weights (w/ ROPS)							
Operating weight	kg	lbs	2,659	5,870	2,809	6,195	
Weight @ front drum	kg	lbs	1,347	2,973	1,422	3,136	
Weight @ rear drum	kg	lbs	1,312	2,896	1,387	3,059	
Shipping weight	kg	lbs	2,259	4,986	2,409	5,311	
Drum							
Width	mm	in	1,000	39	1,200	47	
Diameter	mm	in	700	28	700	28	
Shell thickness	mm	in	13	1	13	1	
Finish	Machined						
Vibration							
Frequency	Hz	v/min	55/67	3,300/4,000	55/67	3,300/4,000	
Nominal amplitude	mm	in	0.53	0.021	0.503	0.02	
Centrifugal force	high	kN	lbf	38	8,430	41	9,127
	low	kN	lbf	26	5,732	28	6,227
Propulsion							
Type	Closed-loop hydrostatic						
Drum drive	Radial piston						
Travel speed	km/h	mph	0 – 10.3	0 – 6.4	0 – 10.3	0 – 6.4	
Battery							
Battery Type	Li-ion, NMC						
Battery Voltage	V		48				
Battery capacity (full package)	kWh		20				
	Ah		450				
Indicative runtime (depending on application)	hours		up to 4				
Auxiliary Battery Voltage	V		12				
Auxiliary Battery capacity	Ah		20				
Electrical motor							
Motor type	Permanent magnet						
Motor power (peak)	kW	hp	24.5			32.9	
Motor power (continuous)	kW	hp	16.3			21.9	
Operating mode max. / Standard	r/min		2,340 / 1,930				
On-board charging time Level 1 (120VAC)	h		-12				
On-board charging time Level 2 (240VAC)	h		-3				
Electrical system							
Well protected high-capacity electrical system. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard.							
Configuration	Vibratory						
Electric drivetrain rating (net)	kW	hp	24	32	24	32	
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	68.7	260	68.7	
Miscellaneous							
Articulation angle	°		+ / - 30				
Oscillation angle	°		+ / - 10				
Fuel tank capacity	l	gal	40	10.6	40	10.6	
Hydraulic oil capacity	l	gal	27	7.1	27	7.1	
Gradeability (theoretical)	%		30				
Guaranteed Sound Level							
Operator's Ear, acc. to ISO 11203:2009	L _{pA} dB		-				
External, acc. to Directive 2000/14/EC	L _{WA} dB		-				

Above specifications are for machine equipped with 1,200 mm / 47.2 in drum

*From ground to top of standard ROPS without work lights or beacon



Specifications



Dimensions	DD25 Electric			
	Narrow Drum		Wide Drum	
Unit	mm	in	mm	in
A	2,420	95.3	2,420	95.3
B	2,540	100	2,540	100
C	1,090	42.9	1,290	50.8
D	1,000	39.4	1,200	47.2
E	2,955	116.3	2,955	116.3
F	2,650	104.3	2,650	104.3
G	1,870	73.6	1,870	73.6
H	2,020	79.5	2,020	79.5
I	1,720	67.7	1,720	67.7
J	13	0.5	13	0.5
K	700	27.6	700	27.6
L	490	19.3	490	19.3
M	45	1.8	45	1.8

Equipment

STANDARD EQUIPMENT

Operator Environment

Foldable arch ROPS
Dual propulsion control lever
Sliding seat
5" LED display
12 volt accessories socket
Water level indicator
Orange seat belt

Electronics

Dual on board chargers
Emergency stop button
Battery cut-off switch
Maintenance free 48V battery
Telematic system

Drums

1 200 mm drums
Adjustable offset (0 – 50 mm)

OPTIONAL EQUIPMENT

Operator Environment

Fixed arch ROPS
FOPS
Single propulsion control lever

Electronics

LED work lights
LED strobe light
Back up alarm
Charging kit
DC fast charger

Drums

1 000 mm drums
Inside scrapers

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