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Electric Asphalt Compactor 3.8 t 42 kW

# DD40 ELECTRIC

Volvo Construction Equipment

# DD40 ELECTRIC

The DD40 Electric is ideal for sensitive or urban environments with strict emission regulations and for those looking to meet sustainability goals.



# Cut costs with our electric compactor

DD40 Electric contributes to a cleaner and more enjoyable work environment for operators, site teams and passers-by. Thanks to its size and energy source, DD40 Electric is your perfect partner for noise- and emission sensitive areas such as landscaping projects or indoor work. An electric machine can help you reduce energy-related costs by more than 60%, thanks to the cost-effective nature of electricity as a power source, compared to fuel.



## Charging

- Optional off-board DC fast charging time <1 hour
- Integrated on-board charger: 100% charge <7 hours
- Uptime: full shift depending on application
- Liquid-cooled traction voltage battery system enhances battery life



## Performance

- Built-in auto idle function
- Auto start and stop vibration
- 260 litres LDPE water tank with adjustable water flow
- Urethane front and rear drum wipers
- Rust-proof pressurized water system



## Operator features

- Electro-proportional joystick
- 8" touchscreen LCD display
- LED worklights and daytime running lights
- Operator presence detection



## Serviceability

- Maintenance-free electric motor
- No engine-related components
- Water nozzles quickly removed without tools
- Maintenance-free eccentric bearings



## A clean, smart choice

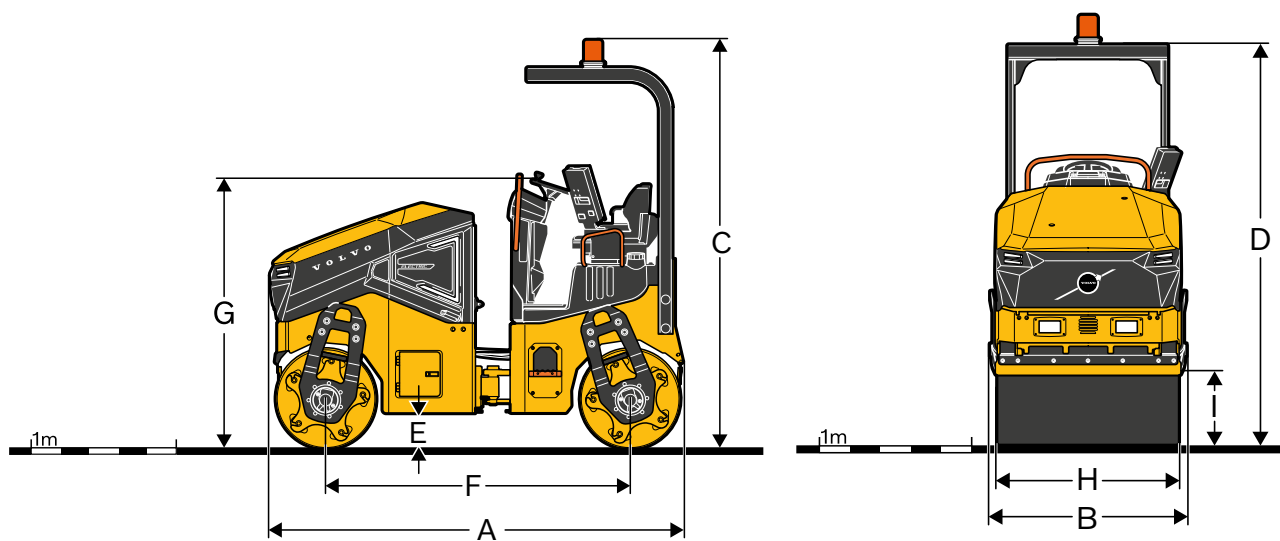
- No engine-related consumables
- A zero-emission, quiet power source
- Ability to work indoor, in low carbon zones and noise sensitive areas
- Works a full shift thanks to energy efficiency and battery capacity

# Volvo DD40 Electric in Detail

| Model   |       | DD40 Electric Standard Drum                          |    |
|---|-------|--|----|
| <b>Machine weights (w/ ROPS)</b>              |       |  |    |
| Operating weight                              | kg    | 3 800  |    |
| Weight @ front drum                           | kg    | 2 030  |    |
| Weight @ rear drum                            | kg    | 1 770  |    |
| Shipping weight                               | kg    | 3 450  |    |
| <b>Drum</b>                                   |       |  |    |
| Width   | mm    | 1 200  |    |
| Diameter                                      | mm    | 700  |    |
| Shell thickness                               | mm    | 13   |    |
| Finish  |       | Machined   |    |
| Drum offset, left/right                       | mm    | 50/50  |    |
| <b>Vibration</b>                              |       |  |    |
| Frequency                                     | Hz    | 55/67  |    |
| Nominal amplitude                             | mm    | 0.5  |    |
| Centrifugal force                             | high  | kN   | 40 |
|   | low   | kN   | 28 |
| <b>Propulsion</b>                             |       |  |    |
| Type  |       | Closed-loop hydrostatic                              |    |
| Control                                       |       | Electro-Proportional Joystick                        |    |
| Drum drive                                    |       | Radial piston  |    |
| Travel speed                                  | km/h  | 0 – 10   |    |
| <b>Electrical systems</b>                     |       |  |    |
| Battery Type                                  |       | Lithium-ion  |    |
| Battery capacity                              | kWh   | 67   |    |
| Indicative runtime (depending on application) | hours | 4-6  |    |
| Auxiliary Battery Voltage                     | V     | 12   |    |
| Motor power (rated)                           | kW    | 42   |    |
| Screen  |       | 8" Capacitive touch screen LCD                       |    |
| Navigation                                    |       | Jog wheels for Navigation                            |    |
| Idle  |       | In built Auto Idle function                          |    |
| Lamps   |       | DRL & LED work lamps                                 |    |
| <b>Charging</b>                               |       |  |    |
| Off-board DC Fast Charging                    | hours | ~ 1  |    |
| On-board AC Slow Charging                     | hours | ~ 7  |    |
| <b>Brakes</b>                                 |       |  |    |
| Service                                       |       | Hydrostatic  |    |
| Parking secondary                             |       | Spring-applied, hydraulic release on each drum       |    |
| <b>Water system</b>                           |       |  |    |
| Type  |       | Pressurized  |    |
| Nozzles                                       |       | 4 per drum   |    |
| Filtration                                    |       | Inlet and nozzle filtration                          |    |
| Drum wipers                                   |       | Spring-loaded, self-adjusting urethane wipers        |    |
| Water tank capacity                           | l     | 260  |    |
| <b>Safety</b>                                 |       |  |    |
| Indicators                                    |       | Warning lamps, alarms on 8" Touch screen LCD display |    |
| Audio alarm                                   |       | Reverse alarm  |    |
| Sunshade                                      |       | ROPS   |    |
| Operator restraint                            |       | Seat belt  |    |
| Seat  |       | Seat with Operator presence switch                   |    |
| Switch  |       | Centralized emergency shut down Switch               |    |
| <b>Miscellaneous</b>                          |       |  |    |
| Articulation angle                            | °     | + / - 30   |    |
| Oscillation angle                             | °     | + / - 10   |    |
| Inside turning radius (to drum edge)          | mm    | 3 350  |    |
| Hydraulic oil capacity                        | l     | 55   |    |
| Gradeability (theoretical)                    | %     | 30   |    |



# Specifications



| Dimensions |                                   | DD40 Electric |
|------------|-----------------------------------|---------------|
|            |                                   | Standard Drum |
| Unit       |                                   | mm            |
| A          | Overall length                    | 2 860         |
| B          | Overall Width                     | 1 320         |
| C          | Overall Height (Including Beacon) | 2 850         |
| D          | Overall Height                    | 2 640         |
| E          | Ground clearance                  | 250           |
| F          | Wheel base                        | 2 100         |
| G          | Height (top of Steering Wheel)    | 1 870         |
| H          | Drum Width                        | 1 200         |
| I          | Kerb clearance                    | 480           |

# Equipment

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## STANDARD EQUIPMENT

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### Operator environment

ROPS

Electronic Joy Stick - Propulsion control lever

1 USB charger socket

8" touchscreen Display

Water level indicator

Operator Presence switch with timer delay

Seat Belt

### Electrics and electronics

Emergency stop button

Battery disconnect switch

Daytime running lights

LED work lamp

Back-up alarm

AC charging kit

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## OPTIONAL EQUIPMENT

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### Electrics and electronics

Beacon

30 kW DC Fast Charger

80 kW DC Fast Charger

### Structure

Foldable Arch ROPS

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