

DYNAPAC

ELECTRIC PAVER EMISSION- FREE

SD1800W e



 **DYNAPAC**
FAYAT GROUP

Z.E.R.A

dynamac.com



ELECTRIC PAVERS

CHARGE & CHANGE THE WAY YOU LOOK AT PAVERS



Z.E.R.A

*Up to four hours of performance
with one single charge*

Paving capacity of up to 350 t/h

Highway class screed design

*From 5% to 80% in less than
1 hour with DC charging*

It's been proven that inner cities account for 60% of global greenhouse emissions. This has led international and governmental policymakers to implement increasingly stricter regulations regarding emission and carbon footprint reductions within city limits.

In helping drive the push towards full paver electrification, we created the Dynapac SD1800W e. As a glimpse of things to come, it will help lead the way to a new era of more environmentally-friendly machines and cleaner construction site environments. And the electrified journey has just begun.

ELECTRIFYING THE PATH FORWARD

An effective and resource-saving all-rounder

NEW ELECTRIC DRIVE

A 98kWh Lithium-ion battery, and 55kW 3-phase permanent magnet synchronous motor (PMSM) that supplies the paver with the necessary power and heightened efficiency.

PAVING AUTONOMY

Depending on the type of job, application, and intensity of the work cycle, the SD1800W e offers up to four hours of rugged performance with one single charge.

WALL BOX OR A CHARGING STATION

A standard 22kW on-board charger will get the machine up to capacity at 400V 32A AC in approximately four hours with a Type 2 charger.

700V DC CHARGING

Thanks to its high voltage architecture, the SD1800W e is capable of handling charging speeds of up to 80kW, charging the battery from 5% to 80% in less than one hour with a CCS2 charger.

PREPARED FOR DEMANDING CONDITIONS

The high voltage electric components like battery, inverter, DC/DC converter, and electric motor are connected to a high efficiency cooling system, which consists of a bi-directional heat pump with high voltage compressor.



POWER & PERFORMANCE

The electric model delivers a paving capacity of up-to 350 t/h and can pave up to 4,1m with the screed extended.

SMART PREHEATING

It is possible to preheat the screed while connected to an external power source to save the machine's battery for prolonged paving operation.



BUILT-IN COLLABORATION

The SD1800W e is built in collaboration with SUNCAR - a leader in the electrification of construction machines based in Switzerland. The SD1800W e will be manufactured at Dynapac's production facility in Germany.

WANT TO FIND OUT MORE?

Go to Dynapac Product Information and scan the QR code to enter the Z.ERA product site.



Z.ERA
FOR AN EMISSION FREE WORLD



JOB SITE CONFIDENCE

The SD1800W offers more comfort, spaciousness, and ergonomics while reducing noise, heat, and vibration. The absence of exhaust fumes is a plus for the operator, crew, and environment, making it ideal for urban areas.



HIGH PRODUCTIVITY

Power up your productivity and enjoy an electric drive with a 98kWh lithium-ion battery, as well as a 55kW 3-phase electric motor driving a high-efficiency hydraulic system. Discover integrated advanced leveling systems and the most stable screed in the market.



MAXIMUM UPTIME

A battery that packs a punch. The impressive autonomy, performance and charging speed of the SD1800W e are made possible by the state-of-the-art battery pack. Capable of handling charging speeds of up to 80kW, fully charging your battery in less than 1 hour, so you can take advantage of the 700V fast charging.



LOW COST OF OWNERSHIP

Fewer interventions. The SD1800W e has maintenance-free electric drive, needs minimal daily checks, and requires less servicing, saving you time and money.



HIGH-QUALITY RESULTS

Uncompromised paving quality. At the heart of the operation, the high-quality paving results provided by the V3500-Series screed comes unchanged, with stable and smooth operation.



ENVIRONMENT / SUSTAINABILITY

Transition to an electric future. The SD1800W e has a more beneficial impact on the environment, operators, and the surrounding. ZERO EMISSIONS and reduced noise levels make for a safer construction site.



THE FUTURE OF ELECTRICALLY DRIVEN APPLICATIONS

FOR AN EMISSION-FREE WORLD

Z.ERA

DYNAPAC'S ROLE IN LEADING OUR INDUSTRY TO AN CARBON-NEUTRAL FUTURE

The **Z.ERA program** at Dynapac is helping accelerate our continual push towards an emission-free workplace. This can be seen in the investment and further refinement of alternative fuels such as battery-driven engines and hydrogen power solutions.

The initial phase of the program has focused on offering a product portfolio that is optimally suited for inner-city environment applications such as smaller road assignments like bicycle lanes and repair works. Among the many benefits of alternative, energy-powered pavers compared to their diesel counterparts are reduced carbon footprints, more savings resulting from diminished operational costs, and less wear & tear due to fewer fluids and moving parts.

Additionally, operator comfort is heightened with lower noise levels and no exhaust fumes.

As a company committed to innovation and fostering beneficial change, we are helping play an important role in the transition to an emission-free future. Our **Z.ERA program** will assist in leading the way with its first focus on inner-city work sites.

At Dynapac, we believe this transformation starts with replacing combustion engine power packs with robust and reliable battery technology. Based on customer's reliance on a full day's worth of performance, and available technology, we began with machines designed for city and repair work which all had shorter operating times. Today, this innovative portfolio includes an Electric Citypaver SD1800W e and Electric double drum asphalt rollers CC900 e/ CC1000 e and several electric-driven solutions for light compact applications.

Dynapac is a leading supplier of high-tech soil and asphalt rollers, light equipment, and pavers. We're committed to strengthening customer performance by being the reliable and innovative go-to partner on the road ahead. Dynapac is represented worldwide via its regional sales- and service offices and cooperates with an extensive and professional distribution network. Headquartered in Wardenburg, Germany, Dynapac has production facilities in Europe, South America and Asia. Dynapac is part of the FAYAT Group.





TECHNICAL DATA

ELECTRIC CITY PAVER

TECHNICAL DATA	SD1800W e
Weight (incl. standard screed)	10.30 t
DIMENSIONS	
Basic width	1.90 m
Working width (max) incl. extension boxes	4.10 m
Working width (basic screed) infinitely adjustable	3.50 m
Working width (min) with reducing shoe	0.70 m
Capacity	
Placement thickness (max)	200 mm
Theor. placement capacity	350 t/h
Electrical system	
Battery type	Lithium-Ion
Nominal battery voltage	700V
Battery capacity (gross)	98 kWh
Auxiliary battery voltage	24 V
Charging	
5 -80% @ 80kW (DC)	40 min
5 -80% @ 400V 22kW (AC)	3 hours
Electrical Motor	
Motor type	Permanent Magnet Synchronous Motor (PMSM)
Motor power @ 3000 rpm	55 kW
traction	
Max. paving speed	25 m/min
Transport speed	15 km/h
Conveyor	
Conveyor type	Dual bar feeder
Conveyor width	700 mm
Auger	
Auger diameter	320 mm
Height adjustment	200 mm