

Steorā CR

THE SMART BENCH



A new generation street bench

Global environmental circumstances call for concrete steps toward change in behaviour of urban citizens. Cities are overcrowded, and renewable energy and environmental protection have become the key economic and social challenges.

Street furniture is a simple entry point to a world of smart cities. A relatively simple looking product, but with vast usage potential, a solar powered bench comes with multiple functionalities a wireless charging pad and charging ports for wired phones and other smart devices, night illumination, energy saving main controller, data collecting etc.

Our smart bench has in-built sensors for data collection and analysis, gathering information on, for example, the number of bench users, operability of various components, and atmospheric conditions. Additionally, bench owners can easily change settings on the dashboard.

With its simple design and convenient size, Steora can be installed anywhere, outdoors and indoors.



Why Steora?

Overall usage experience and feedback will serve as the basis for future development of smart solutions for digitalization in sustainable environments. Therefore, Steora is a perfect and unique Internet of Things (IoT) product for smart environments or smart cities.

When resolving the challenges of sustainability, we focus on the nexus between people, technology, and urban design. In order to facilitate the implementation of strategic enhancements to civic spaces for better living, we introduce the Steora, the most ingenious smart bench ever designed.



Steora STANDARD CR

Simplicity at its best

Steora Standard CR is the smart bench of choice in the world. It is designed for outdoor spaces exposed to plenty of sunlight, such as city squares, marinas or parks.

Steora Standard CR is 100% solar powered and does not require any additional power supply or infrastructural changes.

The controller is specially developed to produce up to 30% more energy. In winter days, it monitors weather conditions and powers off the bench in case of bad weather.

With its simple, balanced design and convenient size, Steora can be installed to substitute regular street benches, bringing a touch of modern aesthetic to outdoor spaces together with solar-powered Wi-Fi hotspot and charging stations.

Lead production time: 30 days

Minimum order: 1

Available colors: White 9001 On request



Construction
Dimensions:W: 178 cm; D: 45 cm; H: 50 cm. Weight: 88 kg



Photovoltaic modules
Monocrystalline / Total power: 110 W



Battery pack
Type: AGM / Capacity: 72 Ah
Optional: Hybrid module to connect to the power grid



USB charging
Number of ports: 2
Power (per port): 5 W (1A)
Other: short circuit protection, LED light



Wireless charging
Power: 10 W / Efficiency: up to 70%



Internet technology(optional)
4G LTE / Speed: up to 150 Mbps / Range: 4 20 meters Other:
custom SSID, user and web page restriction, custom homepage...



Cooling system
Type:aircooling/Numberoffans:4 Air
flow: 370m3/h
Temperature trigger: 35°C



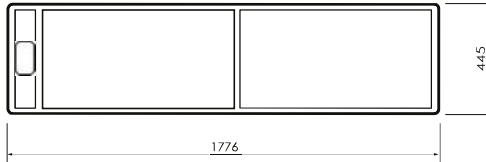
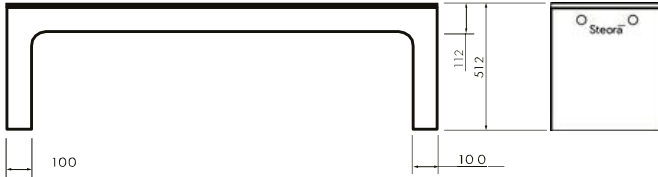
Ambient light
Range: 2 meters
Color: White



Steorá



FAQ



How long does it take to fully charge a phone device?

Charging time depends on charging type and smartphone model. When using wireless charger, it usually takes up to 90 minutes to fully charge a device, as the technology is still in development phase. Charging speed when using USB ports is usually between 1 and 1.8% of battery per 1 minute. Charging speed also depends on whether the smartphone is in use while charging, or in the stand-by mode.

How come the bench does not have a back rest?

Our bench was designed to fit seamlessly into any environment and allow seating from all sides. A back rest would disrupt this concept and potentially create problems with charging since shadowing negatively affects the energy yield of PV modules.

How many days can Steora work without sunlight?

This depends on several factors such as the number of bench users, amount of sun and clouds in the course of a day, etc. Usually, Steora can function normally up to 5 days without direct sun exposure, before the primary functions start to power off to save the battery. USB charging ports are the last to shut down.

How long does it take for a bench to be fully charged?

In summer days, Steora can charge its battery system within 1 day, while in winter this can take up to 10 days. That is why Steora is mostly in standby mode during winter (this refers only to Steora Standard, as all other models are AC grid connected and maintain full functionality throughout the year).

What surface should the bench be installed on?

Steora has to be installed on a solid surface concrete, asphalt or stone. The surface needs to be at least 10cm deep. In case of Steora Standard, the bench location has to be directly exposed to sunshine.



Environmental Street Furniture

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