

Product presentation

Supplier: Etneo Italia

Contact: Alessandro Drappo

Project name: SMART BENCHES



Etneo Italia srl, address Giovanni Bovio n°6, 28100 Novara, phone: +39 0321.697.200,
Mail: energia@etneo.com - <https://www.etneo.com/en/smart-energy/>






New line of smart benches for all urban spaces

The new line of smart benches is based on modular solutions that can be adapted to the surrounding environment, the solar panel is the sustainability brand, the charging functions are the primary service, backrest, armrests, displays are some of the add-ons available. Finally we've added new generation sensors and a completely renewed web platform for remote control.



Smart Bench model Classic
Only seat with PV, storage
and integrated wireless charging.

The image is a promotional graphic for a smart bench. The background is a photograph of a park setting with a yellow building and a black wrought-iron fence. In the foreground, a white metal bench with dark brown wooden slats is visible. A semi-transparent dark blue banner is overlaid on the bench, containing white text. On the right side of the image, there is a large, stylized graphic of a bench's armrest and seat area, showing a QR code, a wireless charging symbol, and a battery level indicator.

Smart Bench model Classic plus
Seat with backrest and armrests
with PV, storage and wireless charging
integrated.



CLASSIC DETAILS



- **Solar panels:** vandal-proof IK08 (EN62262) with 99W of power.
- **Lithium battery pack:** high temperature resistance, limited space and equipped with advanced BMS.
- **Wireless charging:** 2 pads that support all phones, watches and Qi earphones, on-board intelligent stand-by system for energy saving.
- **Led ambient lights:** automatic on/off system and adjustable time according to the season.
- **Seat cooling system:** air cooling technology, automatic temperature trigger.
- **Sensors:** PUT sensor for pressure, humidity, temperatures, energy sensor, user counter with number of seats occupied.
- **GSP position in real time:** online alarm if the position of the bench changes, position visible through the SOLOS Smart City platform.
- **Internal server communication system :** 5 years of communication with the SOLOS platform, maintenance and online product updates.
- **Battery status indicator :** integrated into the body of the bench, indication of the 25-50-75-100% charge status.

Smart Bench model City
Only seat with PV, Lithium storage
and integrated wireless charging





The addition of backrest and armrests transforms the aesthetics of the product as well as adding energy that can be produced



Smart Bench model City plus
Seat with backrest and armrests
with PV, storage and wireless charging
integrated.

With the add-on of the LCD or LCD + AI camera, the City bench provides OOH advertising...



Smart Bench model **City LCD**
Only seat with PV, Lithium storage,
wireless charging and LCD display
with integrated AI camera

.... Able to segment passersby and post relevant ads to them.



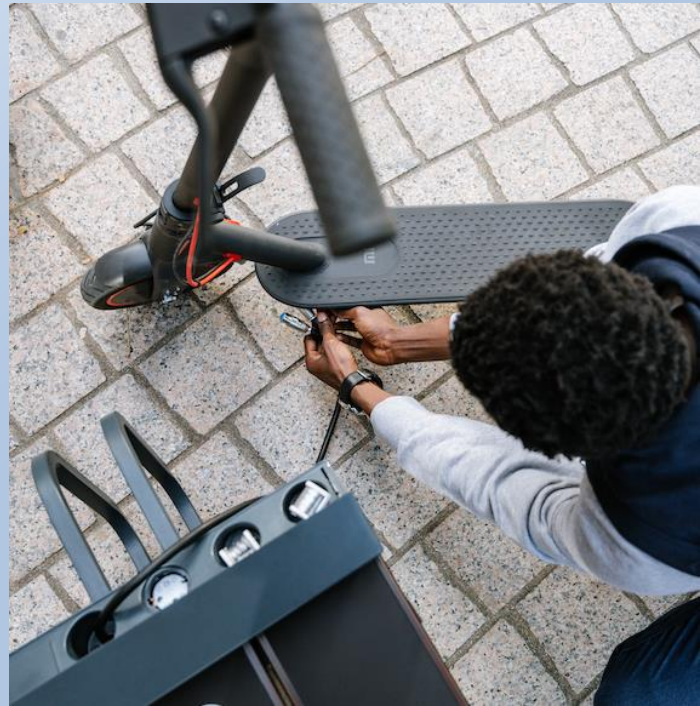
CITY DETAILS



- **Solar panels:** vandal-proof IK08 (EN62262) with 99W of power.
- **Lithium battery pack:** high temperature resistance, limited space and equipped with advanced BMS.
- **Wireless charging:** 2 pads that support all phones, watches and Qi earphones, on-board intelligent stand-by system for energy saving.
- **Led ambient lights:** automatic on/off system and adjustable time according to the season.
- **Seat cooling system:** air cooling technology, automatic temperature trigger.
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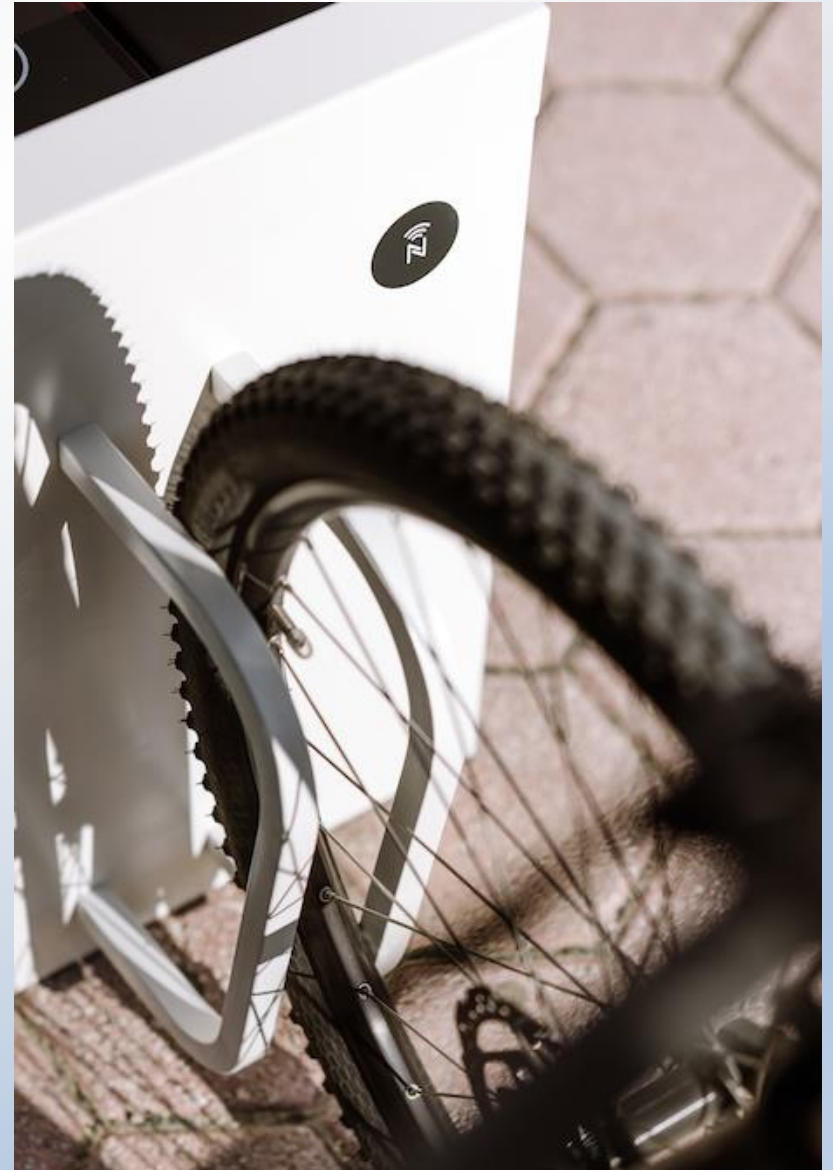
Smart Bench model Cyclo has only seat with PV, Lithium storage inside the bench, wireless charging, e-bike/e-scooter, charging & integrated tools and pump for maintenance



Smart Bench model Cyclo plus
Seat with PV, backrest with PV,
Lithium storage inside the bench,
wireless charging, e-bike/e-scooter
charging & integrated tools and
pump for maintenance



A real infrastructure dedicated to soft mobility for both urban environments...



...and extra-urban environments with the possibility of adding sensors for air quality

CYCLO DETAILS



- **Solar panels:** vandal-proof IK08 (EN62262) with 99W of power.
- **Lithium battery pack:** high temperature resistance, limited space and equipped with advanced BMS.
- **Wireless charging:** 2 pads that support all phones, watches and Qi earphones, on-board intelligent stand-by system for energy saving.
- **Led ambient lights:** automatic on/off system and adjustable time according to the season.
- **Seat cooling system:** air cooling technology, automatic temperature trigger.
- **Sensors:** PUT sensor for pressure, humidity, temperatures, energy sensor, user counter with number of seats occupied.
- **GSP position in real time:** online alarm if the position of the bench changes, position visible through the SOLOS Smart City platform.
- **Internal server communication system :** 5 years of communication with the SOLOS platform, maintenance and online product updates.
- **Battery status indicator :** integrated into the body of the bench, indication of the 25-50-75-100% charge status.
- **Air compressor:** supports Presta and Schrader valves, Automatic start/stop system.
- **Hand tools :** screwdrivers (Philips and flat), hexagonal (4-5-6), keys (7-8-9-10-13-14-15-16).
- **DC charging plugs:** 220V plug, 3 connectors for electric scooters (Lime, Bird, Xiami, Razor, Segway).
- **Parking:** convenient rack for bicycle or scooter parking.

AVAILABLE ADD-ON

MECHANICAL ACCESSORIES

- Different colors of the metal structure: RAL9001 & RAL8017
- **Backrest:** with 66W polycarbonate solar panels
- **Backrest and armrest**

OPTIONS ON THE 3 MODELS

- **USB charging:** 4pcs. Apple, Qualcomm, Samsung adaptive fast charging chargers
- **Air quality sensors:** PM2,5-PM10, No sensor, ozone sensor
- **Noise sensor:** measurement of ambient noise 25-130db
- **WI-FI Hot spot:** editable home page and WI-FI name, support for SIM or ethernet (SIM excluded)
- **Seat heating:** active during the winter days, automatic temperature trigger (requires hybrid module)
- **Hybrid module:** power supply for 0-24h mains use, designed for long winters with less sun

OPTIONS FOR CITY & CYCLO

- **LCD Display:** 19" LCD display, use of the electric grid 0-24h.
- **LCD display & AI/ML:** 19" LCD display, use of the electricity network 0-24h, AI photocom, information on pedestrians.



WITH THE ADVANCED SOLOS
DASHBOARD EVERY APP
CONTROLS A PRODUCT OR
PRODUCT FUNCTIONS
REMOTELY. CITIES CAN THUS
MONITOR THEIR SMART SPACES
WITH EASE

SENSORS

10.11.2020 - 23.11.2020

Today ☐ Yesterday ☐ Last 7 days ☒ Last 30 days ☐ Custom ☐

Current average temperature **23°C**

OVERVIEW

SELECT PRODUCTS

TEMPERATURE

HUMIDITY

USERS

INTERNET

AIR QUALITY

Average temperature



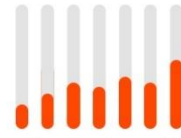
maximum temperature 32 C
minimum temperature 16 C

Average Day temperature



maximum temperature 32 C
minimum temperature 16 C

Average Night temperature



maximum temperature 14 C
minimum temperature 3 C

Temperature forecast



maximum temperature 32 C
minimum temperature 16 C

min day temp. 08:00 AM 16 C

max day temp. 13:07 PM 32 C

min night temp. 04:50 AM 3 C

max night temp. 07:59 AM 14 C

2 products selected [details](#)

XLS export ↓ PDF export ↓

MANAGE

Ambient light schedule ☒

Ambient light off ☐

OVERVIEW

SELECT PRODUCTS

ADMINISTRATIVE MANAGEMENT

PRODUCT NAMES

LOCATION

SUBSCRIPTION

FEATURES MANAGEMENT

WI-FI

AMBIENT LIGHT

Spring

March 21st - June 20th

Turn on: 07:25 PM
[change](#)

Turn

Summer

June 21st - September 22nd

Turn on: 08:05 PM
[change](#)

Turn

Fall

September 23rd - December 20th

Turn on: 07:15 PM
[change](#)

Turn

Winter

December 21st - March 20th

Turn on: 05:45 PM
[change](#)

Turn

11 products selected [details](#)

SETUP

Ivan Mrvoš | Include Ltd.

OVERVIEW

Current password

New password

Confirm new password

Password change reminder after ☒ 3 months ☐ 6 months ☐ never

SAVE

PERSONAL SETTINGS

PASSWORD

TWO FACTOR AUTHENTICATION

DEVICES

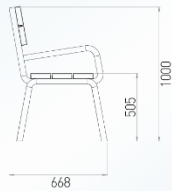
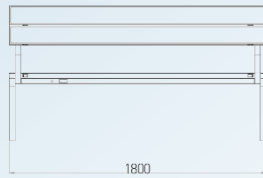
NOTIFICATIONS

COMPANY SETTINGS

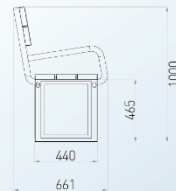
MANAGE USERS

×

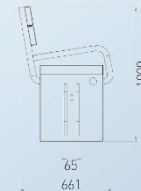
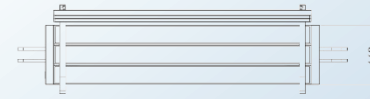
Steora CLASSIC



Steora CITY



Steora CYCLO



- RAL 7016 - Traffic white
- RAL 7011 - Iron gray
- RAL 7030 - Stone gray
- RAL 9001 - White cream
- RAL 8017 - Brown chocolate

STRUCTURE OF SMART BENCHES

- CLASSIC & CITY
- Dimensions: width 181cm, depth 65cm, height 51cm
- Weight: 45Kg Classic & 65Kg City
- CYCLO
- Dimensions: width 232cm, depth 45cm, height 57cm
- Weight: 95Kg
- Material: alu-zink aluminum for outdoor use
- Can be installed on: solid surface such as concrete, stone or asphalt with a depth of at least 10cm.

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PACKAGING

- TYPE: wooden box
- Classic & City base
- Classic & City + backrest and armrests
- Cyclo base & City with flowerpot
- Cyclo + backrest and armrests
- Cyclo + flowerpot &/or backrest &/or armrests

186*77*77,5cm

191*77*125,5cm

246*77*75,5cm

246*77*125,5cm

286*77*125,5cm

THANKS FOR YOUR ATTENTION



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