

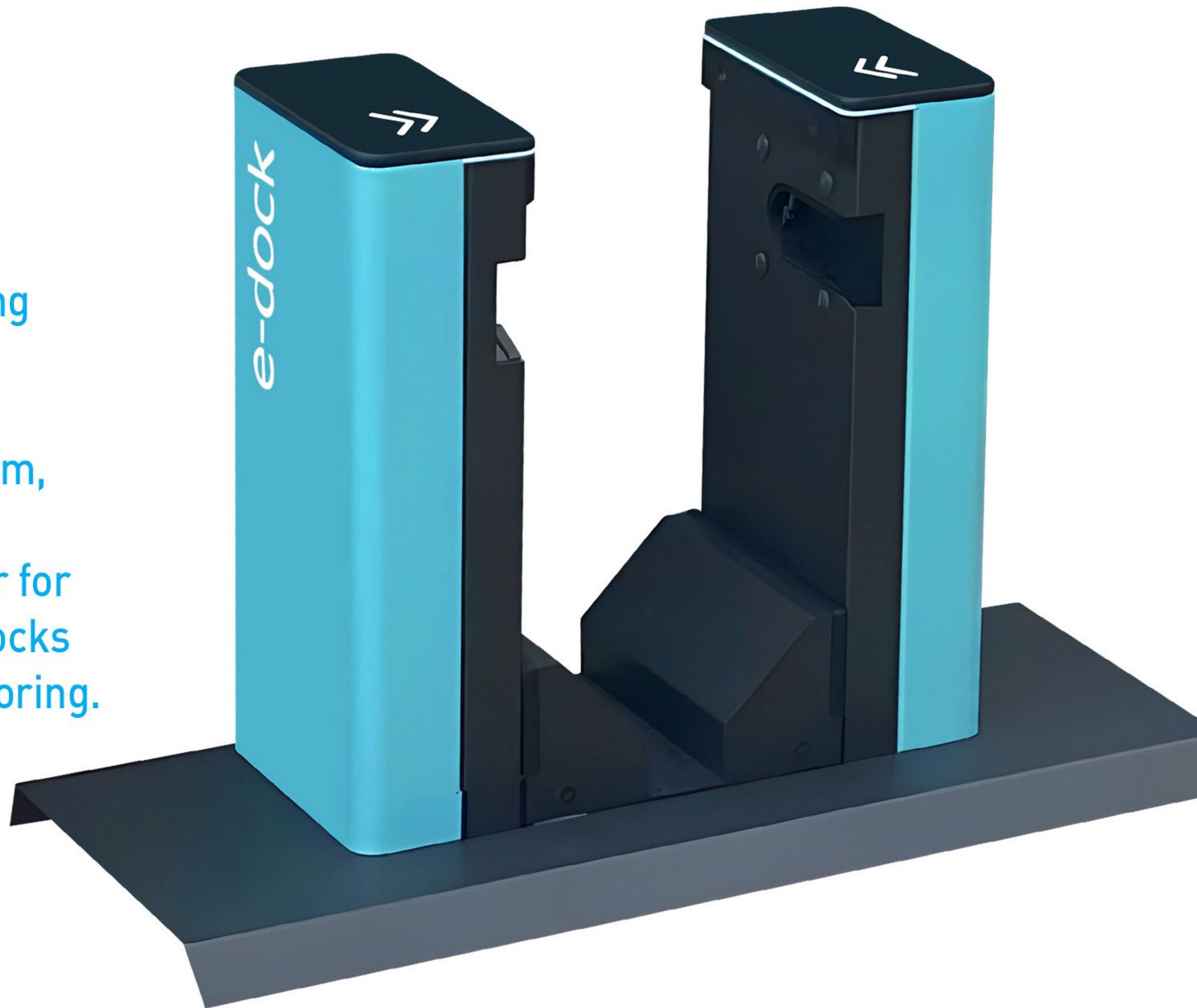
BD-360

Charging & Locking Dock

The BD-360 bike dock is a bike-agnostic, charging & docking system for electric bikes.

The innovative locking mechanism, designed by AMCO, secures the e-bike while also provides power for charging, e-bike identification, locks breach detection & power monitoring.

Each station consists of one controller and multiple docks, arranged in a flexible fashion.



Key Features

- Minimalistic & compact design. Suitable for installations that require small footprint.
- E-bike agnostic design. Adaptable to different wheel sizes and battery voltages.
- Flexible & arbitrarily expandable, using encrypted bus communications.
- Magnetic bike detection and RFID-based identification of the docked bike.
- Fully automated charging, with voltage & current monitoring. Electronically controlled fuse (e-fuse).
- Passive / mechanical lock of the bike. No communications or power needed.
- LED & buzzer user feedback.
- IP67, vandal-resistant design, rated at 6kN of pull force.
- Minimal modification needed to the e-bike.

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Technologies

TECHNICAL SPECIFICATIONS

Material	Galvanised steel with coating (2mm thickness).
Power	Universal power, 85-240VAC 50/60Hz.
Charging	42V or 54V, 4A Charger (non-wireless/non-inductive), electronically protected, with voltage and current monitoring.
Bike Identification	Hall sensors for presence, 125kHz RFID for identification.
Security	Encrypted communications. Position monitoring of all lock parts.
Mechanical Strength	Minimum 15000 dock/undock cycles. 6kN pulling force.
Operating Temperature	-20oC to +60oC.
Coating	Polypropylene coating (10+ years corrosion protection).
Dimensions	43x21x47cm dock only, 70x30x47cm with base plate. Weight 23kgs.
CONNECTIVITY	<ul style="list-style-type: none">• 4G/LTE modem, Quad-band: 850/900/1800/1900MHz.• MQTT communication protocol, with AES-128 encryption.• Supports firmware / software OTA updates.
INSTALLATION	<ul style="list-style-type: none">• Designed for direct anchoring on the ground (concrete or asphalt).• 4x M10 bolts anchoring pattern.• Delivered on standard Euro pallet, protected with plastic shrink wrap.

Technical data are subject to change without any prior notice | BD_360_Version 6_August2025

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