MADE IN GERMANY

AttiaDesign ongineer ERFURT IndustrialMakerSpace®

GOLD WINNER 2022

Q-RACK E-Bike Station

The parking and charging system for bicycles and e-bikes

Q-RACK Parking Station

- Parking space for 2 bicycles, lockable
- Impact protection rubber lip, protects wheels, frame & components
- Geometry compatible with all bicycle frame types
- Rack fixed to base with safety screws
- Base can be driven over by cars
- System can be upgraded to an e-bike charging station
- Stainless steel brushed / RAL powder coating possible
- Weather resistant materials
- Made in Germany

Q-RACK E-Plug Station V4

- Parking space with charging possibility for 2 e-bikes, lockable
- 2 Schuko plug sockets outlet for all different charging devices
- 100-240V connector, plug & play easy installation, LED lighting 2.4W
- Stainless steel brushed
- Splashproof IP44, roofing recommended
- Standard plug sockets configurable for US, Canada, UK, Switzerland, France, and other regions

Europe - Standard US/Canada Britain

Q-RACK E-Charger Station V4

- Parking space with integrated charger for 2 e-bikes, lockable
- 2 integrated smart chargers, with spiral cable and plug
- 100-240V connector, plug & play easy installation, LED lighting 2.4W
- Stainless steel brushed
- Splashproof IP44, roofing recommended, roof and shading required
- Combination of 1 charger and 1 plug socket possible
- Plug choice for battery systems: Bosch, Yamaha, Shimano, Specialized, etc.

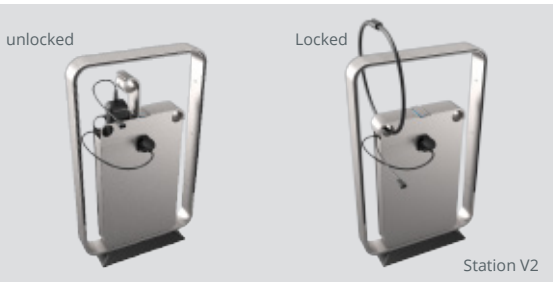
Bosch Rosenberger Yamaha DC

Q-RACK E-Lock Station V2

- Parking space with charging possibility for 2 e-bikes, lockable
- 2 compartments for standard charging power supplies till: 120 x 300 x 70 mm
- Lockable with a private bicycle chain locks till Ø44 mm diameter
- 2 Schuko plug sockets outlet for all different charging devices
- 100-240V connector, plug & play easy installation, LED lighting 2.4W
- Stainless steel brushed
- Splashproof IP44, roofing recommended
- Standard plug sockets configurable for US, UK, CH, Fr, and other regions

Europe - Standard US/Canada Britain

Station V1



Station V2

Station V1

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Special features

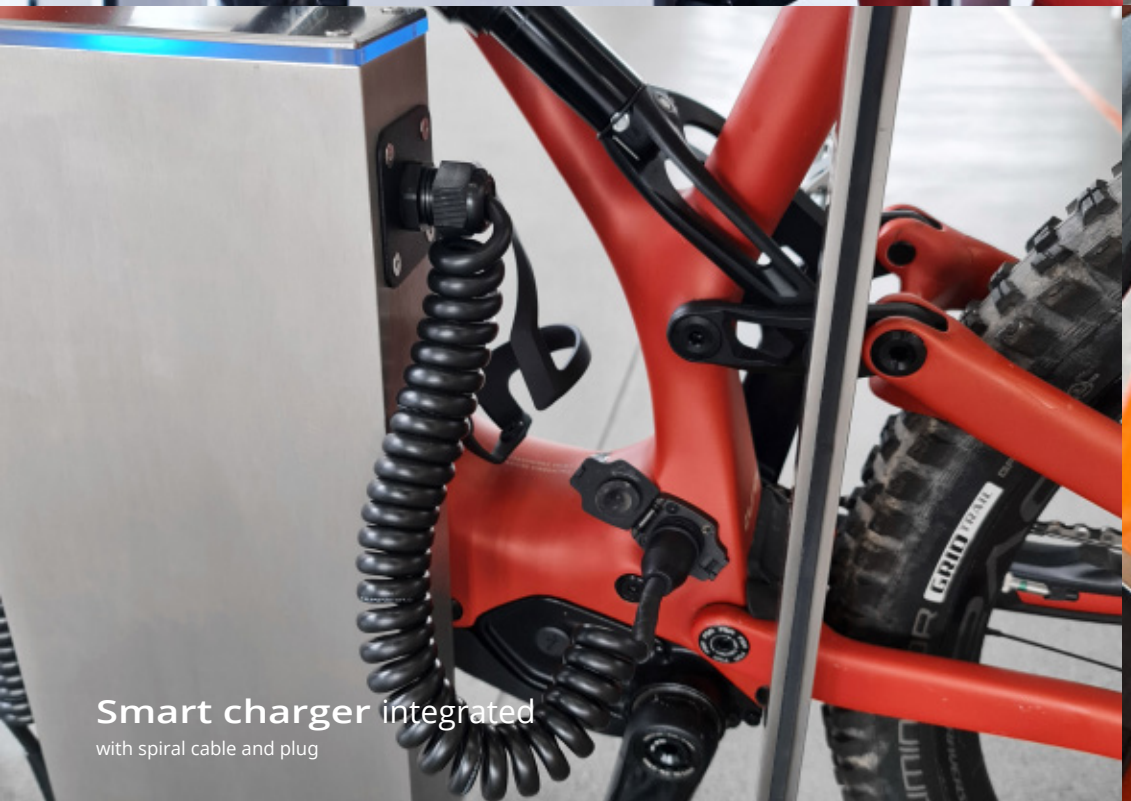
Functions, benefits and options

Lockable Bike on Frame

ockable Parking space for 2 bicycles

Impact Protection Frame

rubber lip, protects frame, paint, wheels & components



Smart charger integrated

with spiral cable and plug

Hook Cable Hang

Keep Your Long Cables Neat and Tidy

Features & options

colours, branding and product features

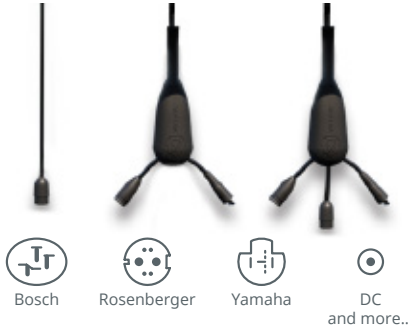
For long-lasting appearance and less traces of use (chipping, peeling, fading) we recommend the stainless steel.
For safety reasons, e.g. in car parks, lanes or pedestrian zones, we recommend signal colours for better visibility.

stainless steel brushed

Light blue RAL 5012

Traffic orange RAL2009

Individual RAL Colour



Colour powder-coating

Customize your Q-RACKS matching your corporate CI Colour.

Branding laser annealing

Customize your Q-RACKS with your corporte Logo.

Smart plug E-Bike System

Single, double ot tripple Smart plug compatible for standard e-bike systems

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MADE IN GERMANY AttiaDesign engineer

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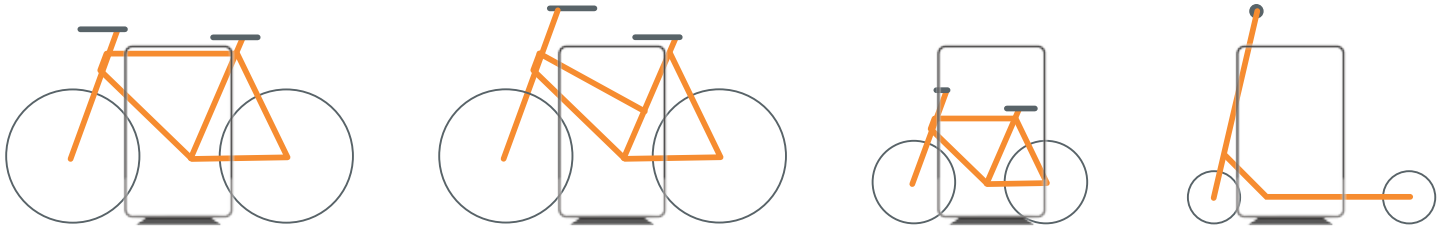
Compatiblity bike types

Our Q-RACK is compatible with a wide range of bike types, Whether a E-bike, city Dutch bikes bike, step-through bikes, mountain biker, Scooter, kids bikes or even other micro-mobility vehicle,



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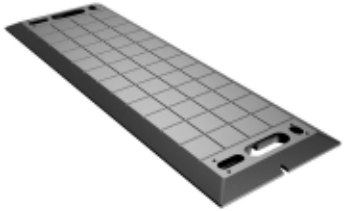
Base Stand

Single or double, anchoring options



Base Stand

Base made of milled POM plastic for 1 parking station, 2 bicycles.

- Can be fixed with screws, max. 12mm diameter, depending on the floor (Concrete screws, heavy-duty anchors, threaded rods, concrete foundation)
- Cable passage for E-charging station
- Can be driven over by car
- Weight: 1.6 kg

Duo-Base Stand

Base made of milled POM plastic for 2 parking stations, 4 bicycles.

- Self-standing and additionally fixable with screws
- Distance between parking brackets: 1000 mm
- Suitable for flexible placement
- Cable feed-through for E-charging station
- Can be driven over by car
- Weight: 16 kg

Cover Stand cap (optional)

Protective cover for hole pattern and wiring when frame is dismantled

- Cover made of milled stainless steel
- Can be driven over by car
- Compatible with Base and Duo-Base
- Dimensions: 74 x 300 x 6 mm
- Weight: 1,0 kg
- 4 Screws M10x25 included

Foundation concrete (optional)

The base from Q-RACK are compatible with the concrete foundation from ERFURT for e-mobility charging system.

- Integrated cable glands
- Integrated mounting elements for easy installation
- Screw connection with two M12x100 mm
- Dimensions: 700 x 350 x 170 mm
- Weight: 107 kg

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Installation anchoring

Suitable anchoring methods are possible, depending on the ground conditions

Standard Soldering Pin Impact Plug

Power connection Confection

- Mains voltage: 220 - 240 V
- Cable diameter: 5.0 - 10.6 mm / number of poles and marking: 3 L / N / PE
- Connection cross-section solid / finely stranded: 2,5 mm² recomended, 1,5 mm² min.
- Cable length to protrude from floor: 300 - 400 mm
- Connector Connection type: screw connection
- Protection class (IP) IP66/68 (3m;2h) /IP69
- Scheath Stripping length: 25 mm / Stripping isolation length: 8 mm

Screws Anchoring

Depending on the ground conditions, the appropriate anchoring of the Base and Duo-Base plinths must be given or created by a specialist.

- Type: Concrete screws, heavy duty anchors, threaded rods, concrete foundation
- Diameter: Max. 12 mm
- Washer: Ext.Ø 28mm (included in delivery)
- Drill Hole pattern: see drawing in Technical Data or assembly instructions
- Material: has to be stainless steel

Screws anti-theft protection

To prevent theft of bikes and bike racks in non-protected spaces, there are two options to prevent unauthorized disassembly:

1. Cover the screws' tool port with soldering (reversible option).
2. Use pin impact plugs (permanent option).

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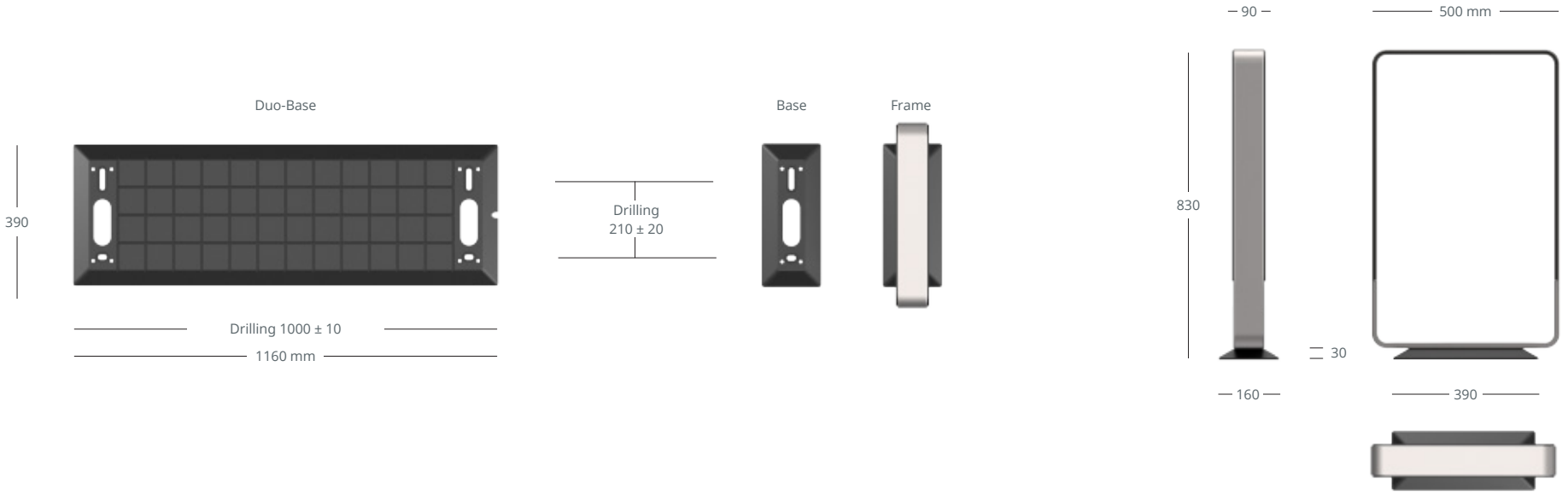
Technical data

Dimensions in mm, tolerances, drilling space for anchoring, Base & Duo-Base



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System Technical data

Parking station, E-Plug and E-Charger

Q-RACK Parking station

Parking space	2 bicycles
Material	Stainless steel 1.4301 (V2A)
Surface	Brushed stainless stee / powder-coated
Thikness	15 mm: 5 + 5 + 5 mm Sandwich
Dimensions	500 x 830 x 160 mm
Rubber	EPDM, 5mm, Sandwich exchangeable
Weight	Parkstation 18 kg
Base	1,6 kg POM milled, 10 mm drill-tolerance
Scope of delivery	Fram, Rubber, Base 4 safety screws stainless steel 2 wascher for anchoring
Corrosion resistance	Brushed Stainless steel: very good1.4301 (V2A)

Stainless Steel General Maintenance

For the colourless polished version, we recommend annual surface treatment with **stainless steel care products**.

In cities with aggressive air quality, rust can form on the surface after years. In case of rust formation **you can use abrasive fleece** to remove it.

DO NOT use steel wool! This will leave foreign steel residue deep on the stainless steel surface contaminating it with rust quickly.

E-Plug Tower

Charging space	2 x Schuko socket-outlets, other possible
Charger	None
Safety class	IP 44
Power supply	AC 230V, 2P+PE, max 14A
LED Light	Blue, 2.4W, AC, IP65
Dimensions	280 x 620 x 78 mm
Installation plug/socket	Included in delivery Wieland connector for cable diameter 5,0-9,5 mm
Corrosion resistance	Brushed Stainless steel: very good1.4301 (V2A)
Connection	Electrical connection by a qualified electrician in accordance with the relevant standards: : DIN VDE 0100, DIN VDE 0100-520, DIN VDE 0100-410, DIN VDE 0100-420, DIN VDE 0100-430, DIN VDE 0100-520, DIN VDE 0100-530
Attention!	Not suitable for use in rain without roofing Sockets
	not suitable for charging electric cars
International Standard	Europe **Standard** · US/Canada Possible · Britain Possible

E-Charger Tower

Charging space	2 x helix cable with plug by choice for E-Bike battery type
Charger	LiOn Smart Charger of ONgineer
Charging voltage	36V
Charging current	4A
Power supply	220-240 V
Input current	0,5 - 0,78 A
Operating temperature	-5 to 40°C
Safety class	housing: IP44 / E-Bike plug: no safety
LED Light	Blue, 2.4W, AC, IP65
Dimensions	280 x 620 x 78 mm
Installation plug/socket	Included in delivery Wieland connector for cable diameter 5,0-9,5 mm
Corrosion resistance	Brushed Stainless steel: very good1.4301 (V2A)
Connection	Electrical connection by a qualified electrician in accordance with the relevant standards: : DIN VDE 0100, DIN VDE 0100-520, DIN VDE 0100-410, DIN VDE 0100-420, DIN VDE 0100-430, DIN VDE 0100-520, DIN VDE 0100-530
Attention!	Not suitable for use in rain without roofing Shading required to prevent overheating of the charger.
Battery System Types	BOSCH, Yamaha, Shimano, Specialized, Ansmann, BMZ (BROSE, Rotwild, ...) and others
Plug Options	Bosch · Rosenberger · Yamaha · DC & more...

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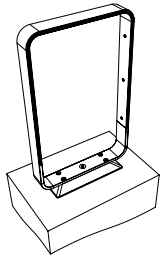
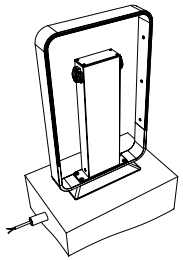


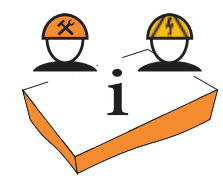


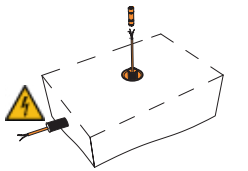
Assembly instructions

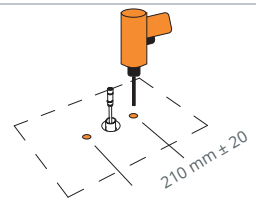
Assembly and electrification must be carried out professionally.

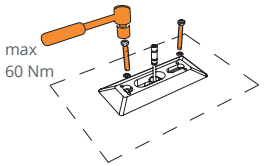
Park station Charging station

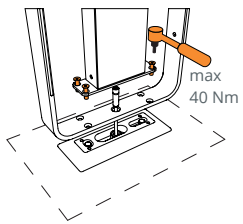
Step	Description	Check-Lis
1 Floor capture Preparation, planning	1. Depending on the nature of the ground, the appropriate anchoring of the Base Plinths (and Duo-Base Plinths) must be created by a professional. 2. Clarify with a technician which anchoring method is best suited for the planned location on the ground.	- Floor type / material ? - Screws ? Concrete screws / heavy duty anchors / threaded rods / wood screws,... (Not included in delivery) - Base or Duo-Base base? - With or without foundation? - Consider the lever load - Is the location easily visible? (for Pedestrians, cyclists, vehicles,...) - Take precautions with charging station, power cable routing and roofing
2 Power cable Lay cable * for charging station * and for Parking station with possible retrofitting	1. Lay the cable to connect the electrical charging station to the mains. 2. Connector confection	- Mains voltage: 220 - 240 V - Cable diameter: 5.0 - 10.6 mm - Number of poles: 3 / marking: 3 L / N / PE - Connection cross-section solid / finely stranded ideal 1.5 mm², max. 2.5 mm² - Cable length protruding from floor: 300 - 400 mm - Connector Connection type: screw connection - Protection class (IP) IP66/68 (3m;2h) /IP69 - Stripping length: 25 mm / Stripping length: 8 mm
3 Drill hole Anchoring for base	1. Depending on the ground conditions, the appropriate anchoring of the Base (and Duo-Base) must be created by a specialist.	- Hole pattern: 210 mm ± 20 mm tolerance - Watch wiring
4 Anchoring Fixing the base to the ground	1. Anchor the base to the floor with the appropriate screws. 2. In case of temporary use, after removing the station, use the base-lid to cover and rotect the plug with cap and cable which fits in the gap. Use the M10x25 countersunk screws for the Lid..	- Washer: Ext.Ø 28mm - Material: Stainless steel - Diameter: Max. 12 mm - Tightening torque max: 60 Nm - Allow cable length to protrude from floor: 300 - 400 mm
5 Fastening Rack and charging station	1. feed the charging station cable with plug through the bracket and connect it in the charging station. - The socket automatically locks when plugged in. - To disconnect the socket, the connector ring must be turned slightly counterclockwise to unlock. 2. screw down the leaning bracket and the charging station with the assigned M10 countersunk screws. 3. 3. do not exceed the maximum tightening torque.	- Position the cable and junction box avoiding cable bending stresses. - Fix the junction box using the screw connection. - Tightening torque plastic thread in base, max: 40 Nm - Tightening torque reinforced metal thread insert in base, max: 60 Nm - For Station: Use M10x40 countersunk screws - For Base-Cover (without station/charging station) use M10x25 countersunk screws Only in the case of Base with reinforced metal thread inserts, REACH information requirement: The metal thread inserts contain lead (Pb) above 0.1% by mass. **Disposal Directives (2008/98/EC): Do not dispose of in household waste! Metal, plastic and electronic parts must be disposed of separately at local collection points.**











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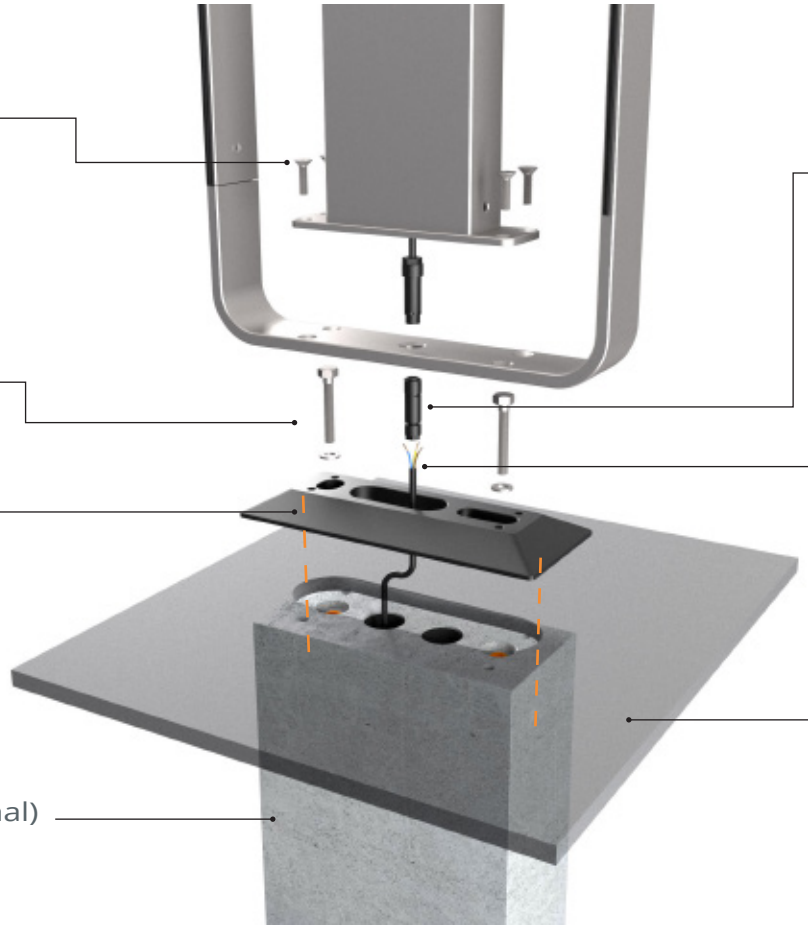
Assembly Installation

Depending on the ground conditions, suitable anchoring methods are possible



Screws assembly

- Screwing with four M10x40 mm stainless steel screws
- Torque: Max 40 Nm

Screws Anchorage

- Two stainless steel screws Ø 10-12 mm (not included)
- Washer: Ext.Ø 28mm (included)

Base stand

- Can be driven over by car
- Caution: Danger of tripping!
- Make sure that no objects get into the screw holes.

Concrete foundation (optionional)

- Dimensions: 700 x 350 x 170 mm
- Weight: 107 kg
- Make sure that no objects get into the screw holes
- Screwing with two stainless steel screws (M12x(45mm+flooring depth)
- Torque: Max 60 Nm

Connector assembly

- See mounting instructions «Wieland RST16/3 46.031.4553.1».
- Connection type: Screw connection
- Protection class (IP) IP66/68 (3m;2h) /IP69
- Protective cap for passive use

Power connection

- Mains voltage: 220 - 240 V
- Cable diameter: 5.0 - 10.6 mm / number of poles and identification: 3 L / N / PE
- Connection cross-section: solid / finely stranded 2.5 mm²
- Cable length from floor: 300 - 400 mm
- Stripping length: 25 mm / Stripping length: 8 mm

Flooring

- Stone paving, tiles, paving slabs
- On meadows, directly on the foundation

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Fastening safety & anti-theft solutions

prevent unauthorized disassembly & theft of the rack in non-protected spaces

Fastening screws
frame-base fixation

- Four M10x45 stainless steel screws (Included)

Anchoring screws (Not Included)
base-ground fixation

- Two Ø 10-12 stainless steel screws (Not Included)
- Two Washer: Ext.Ø 28mm (Incuded)

Standard
M10 Screw inbus
Standard bit pin inbus

Standard Security
M10 Screw inbus with guard pin
Safety bit pin inbus socket with hole

St.+Soldering
The screws' tool port can be covered with soldering tin
reversible option

St.+Pin impact plug
Press plug in the inbus socket
permanent option

Lock Bolts
Maximised protection thanks to coding systems

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