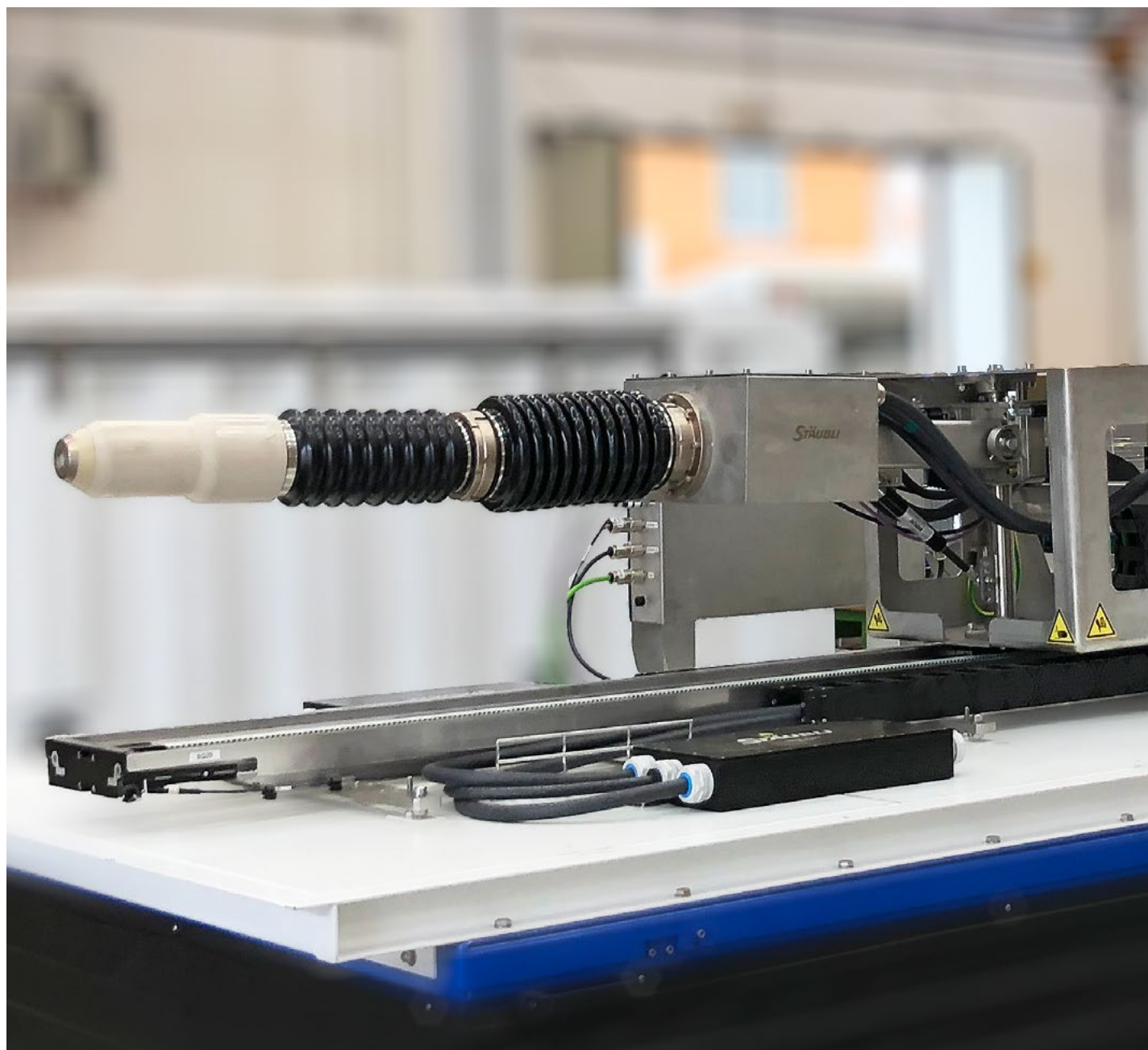


Automated rapid charging connector QCC

Quick reference guide

EN



SCOPE OF SUPPLY

Generic site layout

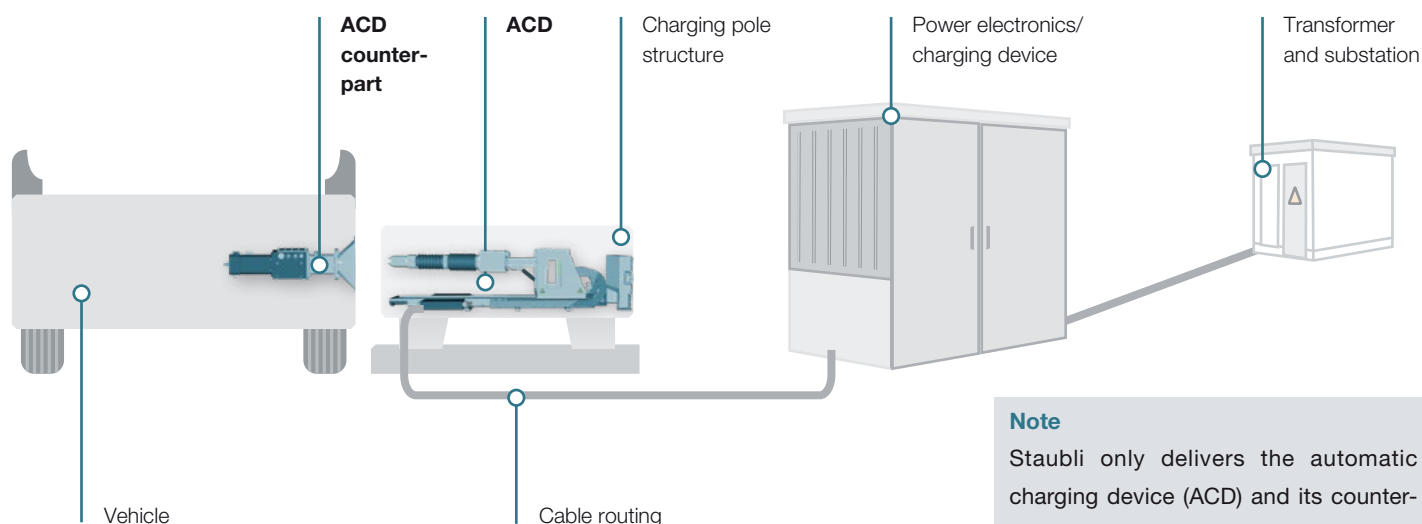
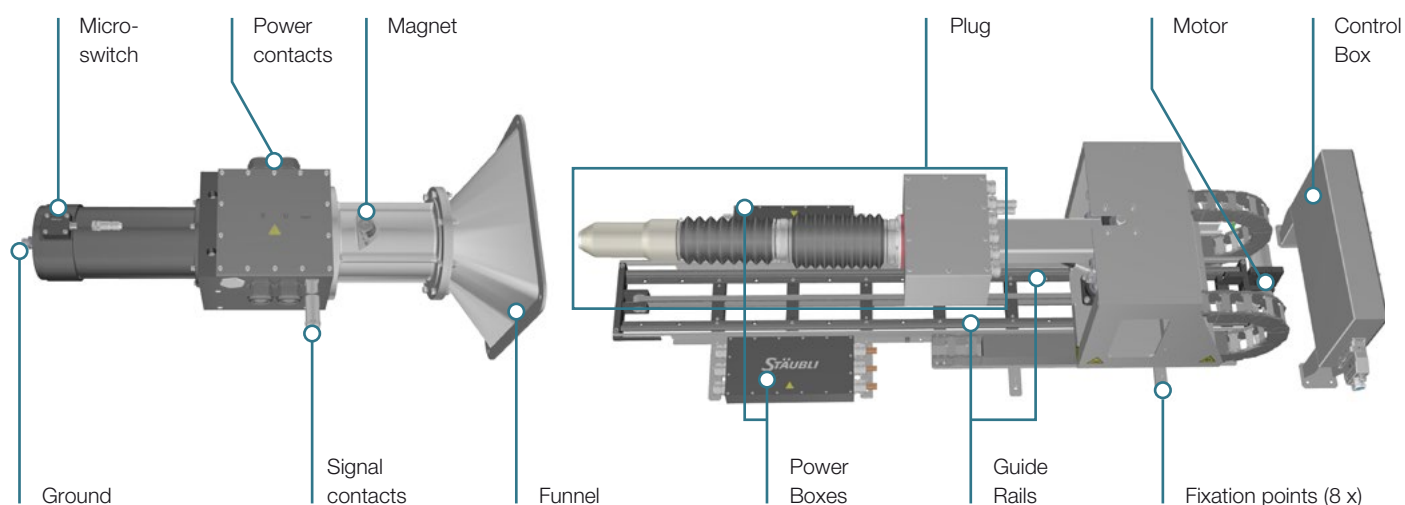


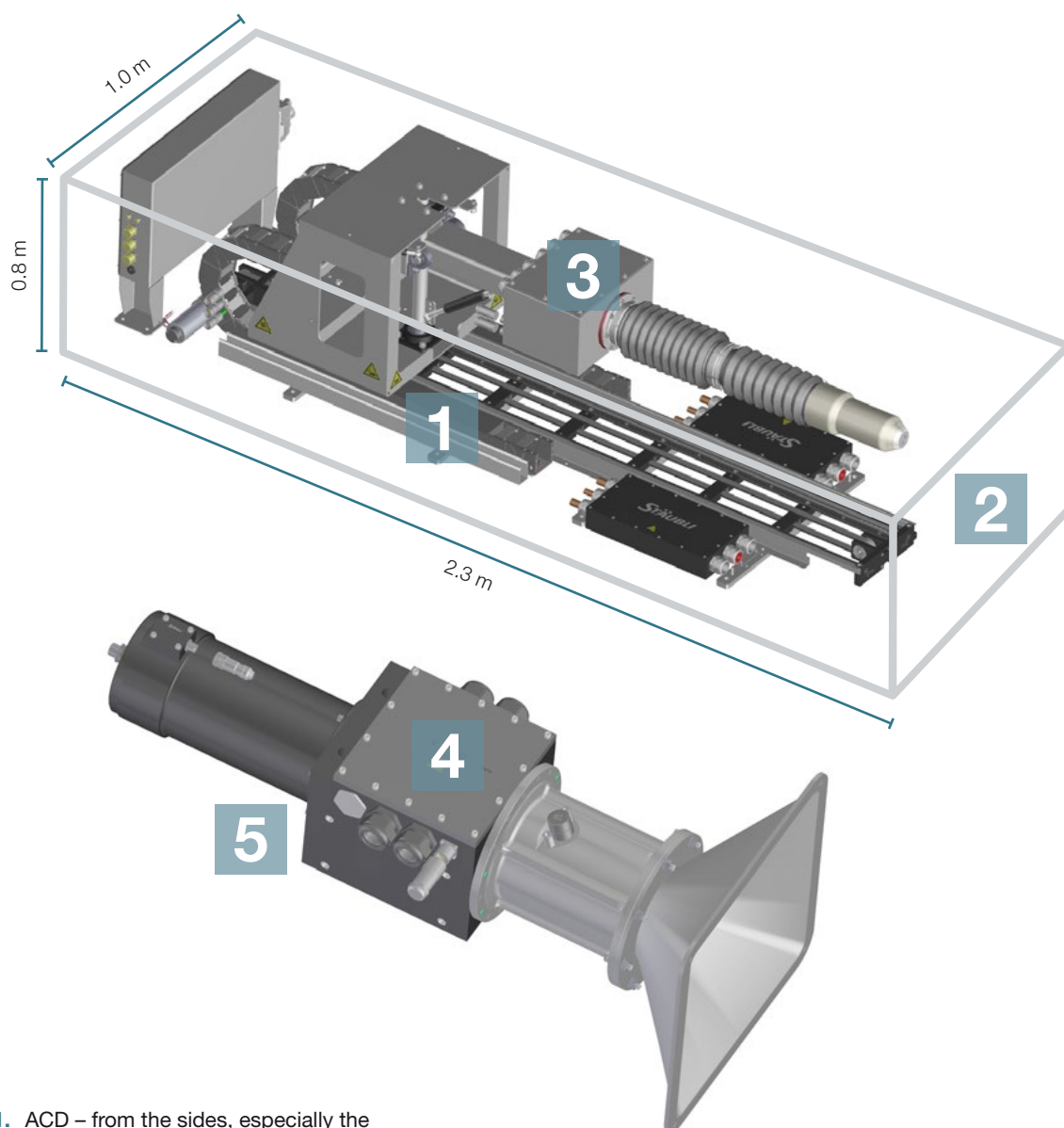
Illustration ACD and socket w/sub-parts



Space and mounting

The QCC-ACD is intended to be placed inside of an enclosure. The enclosure shall have the minimum dimensions

shown below for the ACD and access for maintenance is described by the 5 positions shown.



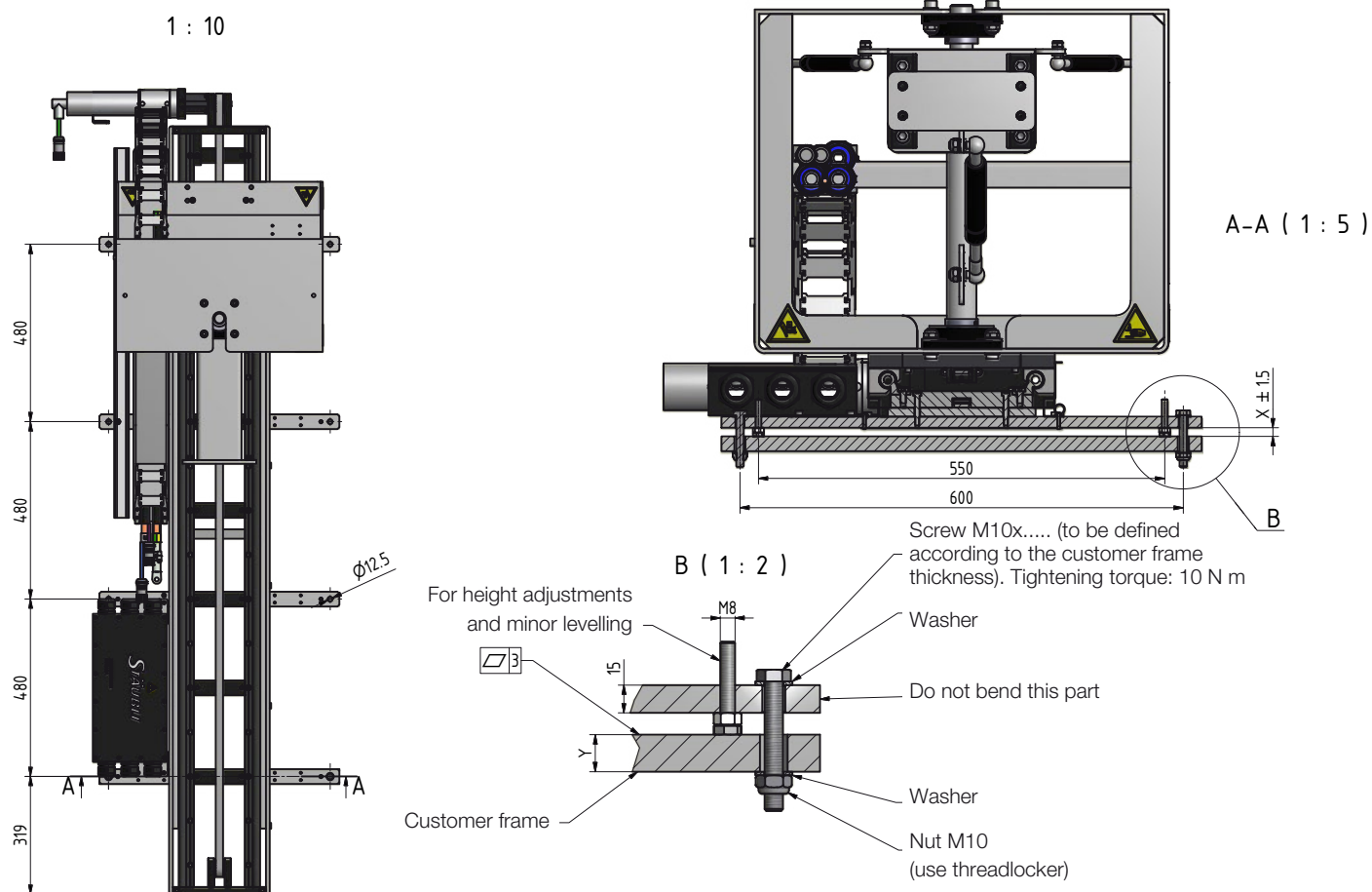
1. ACD – from the sides, especially the side of the power box.
2. ACD – from the front, this needs to be open for mating as well.
3. ACD – from the top.
4. Socket – from the top
5. Space to turn wrenches (both sides)

Note

Make sure to plan cable routing with minimum bend radius according to manufacturer recommendation.

DIMENSIONS

QCC – ACD

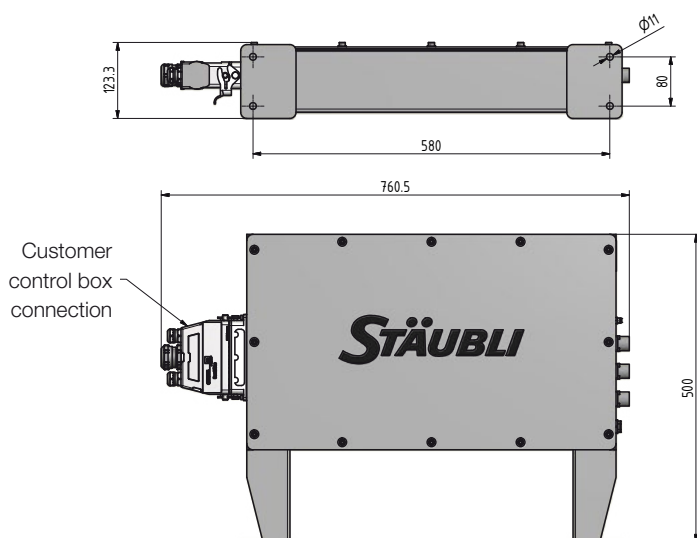


Note

*Sketches show QCC2 ACD.

QCC3 comes with 2 Power boxes

Control box



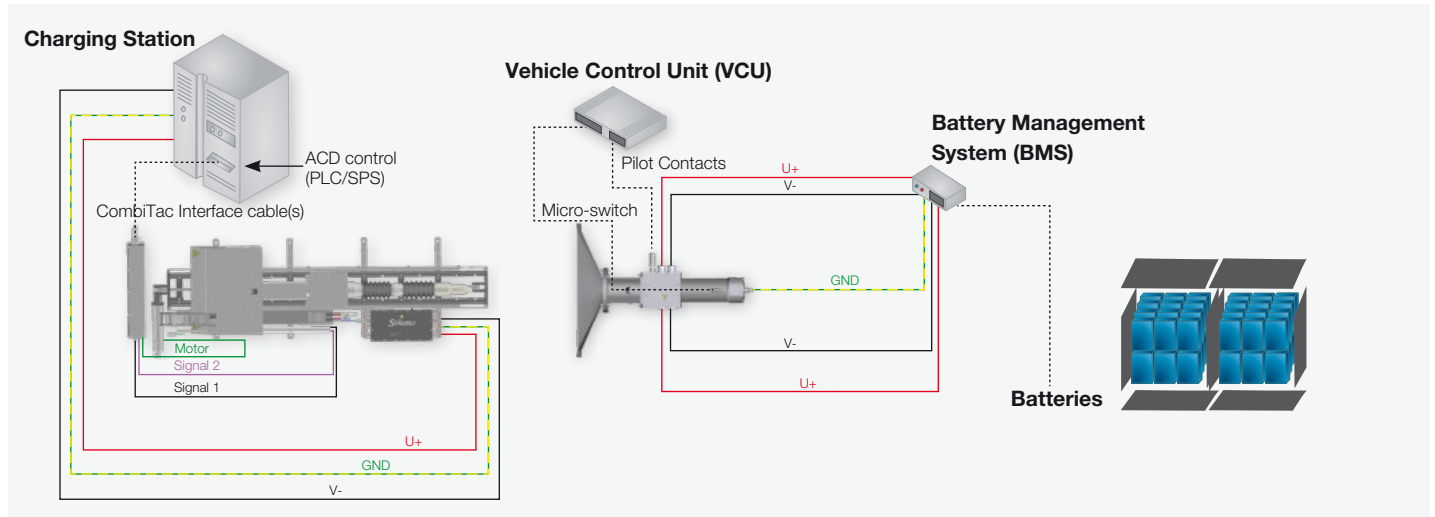
Note

The control box can be installed up to 2 m away from ACD.



Infographics with wiring details

QCC2



Power Lines U+/V-/GND

Up to 95 mm²/Outer-Ø 10 mm – 32 mm
Class 5 or 6 stranding recommended

CombiTac interface cable

Signals (3 twisted pairs): 0.25 mm² – 0.75 mm²
I/O (up to 30 wires): 0.5 mm² – 1.5 mm²
Motor power (3 wires): 2.5 mm² – 4 mm²

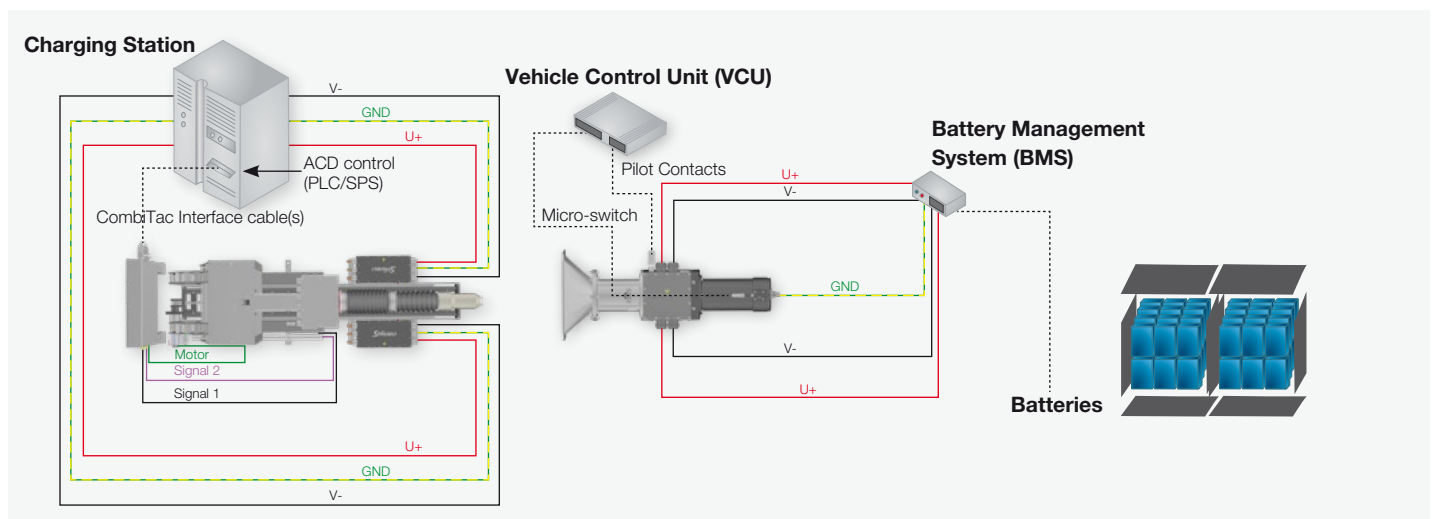
Pilot contacts (socket side)

Up to 6 wires: 0.14 mm² – 1 mm²

Micro-switch

Up to 4 wires: max. 0.5 mm²

QCC3



Power Lines U+/V-/GND

Up to 120 mm²/Outer-Ø 10 mm – 32 mm
Class 5 or 6 stranding recommended

CombiTac interface cable

Signals (3 twisted pairs): 0.25 mm² – 0.75 mm²
I/O (up to 30 wires): 0.5 mm² – 1.5 mm²
Motor power (3 wires): 2.5 mm² – 4 mm²

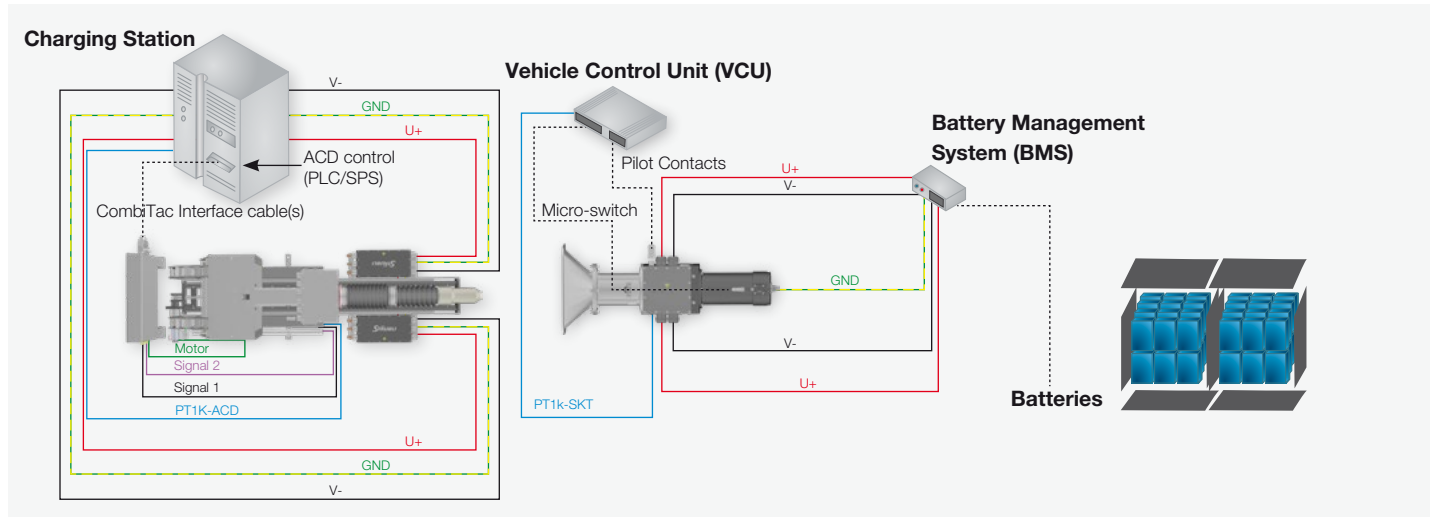
Pilot contacts (socket side)

Up to 6 wires: 0.14 mm² – 1 mm²

Micro-switch

Up to 4 wires: max. 0.5 mm²

QCC3 + Temperature sensor



Power Lines U+/V-/GND

Up to 120 mm²/Outer-Ø 10 mm – 32 mm
Class 5 or 6 stranding recommended

CombiTac interface cable

Signals (3 twisted pairs): 0.25 mm² – 0.75 mm²
I/O (up to 30 wires): 0.5 mm² – 1.5 mm²
Motor power (3 wires): 2.5 mm² – 4 mm²

Pilot contacts (socket side)

Up to 6 wires: 0.14 mm² – 1 mm²

Micro-switch

Up to 4 wires: max. 0.5 mm²

PT1000 Temperature sensor cable

PT1K-ACD side: 3 wires 0.75 mm² – 2 mm²
PT1K-SKT side: 3 wires 0.14 mm² – 1 mm²

Programmable Logic Control (PLC)

In order to drive the ACD, a PLC will need to be programmed and connected via the CombiTac Interface Cable to the Stäubli Control box. The connection is made via dry contacts and the system is driven by closing

the circuit. Opening the circuit returns the system to the home position. A more detailed presentation is usually made during the first consultation with the Stäubli engineer who will commission the system.

Commissioning and service

Each ACD shall be commissioned by Stäubli personnel to ensure that it is properly integrated and works from day one. There is a line in the quote for this service and upon placing your order, you will be put in contact with someone from the Stäubli Service

Team who will:

- Assist in preparations for installation.
- Answer questions about the system to facilitate integration.
- Schedule a site visit when the time is near for commissioning.



● Stäubli Units ○ Representatives/Agents

Global presence of the Stäubli Group

www.staubli.com