



SUCCESS STORY

Creating urban mobility with the right connection

The global traffic situation is changing rapidly. Mobility continues to increase as more and more people and goods move across cities and around the world. This leads to environmental pollution, traffic collapses and noise. New paradigms are needed to change this. This includes, for example, urban delivery services as well as public authorities and private commuters who are rethinking their mobility behavior thanks to the introduction of new technologies and solutions.

One of these providers of new solutions is Silence. This young and dynamic Spanish start-up company designs and produces innovative electric motorcycles. Supported by a team of professionals with experience in motor sports, engineering, mechanics, electronics and design, the company's aim is to end the problem of air pollution caused by millions of motorbikes and offer a real

sustainable driving alternative with electric scooters. Following an intensive research and development phase, Silence has designed a new generation of electric scooters – with a driving range of over 70 kilometers per battery charge. Currently, Silence is active in countries all over Europe and expanding internationally. Thanks to Silence, delivery services, scooter sharing providers and police fleets are now on the move in an environmentally friendly way.

The business needs

The start-up's dream was to develop an emission-free and noiseless scooter for more convenient city traffic. Furthermore, the bike is supposed to be easy to handle for the drivers.



Market Segment: E-Mobility



Industrial Connectors: CombiTac

Application: electrical connection between battery and motor

- Vibration resistant
- Easy handling
- High number of mating cycles
- High performance



The challenge

One of the special features of all the Silence electric motorcycles is the removable, yet powerful battery. Therefore, a robust connector solution is required that ensures a safe and quick plugging and unplugging of the battery pack on the scooter.

The solution

In close collaboration with Silence, Stäubli evaluated which CombiTac solution with which end pieces would work best for all different e-scooter models. The jointly defined configuration guarantees a solid connection solution with the necessary signal and power contacts and at the same time provides high reliability and the required performance.

The added-value provided

Thanks to the Stäubli connector solution, charging the battery is very simple. Within seconds, the battery pack can be removed. The convenient trolley system allows

a handy transportation and the battery can be plugged in and charged at any normal power outlet.

Thanks to the reliability of the Stäubli product solution, Silence can guarantee its customers a safe and reliable power supply for the electric scooter which facilitates smooth driving operation without failures.

Customer benefits

- Joint evaluation with standard product
- Safe and reliable connection for seamless operation
- Quick and straightforward connections of the battery by the end user

About Stäubli

Stäubli is a global mechatronics solution provider with three core activities: Connectors, Robotics and Textile. The international Group has a presence in 29 countries.

Stäubli Electrical Connectors is a specialist for advanced contact technology and technically mature solutions with a product portfolio ranging from miniature connectors up to high-power connectors for various industries.

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