### Press release Reutlingen, January 2018

**Measurement fixturing system for impedance measurement on battery cells**

**Round cell adapters for the simple and safe battery contacting for quality testing.**

The Stuttgart BRS Messtechnik GmbH stands for innovative and universal battery testing technology. The Reutlingen company dk FIXIERSYSTEME together with BRS has developed the requisite hardware: The RZA round cell adapter that makes the handling of batteries for testing ergonomic, reliable and extremely rapid.

Intelligent battery testing technology is constantly and rapidly becoming more important with topics such as electromobility, power tools, buffer memory, emergency auxiliary power and other applications still in developement where battery cells are used in equipment. The testing technology from BRS is characterised by absolutely precise impedance measurement through four-wire measurement technology. Of course, capacity measurements of round cells using four-wire contacts is also possible. They ensure reliable values independent of the battery technology and make the testing system universally applicable. Core properties such as the availability of the energy from a power storage in the respective application are just as much tested, documented and communicated as the serviceability of a battery during developement and testing or the quality during manufacture. Using the BRS system, the diagnosis is quick and extremely precise.

The entire testing technology together with the required software and comprehensive service is available from BRS GmbH. The management of this testing technology specialist has explicitly remarked that a system is only as good as it can be used in practice. This includes a handling system where the battery cells are positioned and held during testing with the following requirements:

* Simple and secure operation: Only one hand is required to operate the adapter so that the other hand is free to handle the battery.
* Precise repeat positioning of the battery, so that the spring loaded contact of the testing system contacts the cell pole exactly with an adjustable pressure within dimensional tolerances.
* Stable positioning and holding the battery during the testing process.
* Complete electrical isolation of the battery to prevent fault currents.
* Clearly visible coloured markings to indicate where the plus pole is positioned.
* Simple adjustment to suit the various battery lengths and diameters or geometries.
* Captive adapters for 2 different cell diameter ranges
* Future-assurance through the possibility to adjust to other battery diameters.
* Clear structure, safe cable routing, hardwearing surfaces, good design and ergonomics

BRS found the competence for the developement and production of such a handling and holding system at dk FIXIERSYSTEME GmbH & Co. KG from Reutlingen, Germany. dk is mainly known in the branch for its measurement fixation technology for optical and tactile measuring. Many prominent companies also use the extensive know-how of dk to develope arbitrary fixation systems for secure holding and handling in entirely other applications.

* Electro technology / Electronics
* Dispensing technology / Gluing and sealing
* Labelling technology / Coding
* Handling / Assembly

Advantages and USP of this Reutlingen company: Not only does dk have in-depth experience as well as the developement and production capacity, it also has a standard range of ca. 1000 clamping and holding products from which specific configurations can often be realised even without the need for custom-made items.

The rest is quickly portrayed: The project was jointly drafted by BRS and dk. The specifications were compiled. A prototype was manufactured and further optimised. After a reasonable development period the round cell adapter was ready for the market in January 2018.

**Number of characters**

Signs: 3.790 characters

Words: 559 words

**A short profile about dk FIXIERSYSTEME**

The core expertise at dk FIXIERSYSTEME focuses on modular clamping designed specifically for measuring technology.

Active in this sector since 1972, the dk team began working with fixturing technologies from an early stage and has further developed this range of products over the course of time. Today, the product range encompasses ca. 1.000 products which can be freely combined and therefore form a modular system. Users who work with dk technology regularly confirm that the possibility to combine modules flexibly and the durability of the elements guarantee a precise measurement result with a continuous workflow.

*dk FIXERSYSTEME: modular. simple. better.*

**Contact for handling**

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Image 1: **Round cell adapter RZA with handling and holding system from dk**

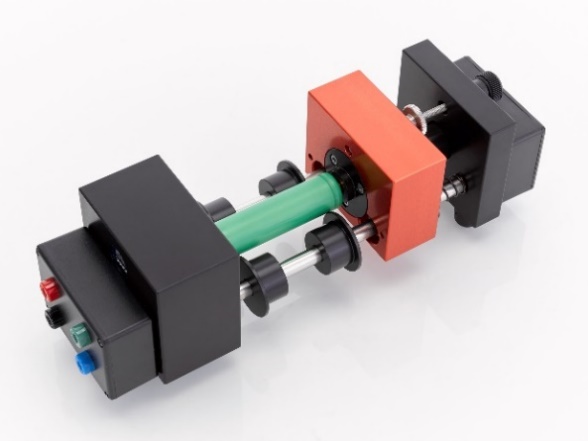
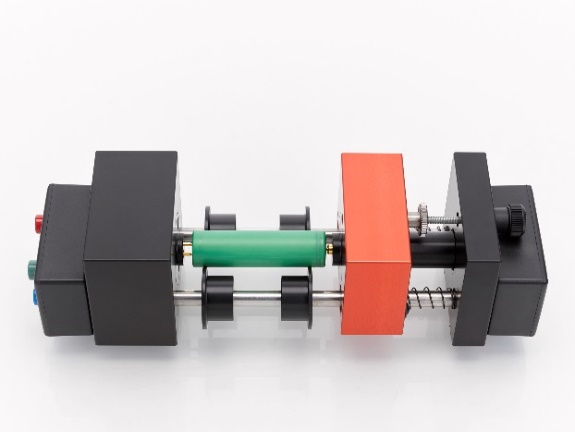


Image 2: **Complete battery testing system**



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