



Zollner Electronics GmbH
is a Production Partner for
High-value Medical Tech-
nology Products

System supplier for sophisticated devices in Medical Technology

Zollner Electronics GmbH is producing a portable Spirometer Device for ndd Medizintechnik AG.

According to global estimates, more than 250 million people suffer from the pulmonary illness of COPD (Chronic Obstructive Pulmonary Disease). This chronic, obstructive lung disease, which appears in smokers (and former smokers), is worldwide the third most frequent cause of death. It is forecasted that the number of people with COPD and pulmonary illnesses in general will increase in coming years. This is mostly due, for example, to increasing contamination of the air we breathe, pollutants in large cities, cooking inside with open flame and very directly from smoking.

ndd Medizintechnik AG, a global leader offering devices for pulmonary function testing (spirometry), has set a goal of detecting COPD at an early stage because the possibility of early diagnosis can make a significant contribution to enlightening the general public and creating awareness. Many of those suffering the symptoms have yet to receive a factual diagnosis because the significance of early detection of respiratory illnesses is not yet anchored in public awareness due to a lack of education and information.



Mr. Marcel Scherrer,
Supply Chain Manager,
ndd Medizintechnik AG

Developed for that reason by ndd Medizintechnik AG, the EasyOne Air product is meant for widespread distribution and detection of COPD and other respiratory illnesses. Because the core expertise of ndd Medizintechnik AG lies in the development and marketing of devices for pulmonary function testing, production of pulmonary function testing devices has deliberately been outsourced to a system supplier. This focus on their core competencies provides a clear competitive advantage for ndd Medizintechnik AG because it allows them to concentrate on new, innovative solutions for the market.



EasyOne Air, Portable
& PC spirometer

The demands placed on system suppliers here are very stringent - along with actual production according to detailed product requirements and specifications also comes command of the entire supply chain from purchasing, supplier support, logistics and all the way to providing support for validations, etc., while adhering to all regulatory requirements (ISO 13485, FDA, GDP).

In order to integrate the system supplier at the earliest possible stage, benchmarking was already started by Marcel Scherrer for the EasyOne Air product (image x) in 2017. Due to the generally stringent demands of medical technology and the quality requirements for global distribution placed on ndd in particular, very few companies were able to be considered. In addition to those requirements, the costs of the serial devices were put to the test. Those decisively influence the goal of widespread, worldwide marketing.

"Benchmarking was successfully completed. Zollner Electronics GmbH met all of our criteria and has been awarded the contract for this product", said Mr. Marcel Scherrer, Supply Chain Manager at ndd Medizintechnik AG.

Zollner Electronics GmbH fulfills the stringent requirements

Alongside highly professional electronics production, device assembly according to the Lean philosophy with Kanban supply plays a decisive role because it guarantees economically viable, value stream-oriented production all the way to provision in its final packaging for shipment. With EN 13485 certification: since 2016, the Hombrechtikon location of Zollner Electronics GmbH has been perfectly set up for the entire production process, starting from electronic PCBs and continuing on to complex mechatronic systems for the stringent requirements placed on medical technology production and can look back on long standing experience. Additionally, the plant in Hombrechtikon is an FDA approved production site for medical devices in accordance with US American regulations, thus offering ideal preconditions for the manufacture of products for medical technology that are intended for international distribution.

Corresponding with customer requirements, Zollner Electronics GmbH offers comprehensive EMS services from one source; from research & development, prototypes & serial production to after-sales services. Here the customer decides on the process depth needed or the depth they wish to take advantage of - this takes place in the form of consultation and support and all the way to autonomous implementation. Thus, along with the experience surrounding production of medical technology products, customers can fall back as needed on other services, like executing product and supplier qualification, validation and certification.



EasyOne Air production site



Mr. Jan C. Baitella, New Business Development Manager, Zollner Electronics GmbH

One example of this comes from Jan Christoph Baitella, New Business Development Manager of Zollner Electronics GmbH, for production of EasyOne Air devices:

"Especially in the case of medical devices that directly influence the well-being of patients or the provided diagnoses, if there are any suspicions of deviations from specified values, for example, all affected devices must be able to be quickly and efficiently located. Traceability of utilized electronic and mechanical components is decisive in this context. Adapted to customer requirements, we can provide this in graduated depth using special software tools. With the EasyOne Air device, for example, the device with its associated rechargeable battery and docking station are tested, calibrated, registered and released in a special testing device during final testing and inspection. The unique serial and

lot numbers of the device, rechargeable battery and docking station are simultaneously recorded with a scanner and allocated. Calibration values are transmitted to the device and the data record is documented and archived. This data is made available to ndd Medizintechnik AG for quality monitoring and can be linked at any time with the production data of each production lot."

ndd Medizintechnik AG Customer Satisfaction is the first priority of Zollner Electronics GmbH

"We at ndd Medizintechnik AG are very satisfied with the services from Zollner Electronics GmbH. The Customer Focus Team at Zollner directly supported us in our research and development projects with great professionalism. Our development engineers received active support and relief from them in readying our products for serial production and validation. Even the conversion into serial production went without issue and very efficiently", Marcel Scherrer further concluded.

"We are very pleased that we have been able to gain ndd Medizintechnik AG as a new customer with our expertise in the Medical Technology sector" - Jan Christoph Baitella is also excited about the successful collaboration and emphasizes: "At Zollner Electronics GmbH, the needs of the customer are our first priority. We want our customers to feel complete satisfaction and will support them throughout the entire lifetime of the product. As part of an internationally active Zollner Group, we can offer our customers local and globally competent consultation and technical support all the way through after sales services. Therefore we are very happy about the trust placed in us by ndd Medezintechnik AG - it gives us motivation and the impetus for constant improvement of our services to our customers."

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Company Profile ndd Medizintechnik AG



new diagnostic design

For more than 20 years, ndd Medical Technologies has created solutions that improve early detection of chronic lung diseases, including COPD and asthma. Today, ndd Medical Technologies offers unique spirometry and PFT device solutions that are available in more than 100 countries around the globe.

www.ndd.ch

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Company Profile Zollner Electronics GmbH



As a Swiss EMS company (Electronic Manufacturing Services) within the Zollner Group, Zollner Electronics GmbH has been offering electronic and mechanical service solutions across the entire product lifecycle since 2013 at its Hombrechtikon location. The entire enterprise is characterized by customer-oriented solutions and local customer intimacy.

With highly qualified and motivated employees, simple to highly complex electronic PCBAs and everything from modules to mechatronic devices and systems are produced at the order of the customer. This is typically in the Low Volume / High Mix range and for the Industrial Technology, Measurement Technology, Medical Technology and Laboratory Automation.

Zollner Electronics GmbH has been certified for ISO 9001 (quality management), ISO 14001 (environmental management), EN 13485 for Medical Products and fulfills all statutory FDA regulations.

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