

EMSPIRA 3 DIGITAL MICROSCOPE

Interview with Andreas Walser

“The simple way in which we could reliably and accurately document our work with Emspira 3 convinced us to buy the microscope.”

Andreas Walser, CEO / Founder, esp-engineering gmbh, Switzerland



When Andreas Walser founded esp-engineering in 2006, he wanted to connect maximum technical product quality with creativity and innovative thinking. Evolving current products and processes as well as finding new, groundbreaking solutions, has driven the entire company ever since its foundation. The Swiss company uses an Emspira 3 digital microscope and Andreas Walser explains why they chose it for their work with customers on development of prototypes and production processes.

Please describe what esp-engineering does.

At esp-engineering, we offer services to customers who wish to develop and improve equipment, products, production processes, as well as other processes. Customers come to us if there is no solution available in the market.

Which industry sectors do you cover?

We work with customers in the areas of lithography for semiconductors, nanoimprinting, RFID (radio-frequency identification) tags, coatings, separations, and wire and die bonding. Often, we

develop prototypes with our customers and recommend ways of efficient production. We do not do mass production, but rather work with customers to improve prototype development, processes, and products.

Which role does microscopy play at esp-engineering?

Over the years, the sizes of the samples and structures our customers work with have decreased. As a result, we needed to start using microscopy regularly, as it was the only option to make reliable measurements at the always smaller scale.

When working on the development of prototypes and production processes, a report of the work has to have all the important details which are documented with data and images. If we find issues and suggest improvements to the current situation, they will be noted in the report.

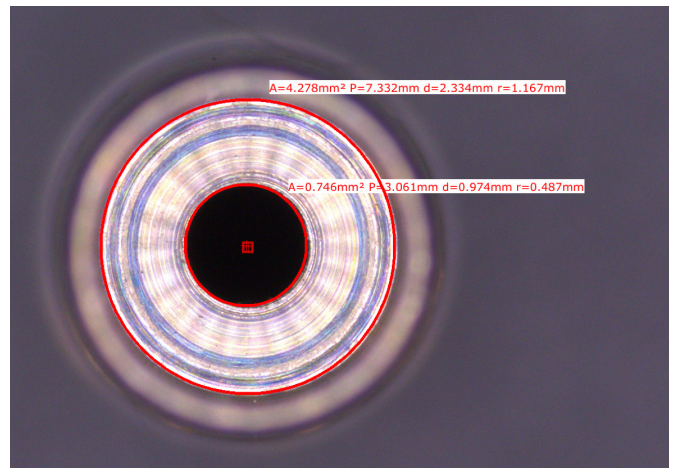
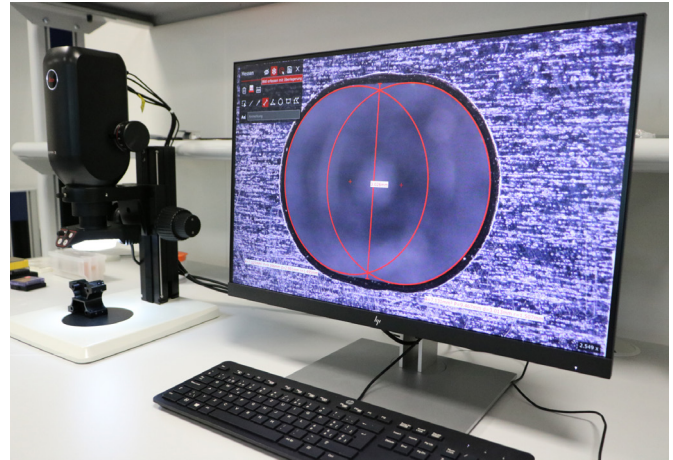
You recently obtained an Emspira 3 digital microscope. What do you use it for?

We use the Emspira 3 for evaluation and inspection when working on customer projects for things like development of prototypes and production processes. In the past, we had recorded digital images of devices and products with a standard camera and made measurements and created documentation with a computer app. Gradually, reliable measurements and documentation at smaller size scales became an important requirement for our work, so we had to start working with microscopes which had cameras. The simple way in which we can reliably and accurately document our work with the Emspira 3 digital microscope and its encoded zoom optics really caught our attention.

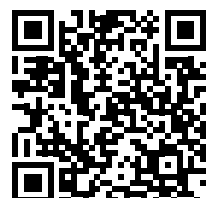
Are there specific functions or features of the microscope that you particularly appreciate and convinced you to buy it?

We often use the large overview and ability to zoom in fast, as this allows us to find and see all defects on samples immediately. The encoded zoom optics helps us to obtain accurate results. We also appreciate quickly recording images and making them easily available for documentation in reports to our customers.

The performance and advantageous price of the Emspira 3 digital microscope, with its ease of use, measurement capabilities, and stand-alone mode usage without a computer, were the advantages that convinced us to buy it.



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