

**POWTECH 2017 Exhibitor Preview**  
**Sept. 26-28**  
**Germany**



### **WORK Microwave — Hall 3, Booth 3-124**

In the pharmaceutical industry, quality control is critical. If the moisture level of pharmaceutical pills or capsules is wrong, it can negatively impact business operations, causing waste and lost revenue.

At POWTECH 2016, WORK Microwave will demonstrate a powerful range of sensor solutions that accurately measure moisture, mass, and density, as well as foreign particles of powder, granules, and bulk solids, showing how its sensors meet the demanding requirements of the pharmaceutical industry. WORK Microwave sensor solutions offer superior speed and precision, making them perfect for inline production applications. By optimizing product quality and production safety, the sensors assure quality control in any manufacturing environment.

### **Key Products and Technology Demonstrations**

#### **High-Speed Mass Measurement for Tablets Demonstration**

WORK Microwave will demonstrate a new sensor system that takes high-speed inline mass measurement of tablets and other smaller objects at POWTECH 2017, with measurements of up to 100,000 tablets per hour. Offering easy integration into modern tablet presses, the advanced measurement system processes tablets without any special treatment or requirement for a guide system, streamlining manufacturing operations. Thanks to an enhanced sensor design, pharmaceutical manufacturers no longer need to separate tablets and measurement scales; the sensor can be mounted directly onto the assembly line, continuing the flow of the tablet production.

WORK Microwave's measurement process is totally seamless and accurate. The mass is taken while the tablet is moving through the microwave sensor at a rate down to 10  $\mu$ s, which means that manufacturers can measure tablets during free-fall conditions. Tablets can pass by the sensor in any order; precise orientation is not needed.

Based on a flexible, modular design, the sensor system can easily be adapted to meet different measurement requirements, such as measuring large tablets or those with special shapes. The system consists of a control box containing the complete measurement electronics and high-speed data processing, along with the passive microwave sensor.

#### **Filled Capsule Measurement Demonstration**

When it comes to filling pharmaceutical capsules, the manufacturing process has to be precise. WORK Microwave will demonstrate its specialized high-speed control and measurement sensor for capsules and tablets at POWTECH 2017, featuring a microwave sensor adapted to the size of the capsule. Using this system, pharmaceutical manufacturers can measure a large quantity of capsules as they pass under the sensor in free fall or are transported by a pressurized system. The small size of the sensor ensures easy integration into existing production

machines. With this system in place, a measurement rate of more than 100,000 capsules per hour can be achieved.

**Photo Link:** [www.202comms.com/WorkMicrowave/WorkMicrowave-High-Speed-Tablet-Sensor.JPG](http://www.202comms.com/WorkMicrowave/WorkMicrowave-High-Speed-Tablet-Sensor.JPG)

**Photo Caption:** WORK Microwave High-speed Tablet Sensor

**Photo Link:** [www.202comms.com/WorkMicrowave/WorkMicrowave-High-Speed-Capsule-Sensor.JPG](http://www.202comms.com/WorkMicrowave/WorkMicrowave-High-Speed-Capsule-Sensor.JPG)

**Photo Caption:** WORK Microwave High-speed Capsule Sensor

**Link to Word Doc:** [www.202comms.com/WorkMicrowave/170913WORKMW.docx](http://www.202comms.com/WorkMicrowave/170913WORKMW.docx)

## **Company Overview:**

### **About WORK Microwave ([www.work-microwave.com](http://www.work-microwave.com))**

Headquartered in Holzkirchen (near Munich), Germany, and comprising four operating divisions, including Satellite Technologies, Navigation Simulators, Defense Electronics, and Sensors and Measurement, WORK Microwave leverages more than 30 years of microwave and signal processing experience to anticipate market needs and apply an innovative and creative approach to the development of digital signal processing technologies while maintaining the highest standards for quality, reliability, and performance.

WORK Microwave's Sensors and Measurement division develops and manufactures high-precision sensor solutions for a wide range of measurements and applications used by the food, pharmaceutical, automotive, recycling, chemical, paper processing, and tobacco industries.

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#### **Agency Contact:**

Anna Bandurska

202 Communications

Tel: +31 646 852 080

Email: [anna@202comms.com](mailto:anna@202comms.com)

#### **Company Contact:**

Lisa Hayes

Marketing Communications Manager

Tel: +49 8024 6408 25

Email: [lisa.hayes@work-microwave.com](mailto:lisa.hayes@work-microwave.com)

#### **WORK Microwave**

Raiffeisenstrasse 12

Holzkirchen, 83607

Germany

[www.work-microwave.com](http://www.work-microwave.com)