

## Best Practice

### Automatic Determination of Target Moisture in Fluid-Bed-Processes

Monitoring the moisture throughout a fluid bed drying process enables the operator to determine the end-point of the drying process precisely without multiple interruptions and without taking several samples to the lab.

A well-known customer who is doing business on a global level calculated that with being able to turn-off the FBD precisely he would save EUR 50,000 per FBD p.a. and earn additional EUR 90,000 per FBD p.a. as he is able to increase capacity by 6% resulting in additional 300 hours of production p.a.

In the new world of continuously production (conti vs. batch) the operation without inline moisture control is not advisable.

### Measurement of Empty Capsules

A global pharma market leader applies TEWS to measure the moisture of empty capsules. The possibility to transfer calibrations from one system to another, the long-term stability of calibrations and the fact that our results are independent from external factors like atmospheric pressure, temperature, light etc. convinced the customer.

For more than 20 years he is using our systems as a worldwide standard with uniform calibrations and systems. Thus, the number of variables which can influence the measurement is reduced to a minimum.

### High-Speed-Dosing With TEWS

We can help you to simplify the dosing of granules or powders significantly compared to conventional dosing applications.

The density measurement functionality allows us to measure not only the moisture but also the mass flow. With valves you can stop a flow of granules or powder after a pre-specified mass has run e.g. into a capsule. This is possible down to as far as 10mg.

This enables you to ensure that each and every capsule is filled correctly and the weight and ingredients meet specifications 100%. Besides that with up to 40,000 measurements per second we are much faster than any mechanical balance.

### Areas of Application

Raw Material

Powders

Gelatin Capsules

Tablets

Oil Filled Capsules

Micro Dosing

## Advantages of Microwave



Moisture and density measurement



Measurement of core and surface moisture



Simple and longterm stable calibration



Independent of dust or dirt



Helps to reduce CO<sub>2</sub> footprint



Short ROI



ATEX protection possible



Industry 4.0 ready



Online-Cloud-Based support



Worldwide Service

For any inquiries please contact:



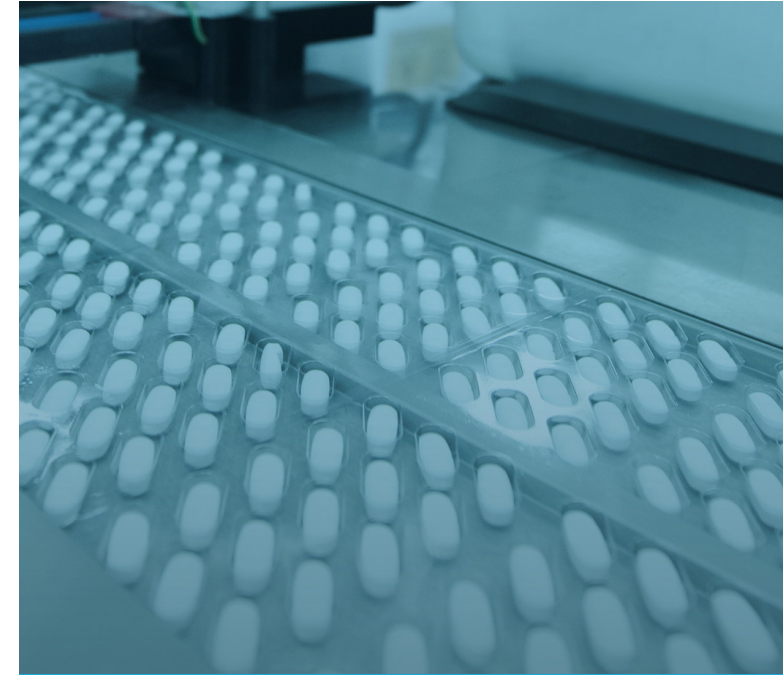
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**TEWS**  
MEASURABLY BETTER



**Pharmaceutical Industry  
As a Partner.**

HIGH PERFORMANCE SOLUTIONS



Your production process combined with our patented solutions. The result: the most accurate data about the moisture & density of your products.