

## Best Practice

### Inline Measurement at Corrugators

In order to achieve the highest quality corrugated board, balancing the moisture content of the liner papers is crucial. TEWS' sensors are able to accurately "see" moisture variations and to provide precise, reliable and density-independent moisture feedback. Moreover, the measurements are not limited to the surface layer of the paper(s) but provide the moisture of the entire thickness of the paper(s).

We have installed moisture measurement systems on new and existing corrugators and in combination with actors that provide corrugated board with greatly enhanced dimensional stability.

### Paper or corrugated board sheet counter

More precise than a weight scale in terms of measuring the moisture corrected dry paper weight and more robust and thus reliable than any optical method: Use microwave technology to count the number of paper or cardboard sheets at the end of a production line.

Readings are independent of the product moisture. No additional weight scale or any other instrument to determine the mass of the goods is needed. If the dimension of the product to be measured is known, the density can be measured as well.

### Areas of Application

Paper

Corrugated Board

Sheet Feeder

Digital Print

Coating

Bale & Reel & Stack

Cardboard

Tissue

Grammage

Converting

Inliner

Cellulose

## Advantages of Microwave



Moisture and density



Measurement of core and surface moisture



Simple and longterm stable calibration



Maintenance free



CO<sub>2</sub> neutral



Short ROI



Industry 4.0 ready



Online-Cloud-Based support



Worldwide Service

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**TEWS**  
MEASURABLY BETTER



## Paper 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.

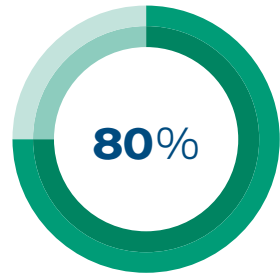
## Facts and Figures

### Reliability



long-term stable and repeatable results

### Time



less calibration effort

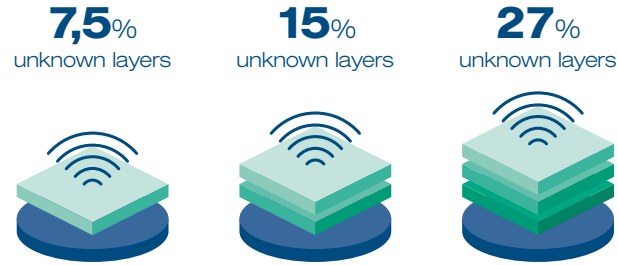
### Quality



control of moisture, density, grammage and temperature

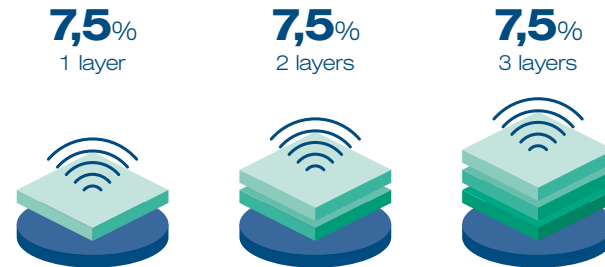
## TEWS Measures Moisture and Density Independently

### Traditional 1 - parameter - measurement



3 different layers of the same material with a typical 1 Parameter Method: Each layer increases the moisture → **misleading results**

### TEWS - 2 - parameter measurement



3 layers of same material show the same moisture, the density is recognized and moisture result compensated → **correct results**

## About TEWS

TEWS was founded in Hamburg, Germany back in 1970. Today, the company is owned and managed by André Tews in the 2nd generation of leadership. As the market leader in high performance moisture and density measurement solutions, TEWS is at the center of today's business for almost 50 years, now.

TEWS helps you streamline your processes, giving you the ability to collect and use data by applying a unique patented microwave technique across your production business. When you run TEWS high performance solutions, you run measurably better.

Let's look at your production structure together. And in a new, agile way we exchange, attach, discuss, omit or add knowledge. From this we develop new opportunities together. Bringing them into life brings your business forward at the same time. We call this Co-Improving.

