



Feed Industry As a Partner.

HIGH PERFORMANCE SOLUTIONS

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 has been at the center of today's business for over 50 years.

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.



TEWS Measures Moisture and Density Independently

Traditional 1 - parameter - measurement

0,12%
unknown layers



0,24%
unknown layers



0,36%
unknown layers



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

TEWS - 2 - parameter measurement

0,8%
1 layers



0,8%
2 layers



0,8%
3 layers



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

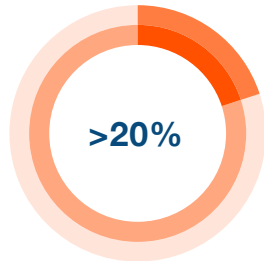


Your production process combined with our patented solutions. The result: the most accurate data about the moisture & density of your products.



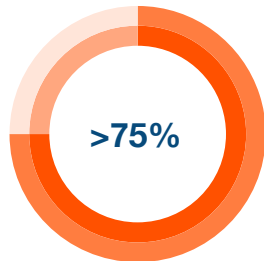
Facts and Figures

Energy



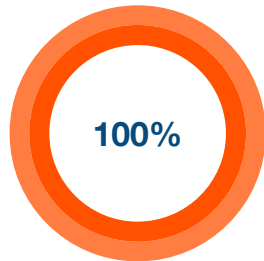
savings – due to improved dryer control

Time



faster – in the lab due to readings within milliseconds

Quality



control – of finished products like pet food pellets

Best Practice

Inline Moisture Measurement of Corn Seeds

When it comes to growing corn, soybeans, alfalfa, or many vegetables, it requires a high quality that produces high yields in the fields – no matter what type of soil and weather conditions. Therefore, the seeds must be carefully selected and treated to protect living organisms. When the moisture level is too high there is a risk of molding, early degeneration, and reduced shelf life. In case the moisture is too low the seed may not develop anymore. An inline measurement with 100% quality control is essential to meet the small moisture window.

Measuring the Bulk Density of Aqua Feed Pellets

When we introduce fish feed into the water, it should behave according to the feeding preferences of the fish species. This means it should float on the surface or sink to the bottom. These behaviors are largely influenced by the density of the fish feed, which determines its type—whether it floats, sinks, or remains highly water-resistant. Therefore, the density of fish flakes, granules, pellets, or chips is a critical factor in determining the quality of the product.

To ensure quality, we can simultaneously measure moisture and bulk density using a tubular bypass sensor integrated into the production process. This sensor provides reliable and accurate measurements within seconds, allowing for quick and targeted adjustments to the production process as needed. This ensures that the fish feed maintains the desired characteristics, leading to optimal feeding behavior and ultimately healthier fish.

Areas of Application

- Aqua Feed
- Pet-Treats & Snacks
- Compound Feed
- Seeds
- Grain
- Feed Pellets

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 CO2 footprint
- Short ROI
- ATEX protection possible
- Industry 4.0 ready
- Online-Cloud-Based support
- Worldwide Service

Contact:



Annika Oltmann
Head of Sales
+49 40 555 911-44
annika.oltmann@tewsworks.com

TEWS Elektronik GmbH & Co. KG

Sperberhorst 10
22459 Hamburg
Germany