

DÖSCHER MICROWAVE SYSTEMS:

Döscher

More than **20 Years of Experience** in Inline Moisture Measurement and Density Determination

For more than 20 years, we have offered our customers industrial solutions for precise, reliable, and density-independent moisture measurement in the production process.

In the food and beverages industry and in the wood and chemical industries, our innovative 2-PMR microwave technology permits fast and precise measurement.

Robust, wear-free, and stable in the long term, our measurement systems are suitable for the requirements of industrial production.

We offer you online remote support from our location in Hamburg.



Our measuring systems are used in the following applications:

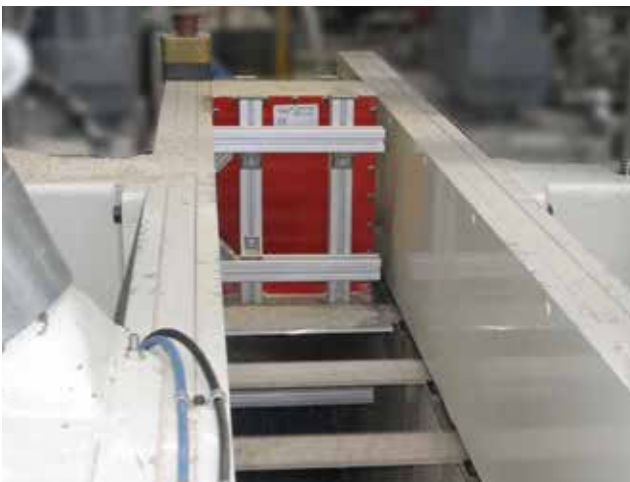
Veneer · SolidTimber · Laminate · SawWood · Parquet · MDF · Pellets
Petfood · Soja · Alfalfa · Beans · Corn · Rape · Rice · Rye · Barley
Wheat · Flour · Cornflakes · Cereals · Legumes · Nuts · Triticale
Seeds · Spices · Paper · Cardboard · Turf · Sand · Foils · SodaLime

VenScan series



THE VENSCAN SERIES

is particularly suitable for large-area flat materials and web materials. The VenScan measures the water content in fractions of a second while the product is guided through the gap between the two halves of the sensor.



FUNCTIONALITY

Between the two halves of the measuring head, an electromagnetic field is maintained to provide a homogeneous measuring field.

The 2-parameter microwave resonance technology (2-PMR) determines the moisture continuously, independently of the density. In continuous production processes, such as paper webs, the VenScan LMS also measures the grammage.



BENEFITS AT A GLANCE:

- The measuring systems can be used versatilely.
- The water content is continuously monitored.
- Production is informed immediately.
- Product temperature: 0 -100 °C.
- The measurement is performed independently of the density and thickness.
- Because of the low microwave power, no safety precautions are necessary.

MoistureScan Series



DIE MOISTURESCAN SERIES

is the innovative solution for automated moisture measurement of bulk goods in industrial production. As the bulk material slides over the sensor, it provides the necessary data for optimized process control.



FUNTIONALITY

The MoistureScan is integrated into the production flow. With the 2-parameter microwave resonance technology (2-PMR), the moisture is measured without a temperature rise and independently of the density. With up to 2,000 measurements per second, the MoistureScan continuously determines the water content of the product, independently of the density, without a temperature rise and in fractions of a second.



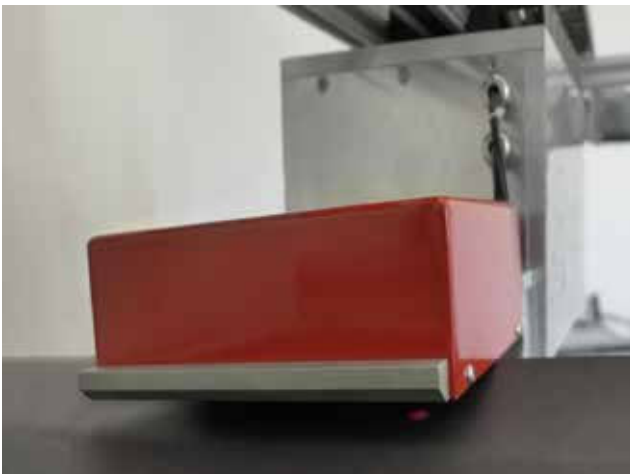
BENEFITS AT A GLANCE:

- The measuring systems can be used versatilely.
- The water content is continuously monitored.
- Production is informed immediately.
- Product temperature: 0 -140 °C.
- The measurement is performed independently of the density and thickness.
- Because of the low microwave power, no safety precautions are necessary.



TRISCAN

The measuring system permits moisture and density measurement at three positions on large-area boards. Due to the configuration of the individual measuring heads, three moisture profiles and grammages over the length of a board are recorded and compared. Each measuring sensor provides an average value for moisture, grammage, and product temperature at the end of a board.



VENSCAN LMS XS

The compact measuring system is extended by an automatic LinearMotionSystem (LMS) motion unit. It is particularly suitable for use in the production of decor paper and foils for automated tare measurements, even if only little space is available. The moisture and grammage are measured contactless at a rate of up to 2,000 measurements.



VENSCAN XXL

The VenScan XXL was developed for moisture measurement in solid wood, such as timber board, solid-wood flooring, glued laminated timber, and planks up to a thickness of 100 mm. It can be flexibly integrated into the production process, where it continuously measures the water content of the product. Product temperature range: 0-100 °C.

