

High-speed Unit MW 3011

## For Machine Integration by Our OEM Customers

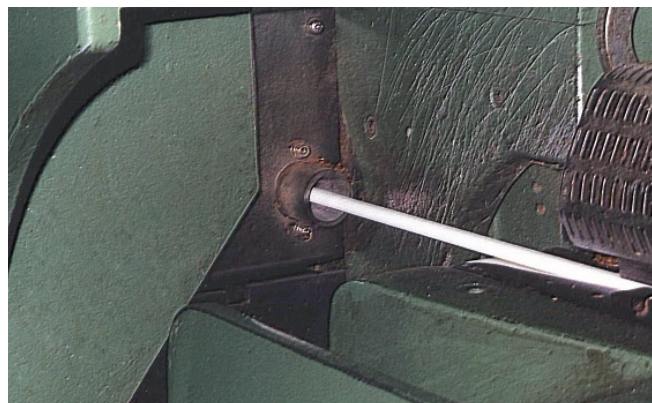
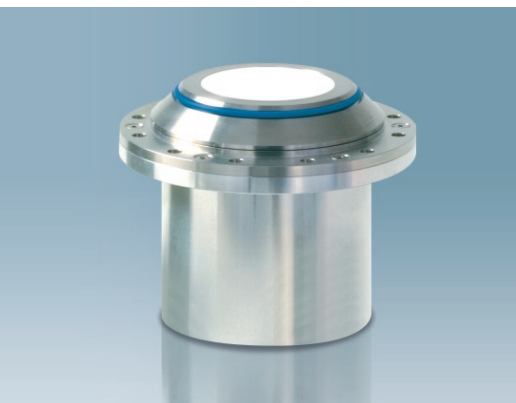


As well as our range of standard devices, we also offer many moisture and density measuring systems that take account of specific industry and product needs.

10,000 readings  
per second

High-speed system MW 3011 measures the moisture and density of cigarette or cigar rod during production and enables weight control. Optional electronics provide a highly sensitive means of detecting foreign particles (MW 3020). Again for the tobacco industry, there is a solution for measuring triacetin (the material that filters are made of) at exceedingly high speed during fiber production. 10,000 readings can be taken every second. This allows 100% control of the rod material produced.

Another area of operation is taking high-speed weight and filling level readings, e.g. for gelatine capsule production.



**Applications** High-speed microwave measuring system MW 3011 is the latest innovation by TEWS Elektronik for parallel moisture and density measurement in rapidly moving samples – for instance, cigarette rods during manufacture.

The unit is equally suitable for measuring moisture and density in quickly moving threads, yarns, tablets or capsules.

#### TECHNICAL DATA:

Measuring speed	10,000 readings per second Assuming a production line outputs 12,000 cigarettes per minute, equaling 200 cigarettes per second, every single cigarette will be measured at 50 different positions.
Accuracy (moisture)	+/- 0.1% to +/- 0.3%
Accuracy (mass)	for example, +/- 0.5% of final tobacco result within the set density range (0 – 400) mg/cm <sup>3</sup>
Microwave output	less than 1 mW
Data outputs	analog outputs (0–10 V), (0/4–20 mA) for moisture and density, RS 232, RS 422, CAN interface, optional SRM 8000.