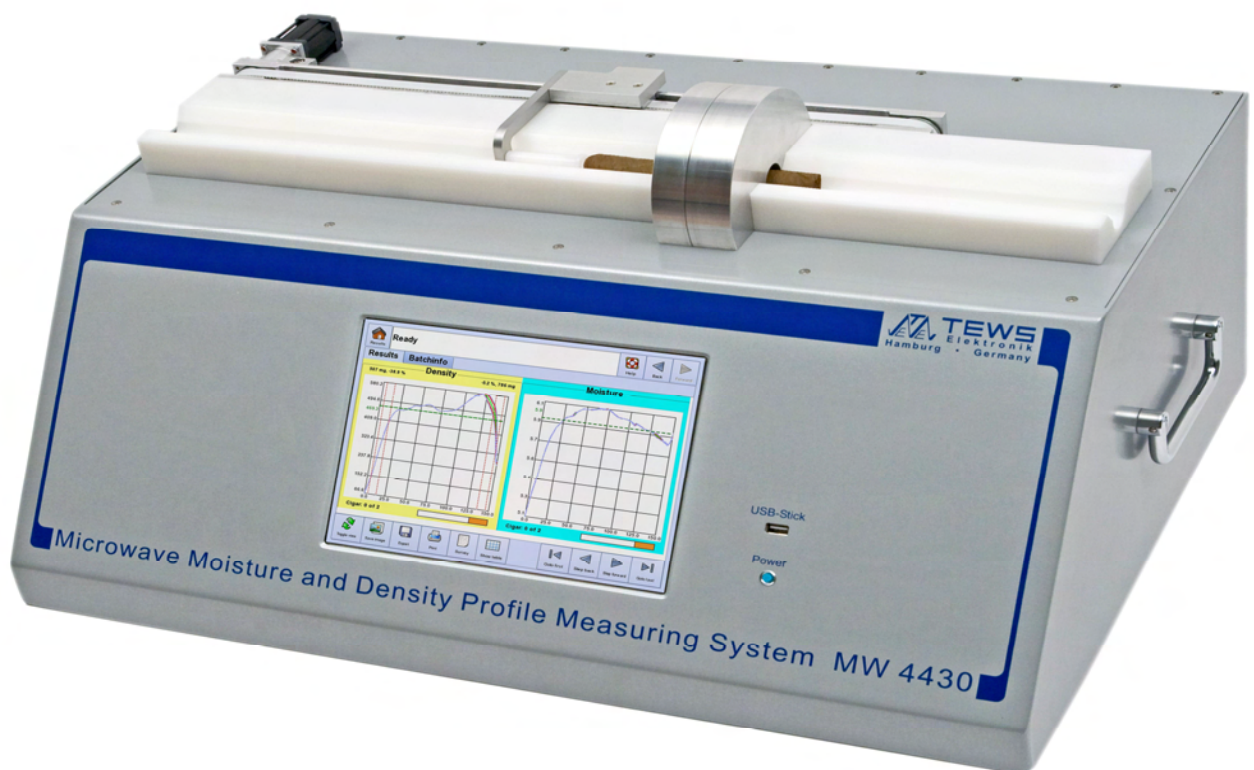


MW4430 cigar profiles[®]

**Production-related Combined
Moisture and Density Control
in the Cigar Production**



**For Improvement of the Cigar Quality
and the Production Efficiency**

Measuring cigar moisture and density profiles

This patented microwave measuring technique allows measurement of cigar moisture and density disposition ("profiles") as well as initial tobacco weights regardless of their surface structure or colour.

The horizontal cigar transport bar passing through the sensor ensures excellent results, allowing the moisture and density profiles of every cigar brand to be calculated regardless of diameter, length or cross-section.

TEWS MW4430 cigar profiles[©]

intended for quality control of a wide variety of cigars:

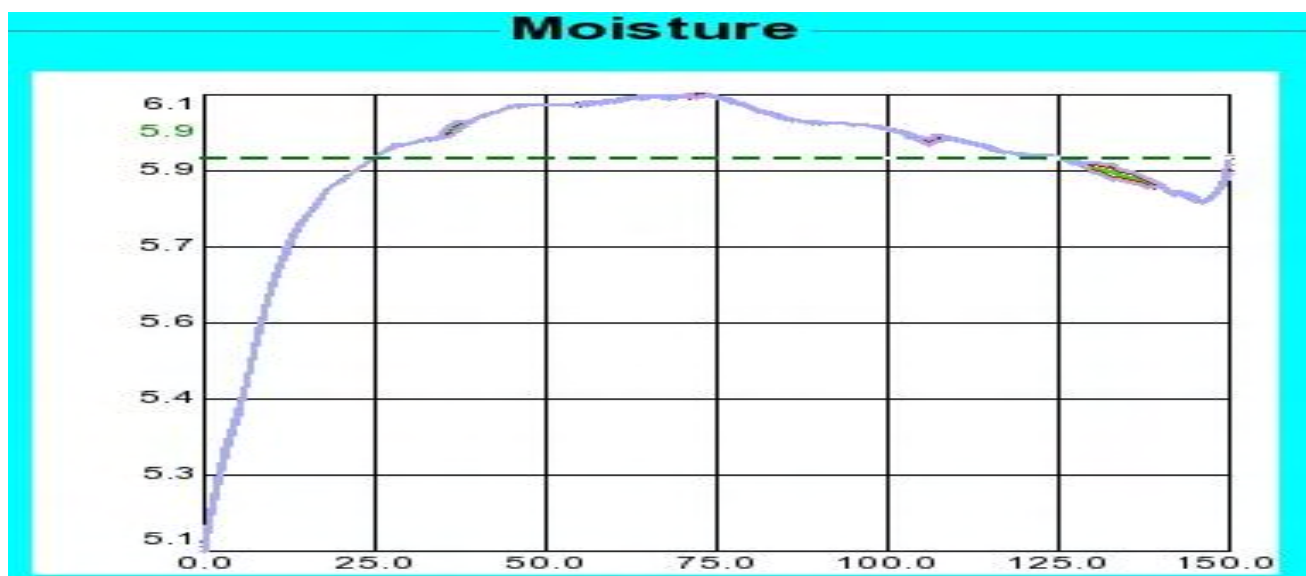
- for Shortfiller and Longfiller,
- for cigars with and without filters,
- for cigar diameters of 8 - 22 mm,
- for cigar lengths of 60 - 280 mm,
- for round, oval or square cross-sections.



Moisture, density and tobacco weight are key characteristics as regards the quality of cigars as well as the economical efficiency of their production, both for the consumer and the producer.

Because these parameters are influenced by the basic materials and production process – regular and frequent control are required.

The **TEWS MW4430 cigar profiles[©]** represents an efficient solution for cigar producers as regards production-related control of moisture and density profiles as well as tobacco weight.



Moisture profile for a Longfiller cigar

TEWS MW4430 cigar profiles[©]

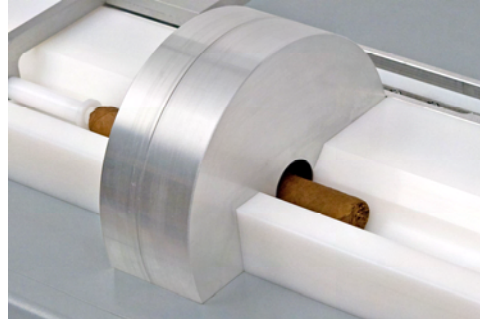


Photo of a Longfiller cigar in the sensor for moisture and density profiles

Display of cigar moisture and density profiles

Non-destructive measurement of cigar moisture and density profiles is performed extremely swiftly in only a few seconds with displays depicted in real time.

Other options include calculating and displaying the corresponding mean moisture and density profile values as well as standard deviations and the minimum/maximum values for individual cigars and batches.

"Densing" and the best cutting position are calculated for Shortfiller cigars in "sorted" mode and the machine settings can be corrected on the maker to comply with the respective cutting position.

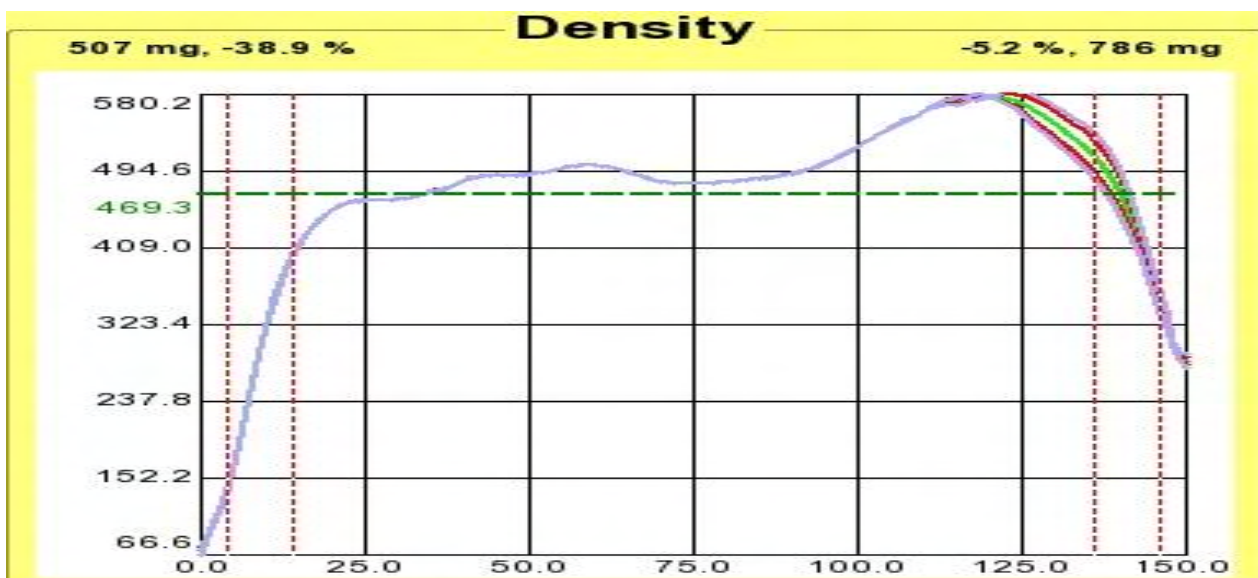
Display of integral values

The integral values moisture, density and tobacco weight can be calculated for individual cigars or batches, and depicted comprehensively on the screen.

Easy operation

The integrated colour touch screen and its self-explanatory user interface allow the system to accurately keep track of results in conformity with ISO 9000.

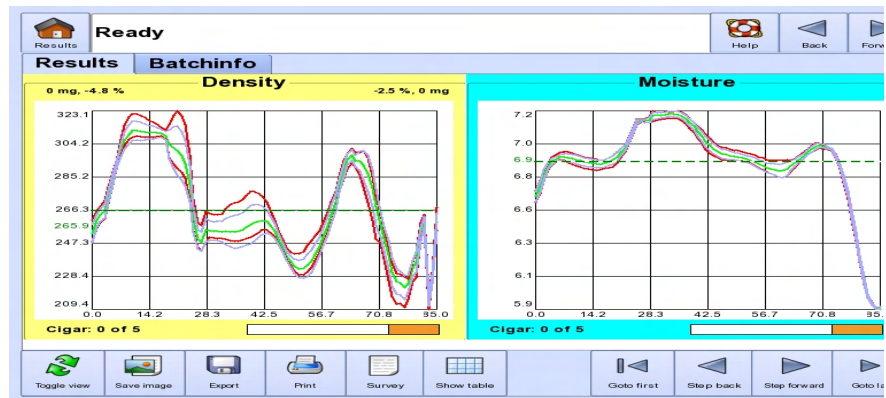
Accuracy Moisture: < 0.2% Density: < 3 mg/cm³



Density profile for a Longfiller cigar

TEWS MW4430 cigar profiles[®]

Display of
moisture and density
profiles
for a batch of 5
Shortfiller cigars



Technical Data

Moisture range: 5 – 18 %

Density range: 0 – 1000 mg/cm³

Accuracy: < 0,2 %, < 3 mg/cm³

Repeatability: 0.05 % moisture,
(standard deviation based on 10 readings
from the same sample)

Measuring speed: 2 cigars per minute

Diameter of cigars: 8 – 22 mm

Length of cigars: 60 – 280 mm

Ambient temperature: 0 - 40 °C

Dimensions general:
645x255x470 mm (WxHxD)

Transport dimensions:
830x630x530 mm

Display: 10,4" high resolution touch screen
for full operation of MW 4430

USB-Stick: for data transfers, backups or
updates

Mains connection:
110-230 V / 50-60 Hz / 200 VA

Ethernet for printers or network

USB connectors for printer, mouse etc.

RS232 for service

Data storage: SQL database

Weight: 20 kg

Transport weight:
30 kg (netto)
56 kg (brutto, volume weight)

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