

ACPM 200P

Automatic Bending Stiffness Testing Device with Parallel Measurement Value Logging

Product description

The ACPM 200P Automatic Bending Stiffness Testing Device operates according to a measuring method which is based on the Cantilever method according to DIN 53362.

It allows the determination of wide-related bending stiffness of flexible, homogeneous, light-proof materials, such as textiles, papers and films.

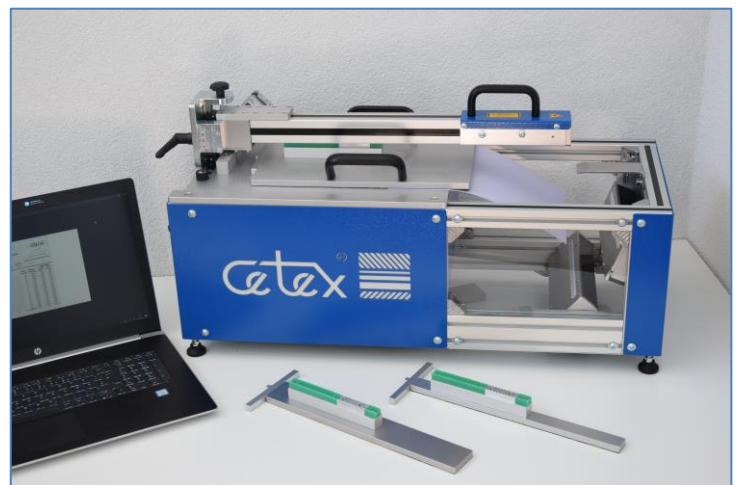
The ACPM 200P Features

Sample parameters

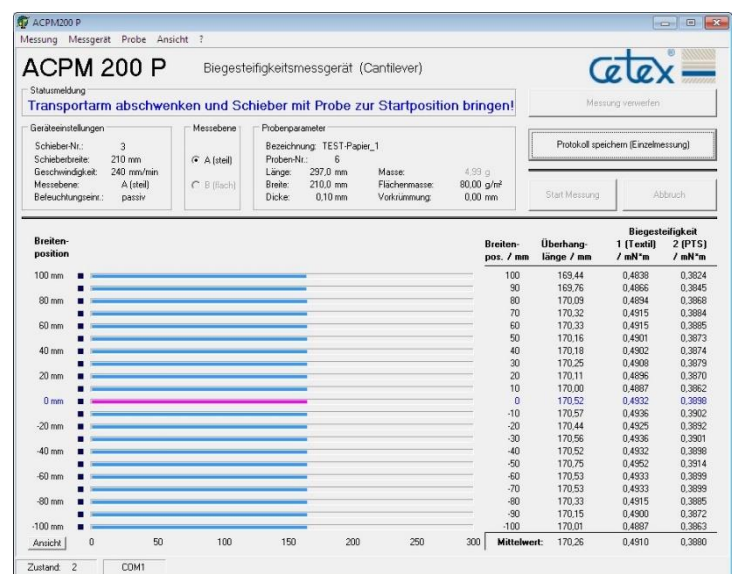
- sample length: 50 to 340 mm
- sample thickness: 0,01 to 10 mm
- sample width: 30 to 210 mm
- sample mass: 0,01 to 1000 g

Process features

- realisation of two measuring ranges by the arrangement of two measuring planes with different inclination angles
- selectable variable feed rate
- constant feed during testing
- detection of a maximum of 21 parallel measurement data at a distance of 10 mm along the sample width
- single and serial measurements are possible
- high degree of automation
- easy and convenient operation
- data output is possible as a file
- reproducibility of the results > 95 %



ACPM 200P with PC (option)



The theoretical foundations for the development were laid within the scope of the dissertation of M. Sc. Manal Seif at the Institute of Textile Machinery and High Performance Material Technology (ITM) at the TU Dresden.

Technical Data

Device dimensions:

- Total length, transport arm up 870 mm (otherwise 770 mm)
- Total height, transport arm up 785 mm (otherwise 410 mm)
- Total width 330 mm
- Total mass 35 kg

Electrical power:

Measuring device:

- Voltage 24 V DC
(circular connector, positive potential inside)
- Current max. 1,8 A
- Degree of protection IP 54

External power supply:

- Input voltage 100-240 V AC
- Input current max. 1,2 A
- Supply frequency 50 / 60 Hz
- Output voltage 24 V DC
- Output current max. 2,7 A
- Degree of protection IP 54

Laser module:

- Laser class II
- Wavelength 650 nm
- Radiant power <1 mW

Environmental conditions:

- Environmental temperature: 5... 40°C
- Relative humidity: ≤ 80%
- No aggressive media

