# CBW 200

LENZING INSTRUMENTS

AUTOMATIC CUT AND WEIGH

BULK VOLUME


**CBW 200** is an instrument designed to measure yarn bulk and titer in one fully automated sequence. This combination delivers fast, reproducible results with minimal operator influence. By directly linking yarn properties to fabric performance, **CBW 200** provides essential information for laboratory testing as well as production monitoring. It is suitable for all yarn types in which bulk is developed during production.

Bulk is determined by feeding yarn at a constant speed into a fixed-volume basket. The filling time is recorded when the basket is full. Together with yarn speed and titer, this forms the basis for calculating yarn bulk. Titer is measured using the proven automatic cut & weigh method from **ACW** system. Both measurements are carried out in one sequence, including automatic yarn string-up.

This high level of automation ensures operator independence, efficiency, and repeatability. The integrated software allows rapid adjustment of testing parameters, automatic data transfer, and efficient data handling, making the system powerful and user-friendly.

With its compact, robust design, **CBW 200** is equally suited for laboratory use and operation close to the production line. Results are available within seconds, enabling faster decision-making and effective process control. Automation guarantees reproducibility, while the **ACW** principle provides accuracy in titer measurement. By combining both parameters in one instrument, **CBW 200** establishes a reliable link between yarn structure and fabric properties, ensuring consistent textile performance.

FILAMENT TESTING

The Testing Company



05/23

# CBW 200

## AUTOMATIC CUT AND WEIGH

## BULK VOLUME

**Scope:**
**CBW 200** is designed for filament yarns where bulk is already developed during production. It provides reliable reference data for laboratory quality assurance, supports monitoring close to production lines, and assists in the development of new yarn types and processes.

**Method:**
The instrument works in a fully automated cycle, combining bulk and titer determination in one sequence. Automation ensures efficiency, reproducibility, and minimal operator influence, making the **CBW 200** suitable for both laboratory use and process control in production.

**Results:**
**CBW 200** delivers reproducible values for yarn bulk and titer within seconds. Bulk results are expressed in cubic centimeters per gram, while titer values are expressed in the common titer units tex, dtex, and den, in accordance with ASTM D6587, ensuring precise linear density measurements.

### Titer range:
up to 4000 dtex (3600 den)

### Testing speed:
Up to 1000 m/min

### Testing time:
30 - 60 sec/test
(depending on test modus, and yarn speed)

### Sample feeding:
Automatic string-up and removal

### Pretension:
Self-adjusting for yarns

### Calibration
Fully automatic calibration between test runs of the balance

### Control system:
Freely programmable control system in connection with an Windows® evaluation PC via Ethernet interface

### Software features:
- Data storage for long-time analysis
- Product table
- Network capabilities

### Dimensions:
| | |
|---|---|
| Heigth: | 1880 mm |
| Width: | 1330 mm |
| Depth: | 570 mm |
| Weight: | 265 kg |

### Power supply:
230/115 VAC ± 10%
50/60 Hz, 1000 W

### Air supply:
90 psi instrument air
20 scfm (6 bar, 0.6 $Nm^3$/min)

### Options:
- Network communication
- Bar code sample identification
- SESS automatic bobbin changer
- Ethernet IP
- OPC UA interface

Technical data and pictures are subject to change.

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