

PFI-MILL

For laboratory beating of pulp under standardised conditions.





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PRODUCT DESCRIPTION

The PFI mill is used for beating laboratory-scale pulp samples. Correct beating is the first important step in preparation of hand sheets of the required quality.

At the heart of the PFI mill are its two rolls, an inner toothed roll (the roll has 33 blades) and a smooth beater housing. The rolls rotate in the same direction at different peripheral speeds. A beating force of exactly 3.33 N/mm ensures that the pulp is beaten under standardised conditions.

TEST DESCRIPTION

A weighed pulp sample prepared with a standardised disintegrator (see page 12) is added to the pulp container and spread evenly over the entire inner wall, then the roll is lowered into the housing. The beating process then starts and the grinding gap can be set by a hand lever. Once the preset number of rotations is reached, the process ends and the roll returns automatically to a central position. After opening the mill, the beaten pulp is removed and the Schopper-Riegler value determined. The unit is ready for further beatings, so that a beating curve can be created.

TECHNICAL DATA

DEVICE/INSTRUMENT

- Beater housing and roll made of stainless steel
- Timing belt driven
- Beating of 24 30 g pulp with a concentration of 10% (max 300 ml pulp-water mixture)
- Automated stop function, the roll returns automatically to a central position
- Adjustable grinding gap
- Cleaning opening at the bottom of the beater housing for easy emptying
- Always the same beating force because of weight load: no influence of air pressure fluctuation
- Digital display: Operating hours
 Energy output in Watts (continuous mesaurement)
 Beating energy in kW/h during beating process
- Revolution speed of the beater roll: 1,458 \pm 30 rpm
- Revolution speed of the beater housing: 700 rpm
- Beating force: 3.33 N/mm, cutting length adjustable
- Beating time: 2 to 10 min

INSTALLATION REQUIREMENTS

Electrical connection	400 V / 50 Hz
Water connection	No
Compressed air	4 – 6 bar

APPLICABLE STANDARDS

- DIN EN ISO 5264-2_2011
- TAPPI T248





Control unit with display

Turnable beating