



PulpTester

Article No. S40110

PFI-MILL

For laboratory beating of pulp under standardised conditions.



MOST IMPORTANT BENEFITS

- ✓ **The only real CE certified PFI mill!**
- ✓ **Full-automated controlled process**
by well layed-out display commands and automated sequences
- ✓ **High rotation precision**
by use of frequency controlled drives
- ✓ **Highest safety levels through two hand operation mode**
- ✓ **Protection against setting of wrong parameters**
because only numbers of rotation is on demand
- ✓ **No rotational components are accesible**

 **FRANK-PTI**
QUALITY TESTING INSTRUMENTS

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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.

The core of the PFI mill are the inner toothed beater unit with its 33 blades and an outer smooth beater housing. The beater unit and housing 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 across the entire inner wall. Then the beater unit is lowered into the housing. When the start buttons are pressed, the beater housing starts rotating and the beating process commences. The mill stops when the preset number of rotations is reached. The beaten pulp can be removed and the Schopper-Riegler value determined, where required. The mill is ready for further beatings, so that a beating curve can be created.

TECHNICAL DATA

DEVICE/INSTRUMENT

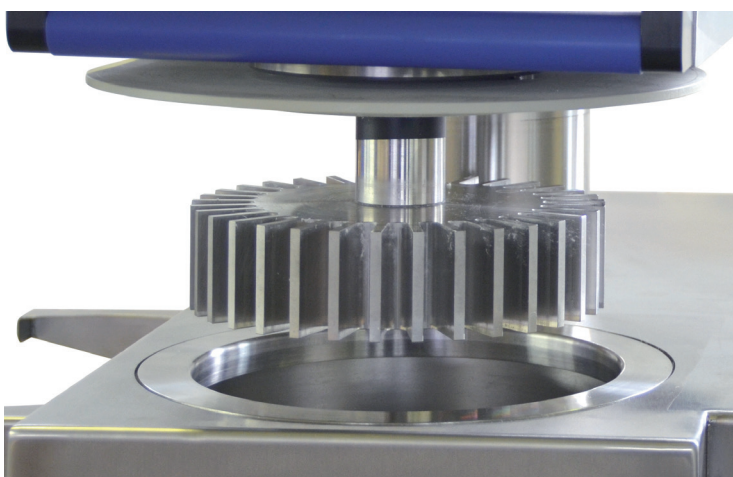
- Beater housing and roll made of stainless steel
- Timing belt driven
- Beating of 24 – 30 g pulp with a concentration of 10% (max 300 ml pulp-water mixture)
- Automated stop function, the roll returns automatically to a central position
- Adjustable grinding gap
- Cleaning opening at the bottom of 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 measurement)
 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



Turnable beating



Control unit with display