PFI Mill

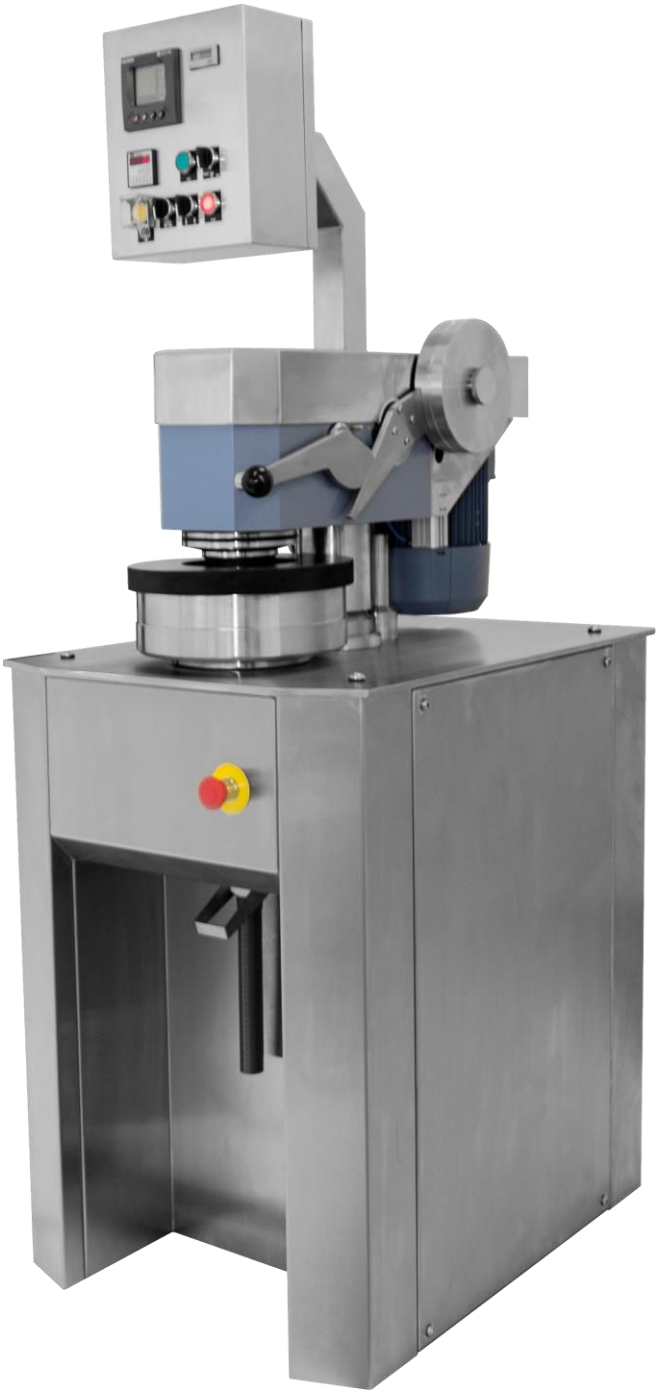
Code: E.504

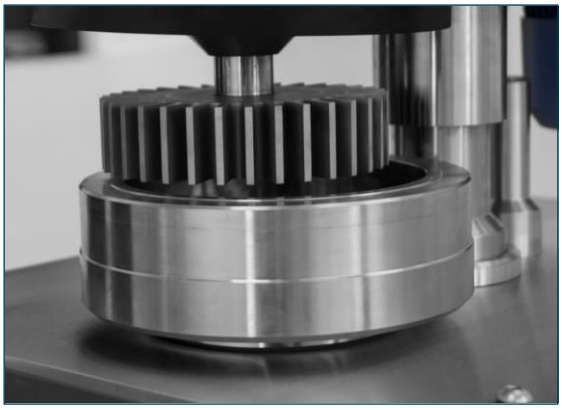
Usage

For grinding pulp in laboratory quantities under standardized conditions (30 g).

Applicable standards

- ISO 5264-2
- DIN-EN 25264-2
- TAPPI T248
- SCAN C24
- PAPTAC C7





Beating roll

Upper part turnable, grinding vessel easy access

Device description

The PFI mill is used to grind cellulose samples on a laboratory scale. Correct grinding is the first important step in producing test sheets of the appropriate quality. The heart of the PFI mill consists of two rollers: an inner toothed roller (grinding body with 33 knives) and a smooth grinding sleeve. A cellulose sample that has been weighed and prepared with the standardized disintegration device (code: P.401.x) is placed in the grinding container and distributed evenly over the entire inner wall. Then the grinding media is lowered into the grinding sleeve. After pressing the start button, the rollers rotate at different speeds in the same direction. The grinding process starts automatically. Due to the contact pressure of exactly 3.33 N/mm, the pulp is ground under constant standardized conditions. After opening the mill, the ground pulp is removed and the Schopper-Riegler value (° SR) is determined. The device is available for further grinding and a grinding curve can be created.

Connections

- Electricity: 400 V, 50 Hz AC
- Air: min. 600 kPa

Parameters

Dimensions	Weight
770 x 600 x 1730 mm	380 kg

Specifications

- grinding sleeve and grinding body made of robust stainless steel
- toothed belt drive
- automatic start after pressing a button
- Beating of 24 – 30 g pulp with a concentration of 10% (max. 300 ml of suspension)
- the grinding body stops automatically after the grinding process and moves back to the center of the grinding sleeve after the preset number of revolutions
- adjustable grinding gap
- cleaning opening at the bottom of the grinding jar for easy emptying
- special device for cleaning the toothed roller
- constant contact pressure (weights): no influence of compressed air fluctuations during grinding
- digital display of operating hours
- work performance in W (measurement constant)
- milling energy in kWh during the milling process
- speed of the beater roll: 1 458 ± 30 rpm
- speed of the beater housing: 700 rpm
- beating force: 3.33 N/mm
- grinding time: 2 to 10 minutes depending on the type of pulp