



No.2510

Standard PFI mill

The PFI mill is a beater featuring a high reproducibility, used for studying the relationship between beating degree of pulp and physical properties. This machine is basically an experimental beater widely used in the preparation stage of paper making. Beating mechanism: a constant load is given to the pulp circulating in between stainless steel roll and cylindrical mill house, which are rotating with a constant difference in circumferential velocity, applying mechanical effects such as shear and compression, thereby performing beating by frictional forces between fibers. The number of rotations is read on the counter. The beating degree is evaluated by the freeness tester.

Material: SUS-316 (stainless steel)

Circumferential speed difference: 6.0m/s

Beating pressure: 3.33N/mm (1.8kg/cm², 3.4kg/cm²)

Beating interstice: 0 to 10mm, minimum increment 0.1mm

Motor: three-phase 200/220VAC 1kW, 0.4 kW 2 units

Referential standards: JIS P-8221-2-98, TAPPI T248cm-00, ISO 5264/2-1979

Power source: three-phase 200/220VAC 50/60Hz 10A

Outer dimensions: 420 x 720 x 890mm

Instrument weight: 320kg



No.2511

Automatic PFI mill

Like the standard type, this machine is a beater featuring high reproducibility. The rolls are moved upward and downward by simple operation of a push button switch. Beating pressure is applied and released, being interlocked with motor rotation. The beating time is set in advance by number of rotations of the rolls. When the set rotation number is reached, the machine automatically stops. Operation process is automated, thereby alleviating the workload of operator and offering high work efficiency.

<Features>

1. Wide range of operation from low concentration (3%) to high concentration (25%)
2. Shorter processing time than other beaters (2 to 5 minutes)
3. Very high reproducibility
4. Easy management, because of linear decrease of freeness in proportion to beating time
5. Easy taking out of specimen and cleaning

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Beating interstice: 0 to 10mm, minimum increment 0.1mm

Motor: three-phase 200/220VAC 1kW, 0.4kW 2 units

Referential standards: JIS P-8221-2-98, TAPPI T248cm-00, ISO 5264/2-1979

Power source: three-phase 200/220VAC 50/60Hz 10A

Air pressure: 0.5MPa

Outer dimensions: 880 x 600 x 1490mm

Instrument weight: 330kg