

No. 2202

Size gum-up tester

The size solution for surface sizing penetrates and stays in the paper surface while it circulates in the group of rollers of a paper-making machine. During this process, gummy aggregations form in the size liquid, affected by the contact heat of continuous paper and mechanical shear force. After winding and drying, such gummy substance forms defects on the paper surface. There are two types of machines, A and B models. The model A is a tester applying nip pressure on the rollers, with a pump to let the size liquid circulate from the constant temperature tank. With this machine, it is possible to reproduce the conditions of an actual paper making machine for the user to know in advance the stability and mixing of ingredients. The model B is a simplified type to take out size liquid from the pan through the lower roll and introduce it into the nip between two rollers. By so doing, the desired shear force is produced, and the observer can monitor and evaluate change in state of the liquid. This tester is also used as a simplified roll coater for the coating machine.

<A model>

Propelling roller: 150 diameter×300 mm long, made of NBR

Pressuring roller: 150 diameter×300 mm long,
made of stonite

Roll peripheral speed: 20 to 200 m/min.

Roll pressure: 5 to 20 kg/cm

Driving motor: three-phase 200/220 VAC, 50/60 Hz, 0.4 kW,
steplessly variable speed

Constant temperature tank: jacket type 81 liters, 2 kW heater

Circulation pump: monoflex pump

Roller motor: three-phase 200/220 VAC, 50/60 Hz, 0.4 kW

Air source: 0.5MPa

Outer dimensions: 710×830×1050 mm

Instrument weight: 280 kg

<B model>

Rubber roll: 80 mm in diameter×300 mm long, two rolls,
made of NBR

Roll peripheral speed: 5 to 20 m/min.

Roll pressure: 0 to 20 kg (total pressuring force)

Sample pan: 200 cc (max 300 cc)

Motor: three-phase 200/220 VAC, 50/60 Hz, 0.4 kW

Outer dimensions: 680×520×1200 mm

Instrument weight: 146 kg



No. 2202-A



No. 2001-B

No. 2203

Test mangle

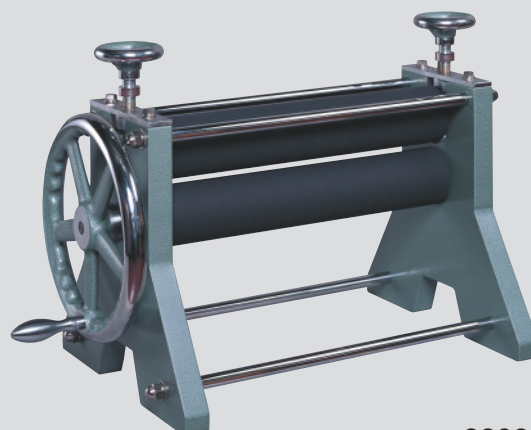
The test mangle is widely used for impregnation processing of papers and woven textiles, capable of adjusting the gap between the rollers with the right and left screws. This tester is designed to apply pressure uniformly on the right and left sides, most suitable for operations in the laboratory.

There are two types, manual with handle and motor-driven.

Roll: 70 mm in diameter 400 mm long, the material of rollers,
material to be specified for the impregnation liquid to be
used; NBR (standard)

Outer dimensions: 610×330×400 mm

Instrument weight: 38 kg



No. 2203