

Article No. S21000

Pulp Tester



Laboratory Refiner LR40

For beating of pulp under production conditions in laboratory scale.



S21000001 Laboratory Refiner LR 40

MOST IMPORTANT BENEFITS:

- ✓ Completely automated laboratory refiner
Composed of pulper, monopump, refiner and control unit
- ✓ Automated sample station
With integrated balance and 6 sample positions
- ✓ Simple generating of grinding graphs and samples for further tests
- ✓ Measuring results directly applicable to the production process
- ✓ Disc or conical refiner garnitures can be used

 **FRANK-PTI**
QUALITY TESTING INSTRUMENTS

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PRODUCT DESCRIPTION

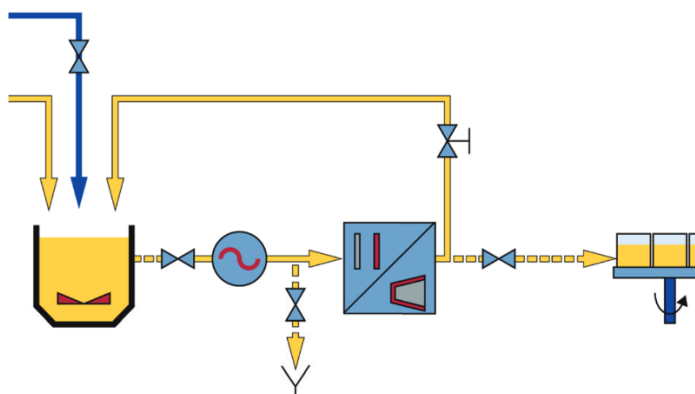
The laboratory refiner consists of a robust frame made of stainless steel, the sampling station with integrated scales, and the control panel. Inside the noise damping table there is a pulper, a progressive cavity pump, and the beating apparatus. Discs and cones can both be used as refiner garnitures. The complex electronics are mounted in a separate cabinet to prevent exposure to water.

TEST DESCRIPTION

The pulp for beating (1,500 g oven-dry) is weighed on the integrated scales and added to the pulper from above. From there it is automatically diluted with water to reach the preset consistency, and the pulping process begins. Before the actual beating process the sample is pumped without load through the refiner back to the pulper, to be warmed to the required operating temperature. As soon as this temperature is stable, idling capacity is measured immediately before commencing the beating process, and the reference sample is taken. Further samples are automatically taken when the preset edge loads or beating energies are reached. On completion of the beating, the device rinses automatically, and is then available for further beating processes.



Grinding sets



Graphic representation of the test sequence

TECHNICAL DATA

DEVICE / INSTRUMENT

- Automatic sample station with integrated balance
- Grinding set exchangeable (disc or conical refiner garnitures)
- Presetting of up to 6 grinding points
- Easy generating of grinding graphs and samples
- Measuring results directly applicable to the production process
- Detached control cabinet
- Relatively quiet in operation
- CE certification

APPLICABLE STANDARDS

no standards available

CONNECTIONS

Electrical Connection:	400 V / 50Hz 3 Phasen 63A
Power Consumption:	12 KW
Water:	System pressure min. 2,5bar / max 5bar (Hose 1/2")
Drainage:	50mm Ø (Tube) plug connection
Compressed air:	6 bar (hose 8mm)

DIMENSIONS

Version		L x H x W
S210000001	LR40:	2370 x 1750 x 1100 mm
	Cabinet:	1230 x 2000 x 700mm
		net / gross
Weight	LR40:	ca. 1130 / 1424 kg
	Cabinet:	ca. 280 / 421 kg
	Total:	ca. 1410 / 1845 kg

ARTICLES / MODELS

S210000001 Laboratory Refiner LR40

Available Accessories:

- S210001001 Grinding discs 2/3-1,46-40 (1 set=2 pcs)
 - S210001005 Grinding discs 3/5-0,45-20 (1 set=2 pcs)
- *more on request



Separate control cabinet