



**Thwing-Albert
Instrument Company**

More Than a Century of Testing Solutions

Laboratory Disc Refiner MD-3000

The MD-3000 is a disc refiner widely used for pilot refining of pulps in quality control and research and development of pulps, papers and boards. Its high capacity and sturdiness allow customers to use it also as main refiner in small sized production lines of special papers. The MD-3000 is supplied with one pair of refining discs based on the application.

- Works with mass consistency from 2 to 8%
- 50L stainless steel reservoir with inspection door
- System for linear adjustment of refining discs' gap from 0 to 9 mm with integrated scale can be used even during operation
- Heavy duty 5.5 kW (7.5 HP), 1750 rpm IP 55, rugged drive motor
- Bascule door with quick locking system offers easy access to the refining chamber and refining discs
- Integrated control panel with digital indication of the power consumption (W) and the current (A)
- Three types of interchangeable refining discs made of hard bronze are available (200mm diameter):
 - **Type I** for short fibers
 - **Type II** for long fibers
 - **Type III** for general purpose (refining both long and short fibers and disintegrating wood chips)
- Closed refining loop driven by the refiner has lower collection point for refined pulp and spreader cone in the reservoir's upper inlet which ensures that all the pulp is refined homogenously while it is circulating
- Automatic soft start system offers high torque start and high revolution operation which enables the equipment to be started even fully loaded
- All parts in contact with the refined material are made of non-corrosive materials (bronze & stainless steel)
- Heavy duty frame is iron-cast and supporting structure made with steel profiles with proper fixing holes for anchor bolts ensure smooth operation
- Refining chamber may be cooled by circulating cold water around it through available connection points ensure that users can protect their samples from typical heat generated by refining jobs.
- Power Supply: 220 VCA, 60 Hz, 5.5 k W, three phase (other options available)
- Dimensions (W x L x H): 850 x 750 x 1800 mm
- Weight: 250 kg



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