

Laboratory Disc Refiner

MD-3000

The MD-3000 is a disc refiner widely used for refining studies of pulps in the QC (quality control) and R&D (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 according to customers option. Six different types of discs are available.

- Works with mass consistency up to 6%
- 50 L capacity stainless steel reservoir w/ 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 to the user an extremely easy access to the refining chamber and refining discs
- Integrated control panel with timer and digital indicator of tension, power consumption [W] and current [A]
- Interchangeable hard bronze or stainless steel refining discs with diameter of 200 mm are available
- Closed refining loop driven by the refiner itself has lower collection point for refined pulp and spreader cone in the reservoir's upper inlet which ensures that all the pulp is refined homogeneously 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 non-corrosive materials like bronze and 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 is 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 kW, three phase (other options available)
- **Water Supply:**
3 bar, clean, pure, 0.5m³/h
- **Dimensions (W x L x H):**
850 x 750 x 1800 mm
- **Weight:** 300 kg

Refining Disc Options:

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)

In line with latest demands from the pulp and paper industries, such as NFC and MFC Regmed is introducing a new a range of refining discs designed and manufactured with latest technologies of fine bars:

- **FBD-12** - 12 Sectors, 3mm Bar
- **FBD-16** - 16 Sectors, 2mm Bar
- **FBD-20** - 20 Sectors, 1.2mm Bar

