



**MICRO ROTARY FILTER**

# MDF SERIES 1500

## Efficient liquid/solid separation

in industrial process and waste water Treatment



- Continuous filtration ✓
- Perfect atmospheric operation ✓
- Gentle treatment and transport of the solids ✓
- Filtration of abrasive material possible ✓
- Filter cake enables finer separation than nominal mesh sizes ✓
- No touching seals ✓

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# Efficient liquid/solid separation

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## Design

The MDF is a compact, fully-encapsulated filtration unit for gently and effective filtration between 20 and 2000  $\mu\text{m}$ . The basic frame is a construction of stainless steel sheets and profiles. The stainless steel maid filter mesh is mounted on the filter drum with a special clamping device (no bonding!!) and can be changed any time.



## Technical Data

Mesh sizes	between 20 and 2000 $\mu\text{m}$
Drum diameter	1500 mm
Drum length	from 1300 mm to 4900 mm
Material	stainless steel AISI 304, alternatively AISI 316 Ti/L
Special configurations	upon request



## Installations Examples

- ✓ Emulsion treatment
- ✓ Disposal enterprises
- ✓ Pulp and paper industry
- ✓ Food industry

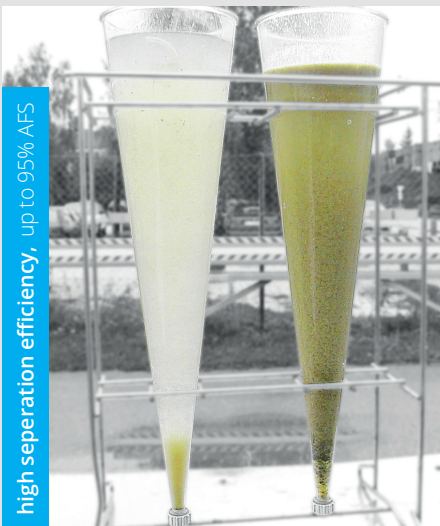
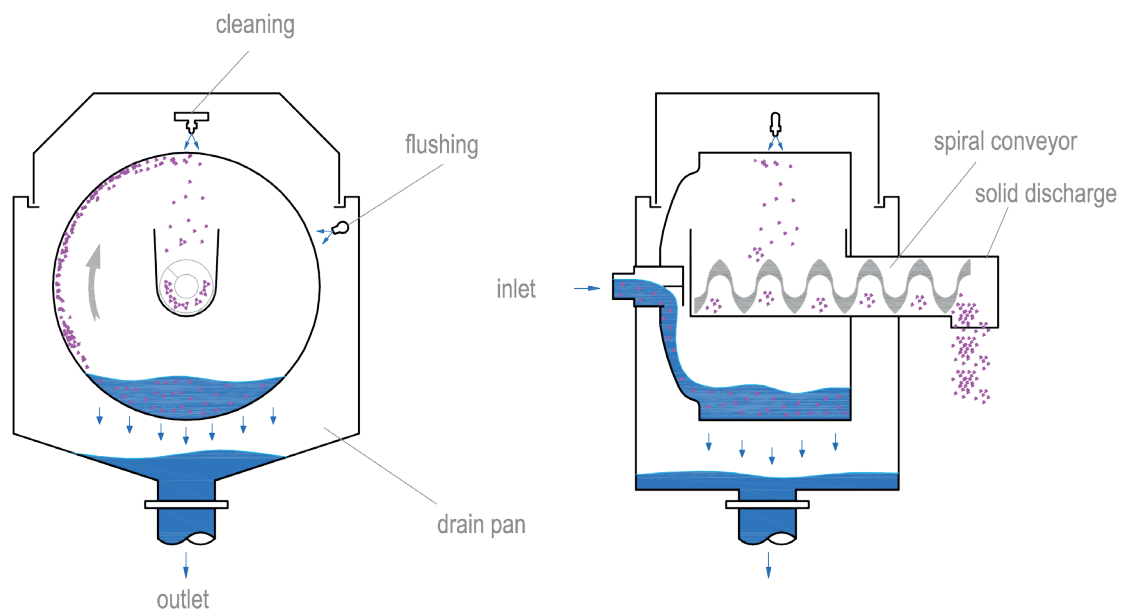
- ✓ Plastic recycling
- ✓ Laundries
- ✓ Textile industry



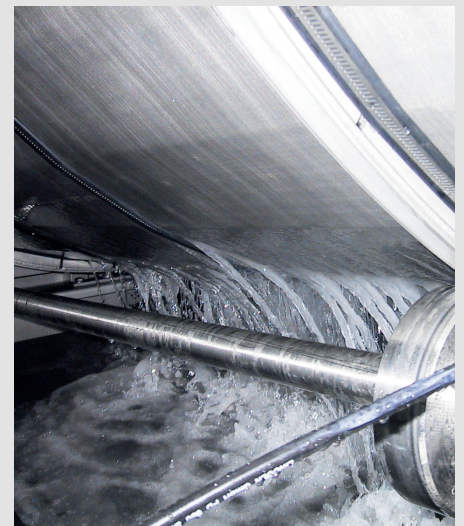
# MDF SERIES 1500

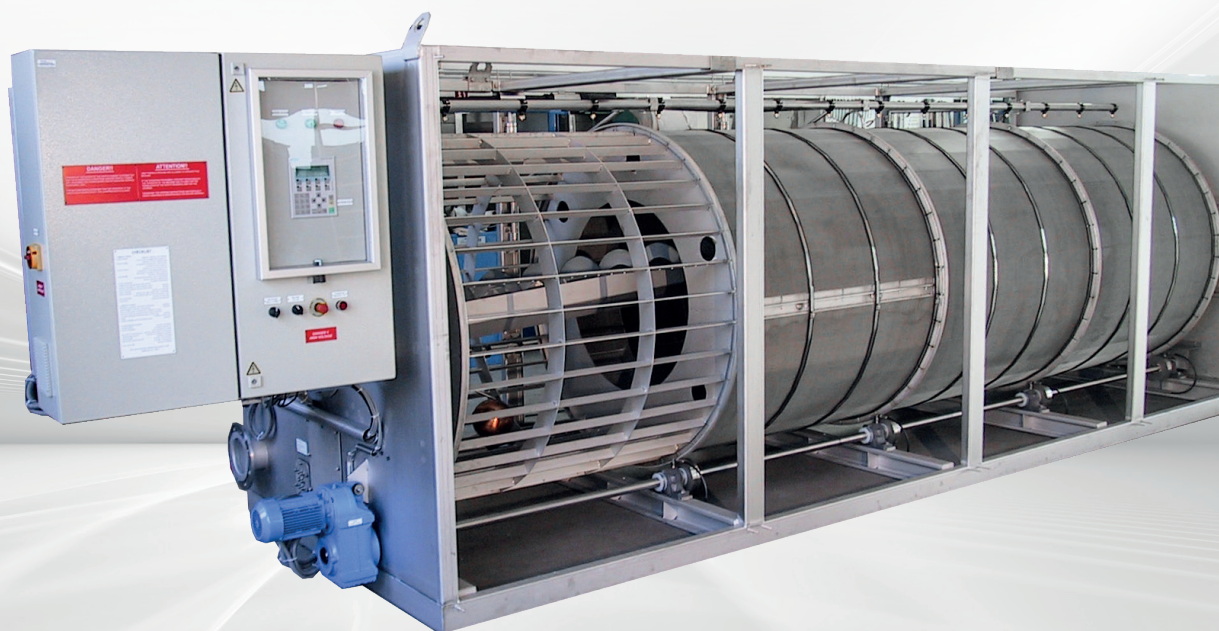
## Functional Description MDF Serie 1500

The liquid to be cleaned is fed into the rotating filter drum by means of a centrally installed inlet connection. Under atmospheric conditions, it flows through the filter mesh and either returned to the process cycle or drained into the sewage system. The accumulating solid particles which are larger than the nominal mesh size of the filter are held back by the mesh and a filter cake is formed. At this point, deep-bed filtration comes into effect, enabling significantly smaller particles to be separated than through the nominal mesh size. The cake adhering to the filter slowly conveyed upwards and dewatered through the rotating drum. At the crest of the drum, the cake is blown off with compressed air, high-pressure or water jet and discharged out of the MDF by means of a spiral conveyor.



high separation efficiency, up to 95% AFS





# PRODUCT OVERVIEW

Series MDF		1513	1525	1538	1549
Drum diameter	mm	1500			
Drum length	mm	1300	2500	3800	4900
Inlet connection max.	DN	250	250	250	250
Outlet connection max.	DN	300	300	300	300
Drive bearings outside		✓	✓		

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