



# DISC DRYER



## ► Introduction

FMD series disc dryer for fish meal, meat rendering, poultry rendering, black soldier fly larvae drying and sludge drying, different from traditional disc dryer, has a unique spindle design. The main shaft does not expose the welding seam, avoids the welding seam directly contacting the material, and prevents the material from wearing and corroding the welding seam, thus greatly prolonging the service life of the dryer.

FEEDSMACHINERY disc dryer can be manufactured into various sizes and specifications according to the demand of output and under the conditions of transportation. Our fish meal dryer can also be made of carbon steel Q345, stainless steel 304, 316L or bidirectional stainless steel according to the nature of the material.

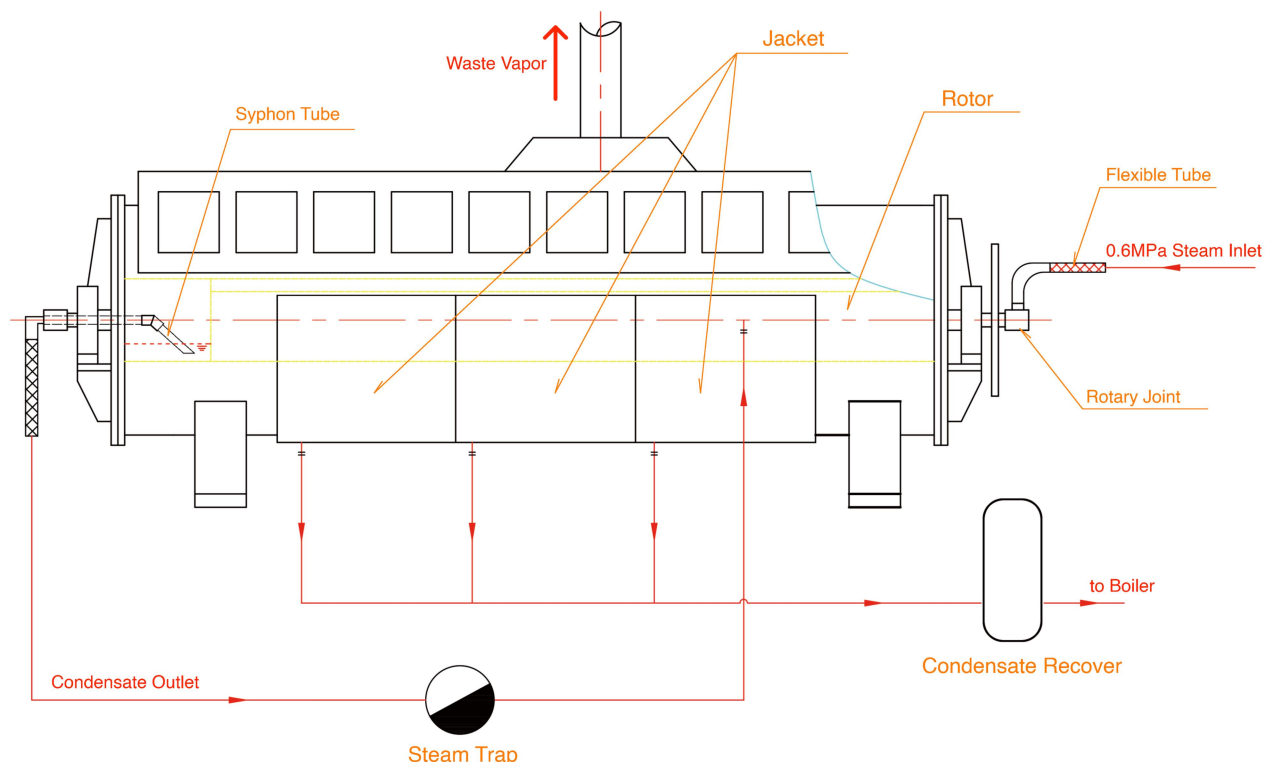
## ► Features

- Double disc design, large heating area, high energy efficiency.
- Slight vacuum condition to effect evaporation below 95°C.
- Special mechanical design for hiding all welding seams, to ensure long service time.
- Optional heating jacket for extra heating area.
- Condensate recover design for more than 20% energy saving





## ► Structure & Principle



FMD series disc dryer uses saturated steam as heat source (rated steam pressure 0.6MPa), which belongs to indirect steam dryer. It is mainly heated by the main shaft, and can also be heated through the interlayer of the outer casing. The spindle speed is slow, usually 10 to 12 rpm. The material is slowly transferred from the feed end to the discharge end through the pusher system on the outer edge of the blade. The discharge is controlled by a speed-adjustable screw conveyor, which is convenient to adjust the size and speed of the discharge according to the needs.

The heating blades are installed on high-quality seamless steel pipes, and combined with an efficient condensate drainage system, the heating area of the blades can be utilized to the maximum efficiency and a good heat exchange efficiency can be maintained. A stainless steel scraper is installed between the heating blades, which can stir the material, prevent the material from being piled up between the blades, and ensure the complete evaporation of water. The water vapor passes through the stainless steel air collecting hood at the top of the dryer, and is continuously discharged from the machine under the action of the induced draft fan.



## ► Model & Selections

| Model   | Disc Diameter | Size(mm)        | Motor Power(kw) | Heating Area(m2) | Capacity(Mt/24h) |
|---------|---------------|-----------------|-----------------|------------------|------------------|
| FMD-50  | 1200          | 7600x2000x2850  | 37              | 96               | 50               |
| FMD-80  | 1450          | 8300x2500x3100  | 45              | 158              | 80               |
| FMD-100 | 1450          | 10000x2500x3100 | 55              | 198              | 100              |
| FMD-150 | 1700          | 11200x2500x3200 | 75              | 261              | 150              |
| FMD-200 | 1950          | 11800x3000x3500 | 110             | 350              | 200              |

Material selection according to different raw materials: carbon steel, 304, 316L, double-sided stainless steel, etc.

## ► Optional accessories

|   |   |
|---|---|
| ✓ Feeding auger (adjustable speed, control feeding speed)     | ✓ Operating platform  |
| ✓ Hydrophobic system  | ✓ Fully automatic condensate recovery device (can save more than 15% steam consumption) |
| ✓ Stainless steel induced draft fan                           | ✓ Cyclone dust collector (removes dust from exhaust gas)                                |
| ✓ Discharge auger (adjustable speed, control discharge speed) | ✓ Condenser (air-cooled/water-cooled to reduce exhaust emissions)                       |
| ✓ Spray tower (washing dust from exhaust gas)                 | ✓ Electronic control system   |



*We provide process design of fishmeal processing equipment, design and manufacture of supporting equipment, installation, commissioning, operation training, operation and maintenance, etc.*



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