

Micro Dust Remover



Working Principle

Material from the preceding machine is thrown with a great force by the transport fan on the screen. The oscillating dampers help in distributing the material evenly across the width of the screen. This results into smaller tufts coming in contact with the perforated screen. The liberated micro dust is removed by the dust transport fan which is placed on the opposite side of the screen. After the material slides down, it is sucked away by either a condenser or a material transport fan.

It is recommended to use the micro dust remover after the last beating point where the cotton is in open form so that the micro dust can be removed easily.



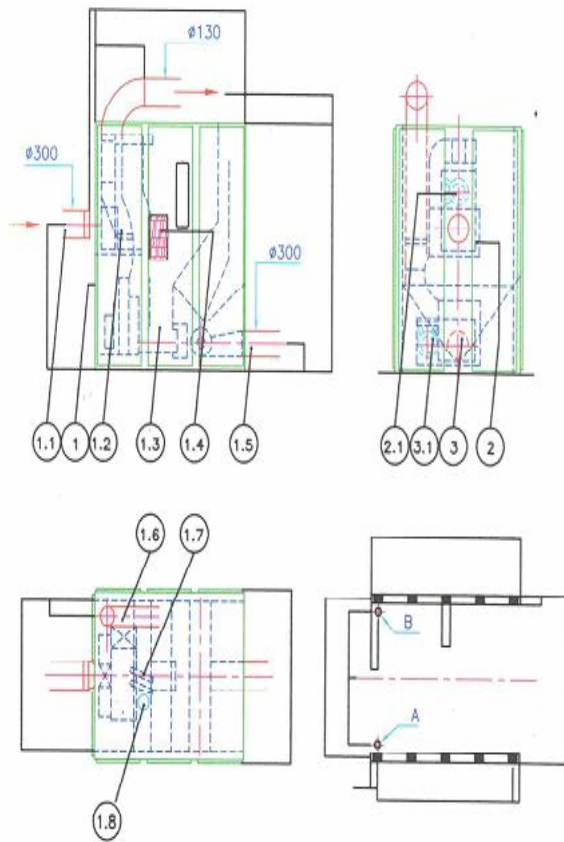
Constraints for removing micro dust by Condensers

- Limited surface area contact of material with cage
- Overlapping of raw material at cage - results into inefficient micro dust removal; micro dust gets embedded inside the tufts which are difficult to remove later on.

Micro dust hampers the smooth working of Ring and Rotor spinning as follows

- Quality of yarn is affected due to thick, thin places and Neps
- Production loss due to higher end breaks
- Reduced Life of the rotor

Micro Dust Remover



1. MICRO DUST REMOVER (HMR)
 - 1.1. MATERIAL INLET
 - 1.2. MATERIAL DELIVERY DUCT
 - 1.3. MATERIAL SUCTION FUNNEL
 - 1.4. AIR INLET
 - 1.5. SUCTION DUCT FOR DUST & WASTE
 - 1.6. MATERIAL OUTLET
 - 1.7. MATERIAL DISTRIBUTION FLAPS.
 - 1.8. FLAPER DRIVE GEAR MOTOR-0.37Kw/1440RPM
 2. MATERIAL TRANSPORT SYSTEM (HMT)
 - 2.1. MOTOR 5.5kw. 2880 R.P.M.
 3. DUST TRANSPORT SYSTEM (HMT)
 - 3.1. MOTOR 3.7 kw. 2880 R.P.M.
- A= ELECTRICAL CONNECTION
 B= PRESSURE AIR CONNECTION
 CONNECTED LOAD WITH FAN 425=9.57kw,
 I.G.W. - INNER FRAME WIDTH
 TOTAL WEIGHT = 1700 Kgs.
 R.P.M. = REVOLUTIONS FOR 50 HZ

Majority of cotton varieties are contaminated with leafy particles, seed coats, micro dust etc. Some part of the micro dust is removed in blow room through condensers and other opening points. But most of the micro dust is carried further which no regular machine in the process can remove.



Henna Tex

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