



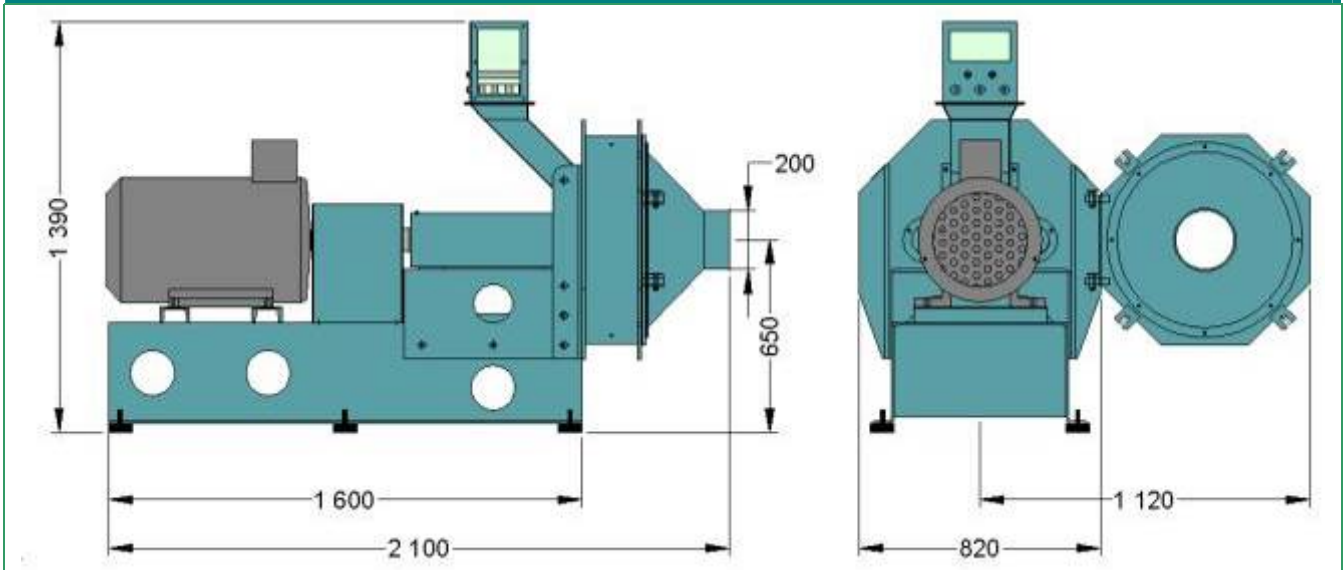
## GRINDING MILL BM



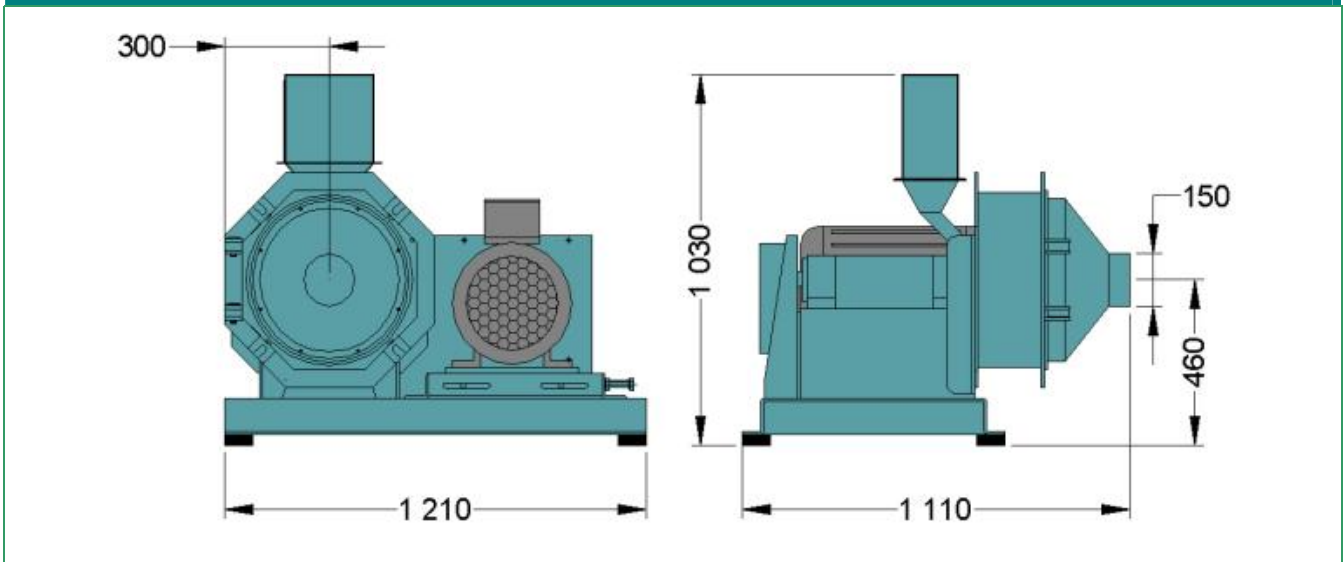
MICRONISER ATTRITION MILL  
For fine and ultra-fine milling

## OVERALL DIMENSIONS in mm

### GRINDING MILL BM 600



### GRINDING MILL BM 400



## OPERATING PRINCIPLE

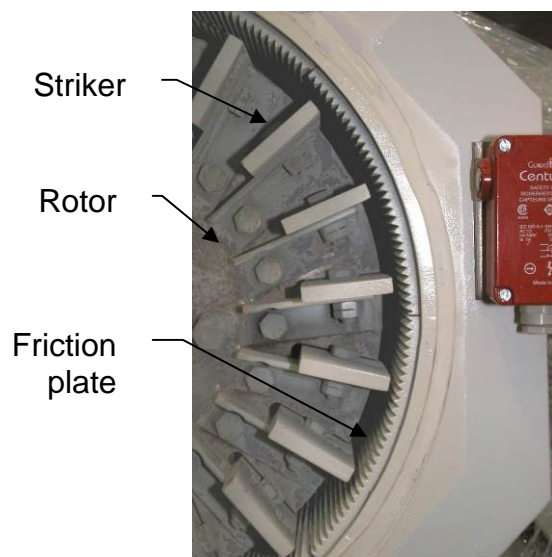
The product is brought into the milling chamber where it circulates in a current of air. A grooved stator causes major turbulence which creates pressure differences causing the material to vibrate.

This vibration, which can reach several kHz, helps to fragment the product. The grain size adjustment uses several parameters such as: peripheral speed, holding time of the product within the device and the volume of transfer air. The grain size distributions which can be obtained with this type of equipment is generally between 100 and 1000  $\mu\text{m}$ . Throughput can reach 1500 to 2000 kg/h.

There are numerous operational benefits such as, for example, low temperature milling to reduce humidity losses or the treatment of heat-sensitive products without adversely affecting the organoleptic properties of the milled products.

# SPECIFICATIONS

|                          | BM 400  | BM 600            |
|--------------------------|---|-------------------|
| <b>CONSTRUCTION</b>      | Frame in welded and ribbed sheet metal, thickness 10 mm   |                   |
| <b>WEIGHT</b>            | 500 kg  | 1000 kg           |
| <b>FEED</b>              | Input hopper with magnetic shielding  |                   |
| <b>ROTOR</b>             | mounted on rigid roller bearings within a one-piece bearing   |                   |
|                          | 20 bolted hammers   | 30 bolted hammers |
| <b>STATOR</b>            | Fitted with ribbed armour plate in NI-HARD cast iron  |                   |
| <b>SPEED OF ROTATION</b> | 4500 rpm  | 3000 rpm          |
| <b>TRANSMISSION</b>      | Toothed V-belts and sheaves   | Direct coupled    |
| <b>MOTORISATION</b>      | 11 to 132 kW  |                   |
| <b>PRODUCT OUTLET</b>    | By suction through an interchangeable diaphragm of a suitable diameter  |                   |
| <b>EQUIPMENT</b>         | Anti-vibration mounts<br>Safety detector when the door is opened  |                   |
| <b>OPTIONS</b>           | <ul style="list-style-type: none"> <li>• <b>For feeding:</b> offset conical hopper and vibrating dispenser with manually-controlled potentiometer<br/>worm screw mounted within a tube or trough with frequency converter</li> <li>• <b>For collection:</b> HP centrifugal fan</li> </ul> |                   |
| <b>SOUND LEVEL</b>       | These devices may significantly exceed 80 dB(A)   |                   |



Rotor detail



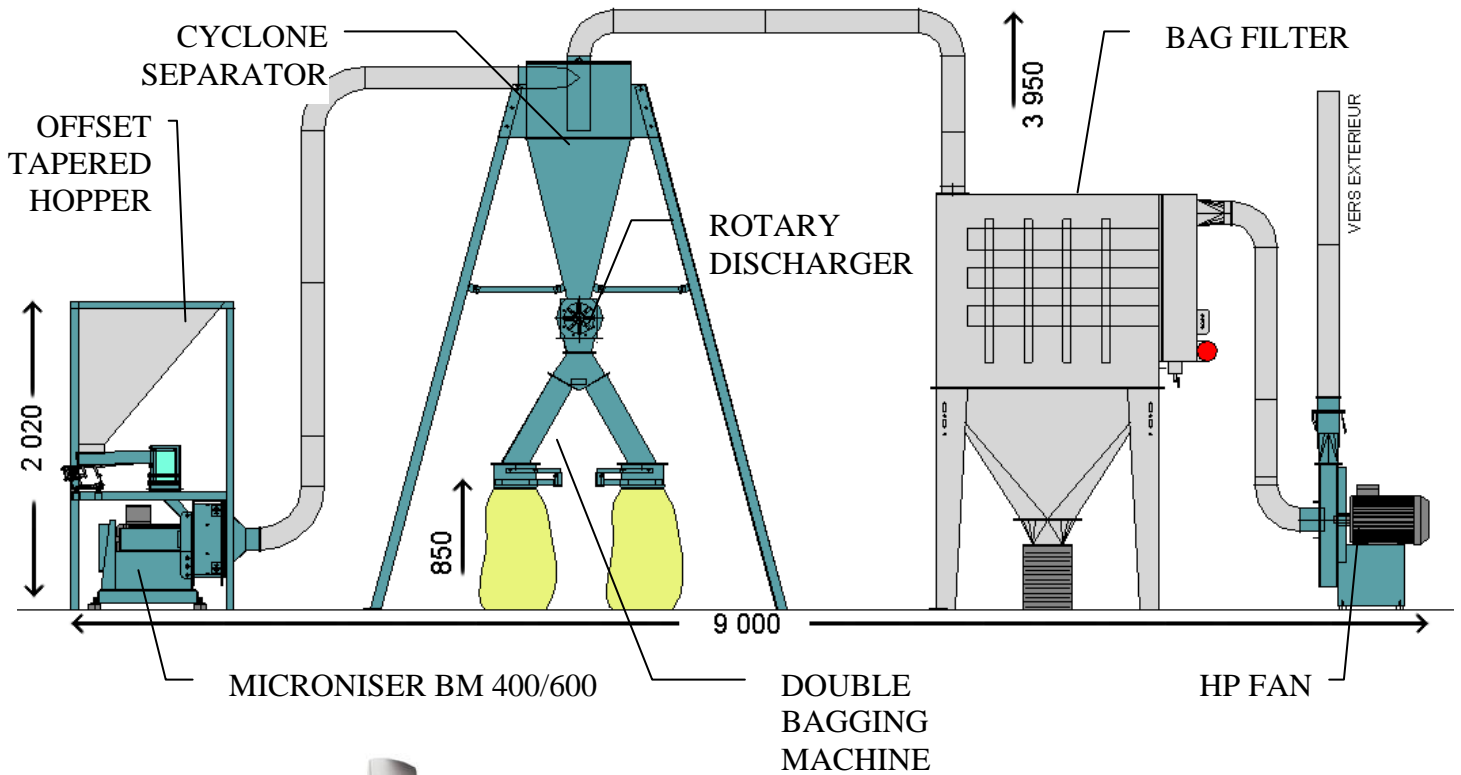
BM 600 with vibrating dispenser

## LIST OF PRODUCTS PROCESSED

- Maize, cassava, chestnuts, coffee, soya, cumin, wheat germs, cereals
- Nut shells, olive pomace, bran, corn on the cob, wood chips, palm tree cakes, etc.

- Plastic materials: PVC, polyethylene pellets, polyvinyl benzene, etc.
- Aromatic plants, dehydrated vegetables, dehydrated cacti, eucalyptus leaves, sugar, casein, etc.

## OPERATING DIAGRAM



The technical specifications may be subject to change without notice



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