SERIES M00IT Grinding System

<table>
<thead>
<tr>
<th>Model</th>
<th>M10-01/2</th>
<th>M20-01/2</th>
<th>M30-01/2</th>
<th>M40-01/2</th>
<th>M50-01/2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (Kg/h)</td>
<td>50÷120</td>
<td>150÷250</td>
<td>300÷400</td>
<td>500÷700</td>
<td>800÷1000</td>
</tr>
<tr>
<td>Grinding motor ATEX 22</td>
<td>5 kW</td>
<td>11 kW</td>
<td>22 kW</td>
<td>30 kW</td>
<td>45 kW</td>
</tr>
<tr>
<td></td>
<td>3 phase, 400V, 50 Hz, 2 poles, IP55</td>
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</tr>
<tr>
<td>Classifier motor ATEX 22</td>
<td>1.5 kW</td>
<td>3 kW</td>
<td>4 kW</td>
<td>5.5 kW</td>
<td>6 kW</td>
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<tr>
<td></td>
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</tr>
<tr>
<td>Filtering BAG Surface m²</td>
<td>7</td>
<td>30</td>
<td>40</td>
<td>60</td>
<td>90</td>
</tr>
</tbody>
</table>

CONTACTS

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Registered Office: Via Roncaglia 14 - 20146 Milan - Italy
The Grinding System M00IT SERIES has been designed according to the ATEX directives 2014/34/UE and equipped with anti-explosion valves in order to minimize the explosion risk.

**Main features:**

- Product discharging system through rotary valve
- Product dosing system through rotary valve in mill suction pipe
- Grinding chamber optimized to reach the particle sizes required for your products (105 micron) and for the required productive capacities
- Machine designed with ovenized steel thicknesses in order to resist to possible explosions PEX max
- Many internal parts of the mill in stainless steel
- Fineness also adjustable by acting on the speed of the classifier and the grinding disc, which are driven by frequency converter in the electrical control board
- Stainless steel cyclone for product collection
- Mill designed according to the ATEX directives 2014/34/UE and equipped with anti-explosion valves, in order to minimize the explosion risk
- n° 2 Self-activating safety non return compartment valves
- n° 1 Anti-explosion safety valve
- Electrical control board with PLC system (Siemens)
- Two options for Outdoor area classified:
  1) Outdoor area classified Atex 22 (type MXX-01)
  2) Outdoor non classified area Atex 22 (type MXX-02)
- Mill with vertical axis and with air selector

**Composed by:**

- Opening for pneumatic feeding of the material, for process air inlet and for product discharge, complete of special rapid release flanges for piping coupling
- Stainless steel AISI 304 peripheral cladding grinding chamber, with pins and feed port of the product
- Opening for product feeding, for the inlet of the process air and discharge of the products
- Mechanical group with nr. 2 coaxial shafts, for the grinding disc and for the classifier, having appropriate bearing lubrication with special grease, specific for the application
- n° 2 Bearing temperature sensors
- n° 1 Vibration Sensor Ex(i)
- Basement to support the grinder and the motors with their safety protection
- Grinding Motor: 3 Phase 400 V. - 50 Hz. - 2 poles - IP 55 ATEX Category 3
- Classifier motor: 3 phase 400 V. - 50 Hz. - 4 poles - IP 55 ATEX Category 3

**High efficiency cyclone**

**Composed by:**

- Materials: Stainless Steel AISI 304
- Decantation cone for dust separation at high efficiency
- Radial inlet air / dust

**Filter bags**

**Composed by:**

- Material: Carbon Steel
- Filtering surface
- Bag washing: compressed air
- Electro valves - 24 V DC - time control
- Bags in antistatic polypropylene and anti-adhering material
- Rotary valve
- Motor ATEX Category 2
- Differential Pressure sensor

**Safety valves certified by “FIKE” for classified areas**

**Composed by:**

- n° 1 FIKE – VENTEX ESI-E prior to inlet
- n° 1 FIKE – VENTEX ESI-E after the filter bag, prior to the ventilator
- ATEX Equipment II 1GD Ins. /II 2GD Out
- n° 1 FIKE – FLAM Quench installed on the filter bag
- ATEX Equipment II 1GD Ins. /II 2GD Out

**Feeder (additives)**

A gravimetric or volumetric feeder is foreseen for all types of Grinding Systems.