

**ISIMSAN**<sup>®</sup>  
MIXER & PLANT ENGINEERING



Micro Mill



# PRODUCT INFORMATION



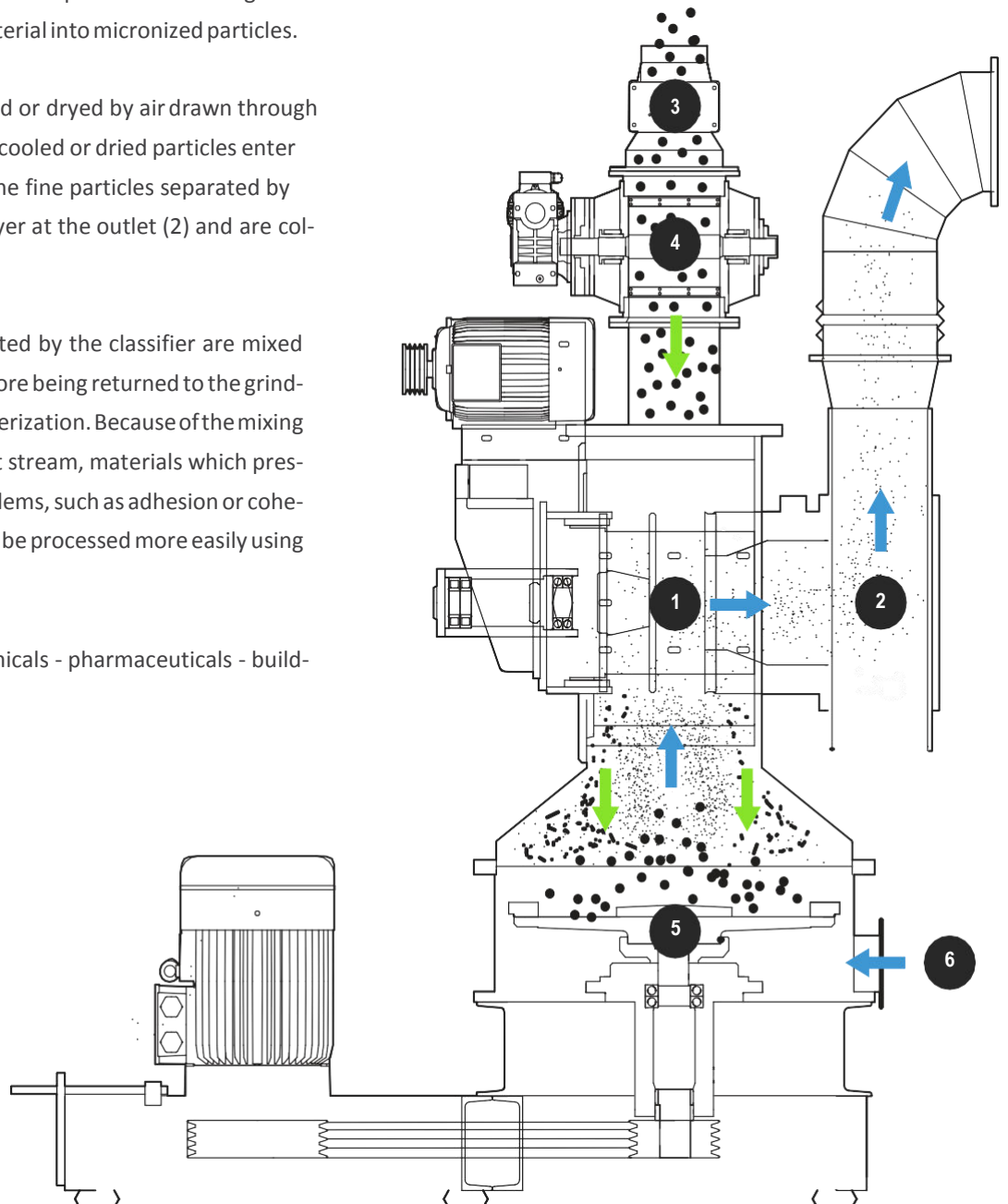
The figure below shows the principle of operation of Isimsans Micro Mill.

The system consists of a horizontal mounted classifier (1) with combined product and air outlet (2), magnet box (3), material feeder (4), grinding rotor (5) and air or gas inlet (6). The specially designed feeder transfers the material into the grinding section. The impact action of the grinding rotor disperses the material into micronized particles.

The particles can be cooled or dried by air drawn through the mill by the fan. So the cooled or dried particles enter the classifying zone (1). The fine particles separated by the classifier leave the dryer at the outlet (2) and are collected in the filter unit.

The coarse particles rejected by the classifier are mixed with the feed material before being returned to the grinding section for further pulverization. Because of the mixing of the feed with the reject stream, materials which present difficult handling problems, such as adhesion or cohesion, are modified and can be processed more easily using this technique.

**Applications:** foods - chemicals - pharmaceuticals - building materials





# TECHNICAL SPECIFICATIONS

## FEATURES

**Particle sizes:** 0.04 - 0.2 mm

**Hardness classes:** <9 Mohs

**Capacity:** 500 - 1,250 kg/h

**Material:** carbon steel - stainless steel

**Surface:** painted, standard RAL 1013

**Size:** 2.200 x 1.430 x 2.100 mm

**Products:** food -, pharmaceutical -, chemical powders

**Drive:** 50 Hertz / 50 - 150 kW

**Classifier wheel:** hardened steel

## OPTIONS

- Magnet box
- Rotary valve
- Frame and platform
- PLC system (Programmable Logic Controller)

## TYPICAL BENEFITS

- Optimum accessibility
- Easy cleaning
- Deposit-free and gentle processing of pigments, powder coatings, etc.
- High air flow rate for cooling grinding
- Stable classifying characteristics and once set, the classifying remains constant

Isimsan designs Micro Mills according to customer specifications. This includes the choice of drive models, of feeding systems and of other equipments too.

For further informations, please do not hesitate to come back to us. We are there for you.

Isimsan manufactures according to the following International directives and regulations:

- CE 2006/42/EC (machinery directive)
- CE 2014/29/EU (pressure vessel directive)
- CE 2014/68/EU (pressure vessel directive)
- ATEX product line 2014/34/EU
- EHEDG hygiene guidelines
- GMP (Good Manufacturing Practices)
- FDA (U.S. Food and Drug Administration)
- EAC (EuroAsia Comformity)
- Isimsan is certified in terms of quality management (ISO 9001) environmental standards (ISO 14001), welding technology and supervision (ISO 3834 & 14731) and control technology (2006/42/EC).



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SUPPORT YOU ALL OVER THE WORLD.**

**E-MAIL: [sales@isimsan.com.tr](mailto:sales@isimsan.com.tr)**

**PHONE: +90 232 8770582**