

HM-400

Hammer Mill





HM-400

The **HM-400** is a hammer mill that guarantees optimum milling results in the fine milling and pulverization of hard, crystalline, and fibrous products to fineness of up to 30 μm . The **HM-400** is used for small batch production as well as for large capacity production. With its compact and modular design, it is easy to integrate in nearly any process flow. It is constructed to ensure optimum and reliable production in GMP and High Containment, even for very hard products.



“
PERFORMING,
FLEXIBLE,
PRECISE!”

Feature:

- The milling chamber can be dismantled via a tri-clamp.
- The safety switch does not have cable outside.
- The half round screen has as high as 40% active opening.
- Easy to clean, no outside cable.
- Easy assembly.
- Easy access of operation.
- The smallest milling size is 30um.

Advantages:

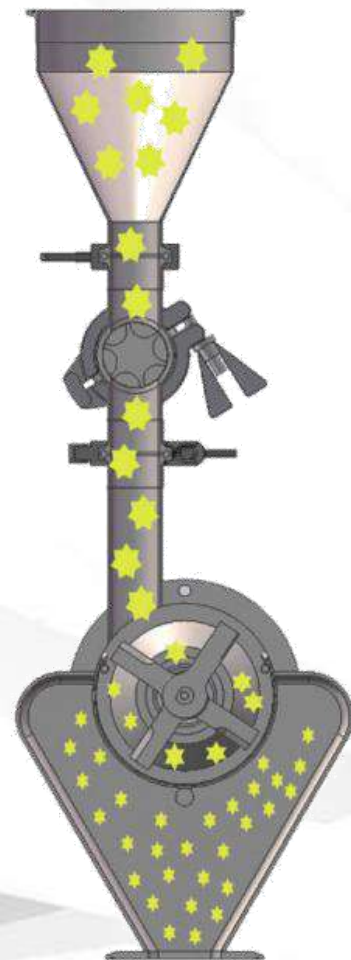
- Bigger active sieve surface lead to higher throughput and low temperature rise.
- The good design reduce the number of the moving parts. The connection of the tri-clamps assure an easy way to assemble and dismantle the milling chamber which assure the offline sterilization;
- This means: Quick and easy cleaning and maintenance and high operational availability at lower operating costs.
- All tri-clamp assembled feeding device.
- AT rotating cylinder.
- The high speed rotor with both knife and hammer side.
- The rotor and the sieve do not have mechanical contact.
- High active opening sieve.
- The milling head can be easily dismantled.



Function:

The product goes through the feeding valve which ensures a consistent product flow to the milling chamber. Then the product is impacted by the high speed rotor and then becomes smaller particles which goes down through a screen mounting below the rotor. Customer can adjust the rotor speed and screen size to achieve required particle size distribution.

HM-400 Milling Process



HM-400 Hammer Mill



Ergonomic and easy to use:

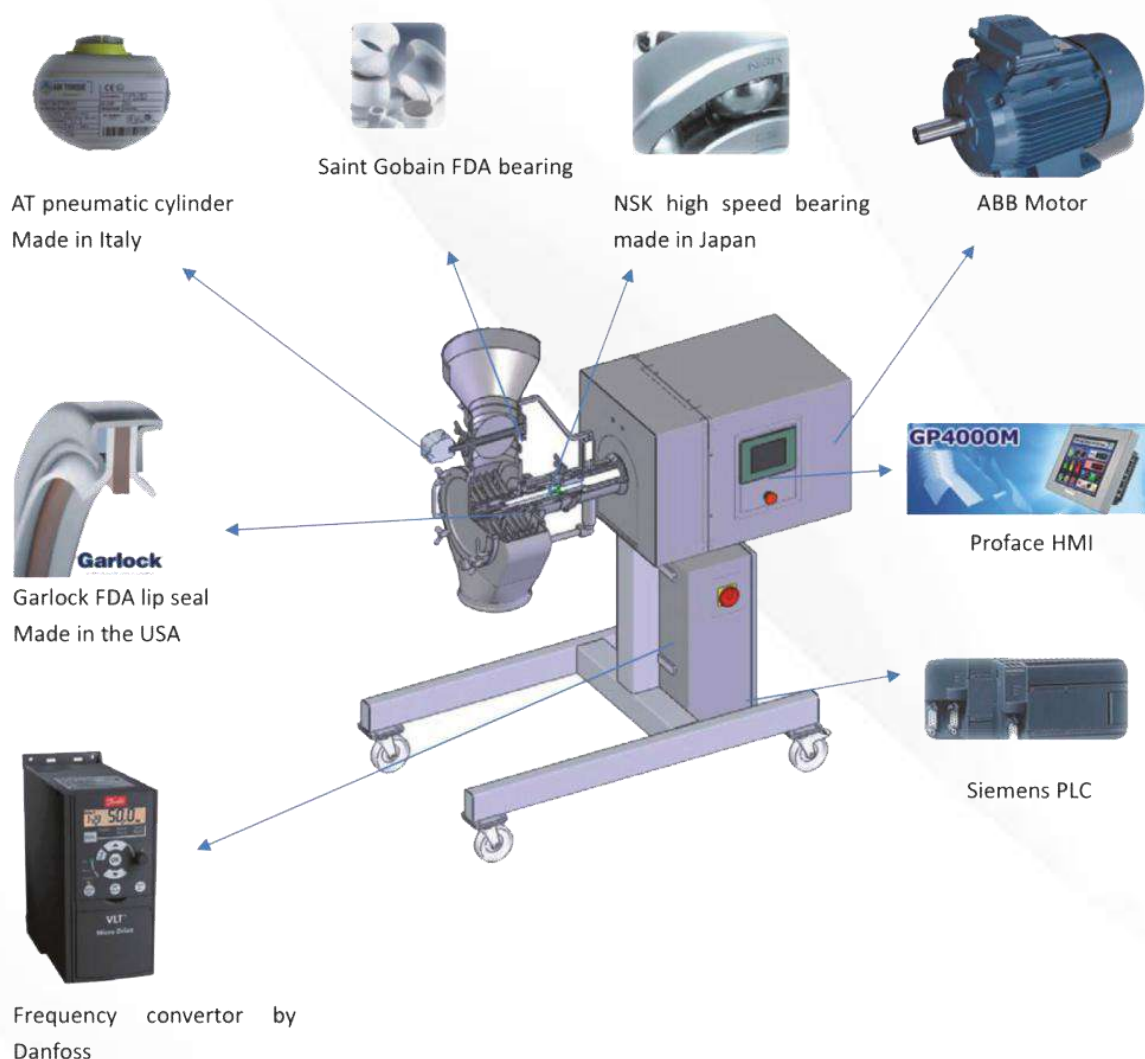
- Modular, compact design.
- Easily change rotor and screen.
- Mobile support stand.
- Lightweight, detachable milling head
- The "Error Proof System" guarantees correct installation and removal of the rotor and screen.

Cleaning according to the strictest health standards:

- Milling head can resist steam sterilization under pressure 2.2 bar.
- The milling head is made from stainless steel 316L. The polished, even surfaces allow the product to flow through without friction and without leaving residues.
- Supports WIP and SIP.
- No outside cable make cleaning easier and quicker.

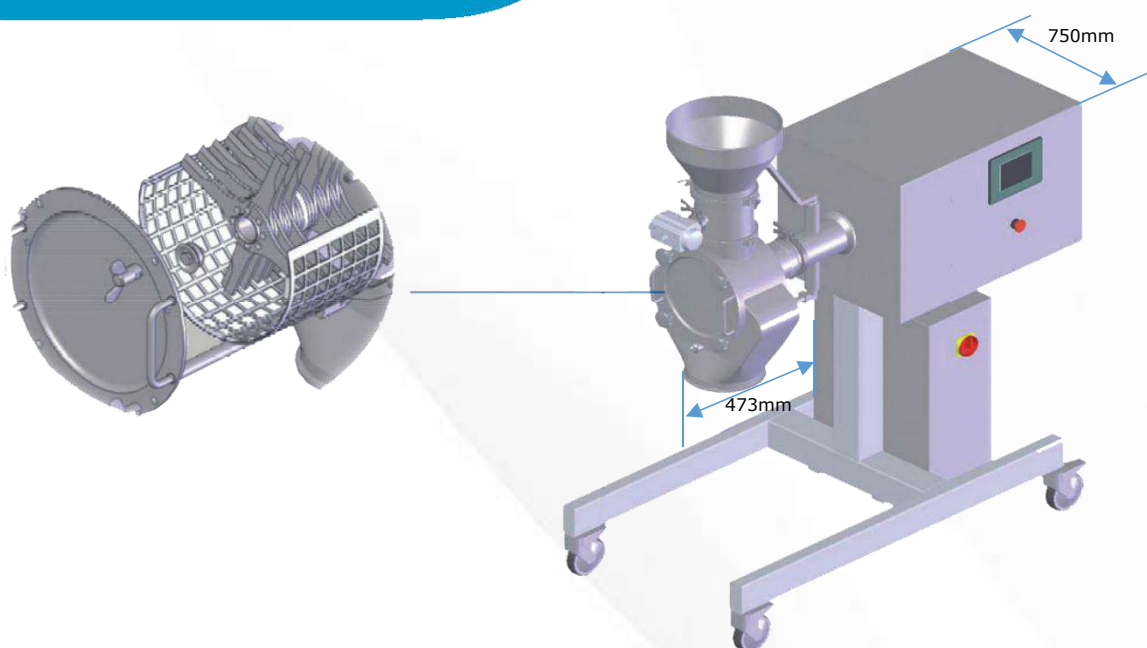


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Execution	Parts in contact with products	Parts not in contact with products
Metal	Stainless steel 316/316L	Stainless steel 304
Seals	FDA compliant plastic(EPDM/PTFE)	Various plastics
Surfaces	Ra<0.4, Polished	Ra<0.8, polished
Weld seams	Ground and polished	Brushed and treated
Rotor	Depending on products, rotor side and hammer side can be chosen	
Screen	Square opening ,size from 0.1mm to 10mm	
Distance of screen and rotor	No mechanical contact	

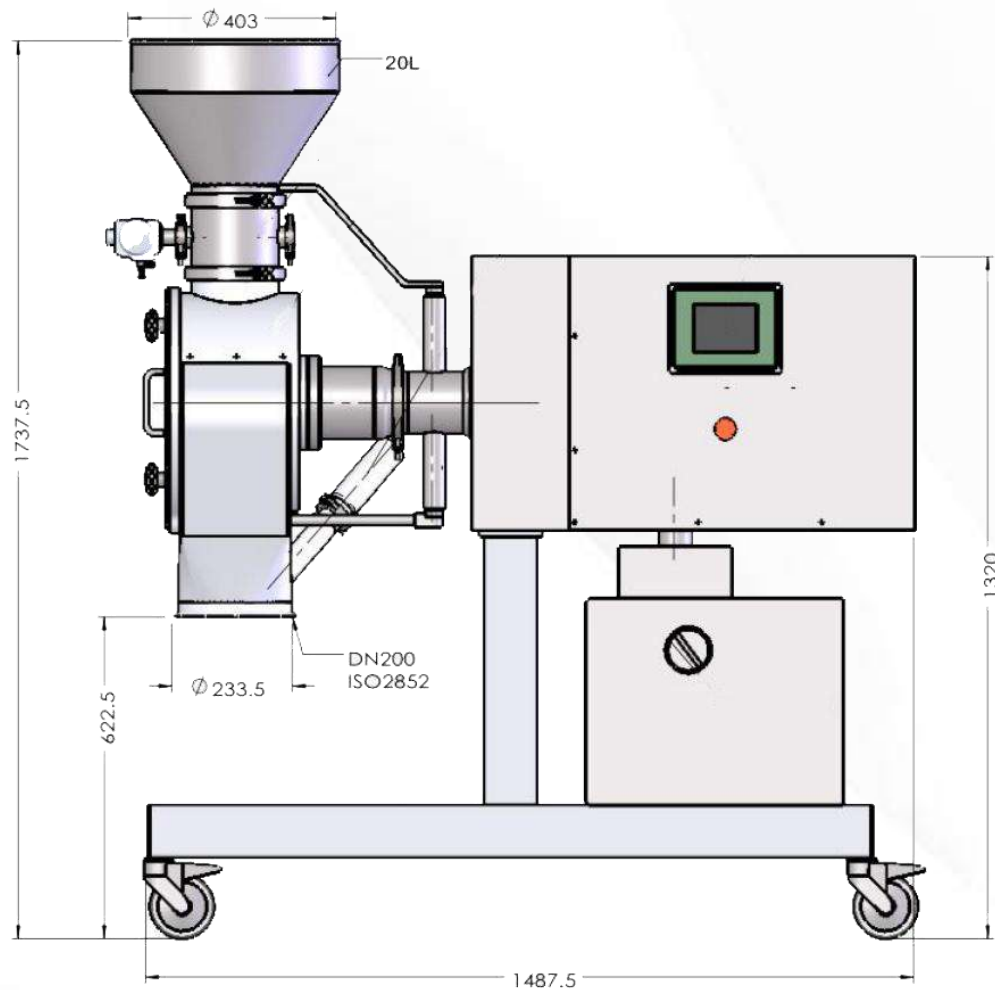
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The throughput and final PSD is decided by material characteristics. The following is performance of the machine regarding to some products for reference:

Product Name	Particle size	Throughput(kg/h)
Vitamin C	100 mesh/150 um	1000
Sugar	100 mesh/150 um	1000
Salt	100 mesh/150 um	800
Ketoprofen	100 mesh/150 um	600
Carbamazepine	100 mesh/150 um	600
Metformin hydrochloride	200 mesh/75 um	480
Anhydrous sodium carbonate	200 mesh/75 um	800
Cefmenoxime hydrochloride	300 mesh/50 um	400
Amino acid mixture	150 mesh/100 um	700
Cefminox sodium	200 mesh/75 um	600
Levofloxacin	300 mesh/50 um	500
Sorbitol	80 mesh/200 um	360
Hydrochloric acid to whalen	200 mesh/75 um	200
Clozapine	100 mesh/150 um	800
Sorbitol	100 mesh/150 um	600
Cefuroxime sodium	80 mesh/150 um	500

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Technical Data	HM-400
Throughput	50-2400 kg/h
Speed	Max.6000rpm
Voltage	380V 50Hz
Power	7.5 Kw
Weight	~300Kg

SaintyCo Also Offer:

- Cone Mill
- IBC Blending System
- Coating Systems
- High Shear Mixer Granulator
- Roll Compactor
- Tablet Compression Solutions

For additional information, please drop E-mail to info@saintyco.com

