

FREWITT 

POWERMILL

PMV-320



WE
CARE
ABOUT
MILLING

WWW.FREWITT.COM



This technology is patented and owned by Frewitt. Any infringement of our rights will be subject to immediate legal action.

POWERMILL PMV-320



The PMV-320 Pin Mill enables users to achieve unprecedented performance while removing all risks encountered during milling. Frewitt proposes a new Gold-Standard in terms of safety for the user: low stable process temperature preserving API-properties, consistent PSD and the elimination of explosion risk in the smallest possible footprint. (PATENT PROTECTED)

FREWITT YOUR IDEAL CHOICE

1

Provides scalable solutions combining micronization and containment

2

Solutions that will optimize your production time and increase the efficiency of milling and micronization

3

Optimized investment with anticipation of your future needs

4

Designed to ensure your safety

5

Machine developed with our commitment
FREWITT CARES ABOUT YOU

USER BENEFITS

Competitors require several footprints, Frewitt needs only one single in-line platform.

- Unique high impact Pin Mill, delivering a PSD range down to $D_{90} < 6\mu m$
- Throughput up to 1000kg per hour
- Compatible for 0/20 ATEX – removal of traditional zone risks due to the process on the vacuum
- Process can be easily contained up to OEB 5
- Elimination of noise

- Extremely low process temperature elevation
- Less product retention than competing technologies
- Lowest consumables requirement for this type of process in the market
- Compact assembly for easy in-line integration
- Adaptable to mezzanine or multi-floor executions
- Scalable to Frewitt Lab Scale / Pilot Scale Pin Mill systems
- Best cost / value ratio in the market



GET MORE FOR YOUR MONEY

A first ever, all in one concept:

- Absence of air flow
- No need of additional cyclone filter or separator
- Reduced product retention
- Easy top-down cleaning
- Reduced product contact surface area
- Less energy consumption
- Shortest product residency time, PSD achieved in one pass.
- API properties remain perfectly protected
- Flexibility of modular arrangement
- Lower operating cost, superior Roi versus competing technologies



<69dBA

<69dBA



PSD <6µm

PSD 90 <6µm



NO EXPLOSION

0 RISK



LOW ΔT

LOW ΔT



UP TO OER 5

OEL <1µg/m³

ALL THE ABOVE EXCLUSIVE
BENEFITS IN ONE PLATFORM
NO COMPROMISES!

POWERMILL PMV-320



PROCESS CHARACTERISTICS



End fineness
down to D 90 < 6 μm



Throughput
50–1000 kg/h



Temperature range of product
-20°C to +60°C



Product density
up to 2.5 Kg/dm³

TECHNICAL CHARACTERISTICS



Material

AISI 316/316L - Ra≤0.8 μm
Interior

AISI 304/304L - Ra≤3.2 μm
Exterior

EPDM/PTFE/Silicone
In product contact,
certified FDA




Dimensions & Weight

Length	3000 mm
Width	3000 mm
Height	5000 mm
Net weight	2500 kg

EXECUTIONS



Standard

-  ATEX 0/20 Int.
- Pharma execution GMP/FDA
- Fully automated system
- Integrated dosing system
- Integrated vacuum pumps
- Integrated cooling system
- Integrated conveying system
- Level / pressure / temperature sensors
- Inline process = reduce footprint



Optional

- Automated WIP cleaning
- Customized inlet charging & discharging of product
- OEB level up to 5
- Specific custom tooling
- In-line sampling device
- Automated cleaning skid
- 21 CFR part 11 / GAMP 5
- Flexible arrangements: customized mezzanine or multi-floor execution
- SMEPAC Test



WORLDWIDE PRESENCE



FREWITT HEADQUARTERS

Frewitt manufacturer of machines Ltd.

Route du Coteau 7
1763 Granges-Paccot
Switzerland

Postal address

P.O. Box
1701 Fribourg
Switzerland

P: +41 26 460 74 00
info@frewitt.com
www.frewitt.com

**Frewitt Pharma Machinery
(China) Co. Ltd.**

1029 Shenfu Road,
Xinzhuang Industrial Zone
201108 Shanghai
China

P: +86 21 548 32950
info@frewitt-china.cn
www.frewitt-china.cn

Frewitt USA, Inc.

249 Homestead Road,
Building 5, Unit 8
Hillsborough, NJ 08844
USA

P: +1 908 829 5245
info@frewitt-usa.com
www.frewitt-usa.com