

FREWITT 

# POWER MILL

## PMV-320



WE  
CARE  
ABOUT  
MILLING

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# 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 proper-ties, consistent PSD and the elimination of explosion 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  $D_{90} < 6\mu\text{m}$
- Throughput up to 1000kg per hour
- Compatible for 0/20 ATEX – removal of traditional zone risks due to the process under vacuum
- Process can be easily contained up to OEB 5
- Rotor tip speed up to 250 m/s (depends on application)

- 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**



**PSD 90 <6µm**



**0 RISK**



**LOW ΔT**



**OEL <1µg/m<sup>3</sup>**

ALL THE ABOVE EXCLUSIVE  
BENEFITS IN ONE PLATFORM  
NO COMPROMISES!





EN 837-1

bar CL 1.0

FREWITT F

GP

316



# POWERMILL PMV-320



## PROCESS CHARACTERISTICS



### End fineness

Down to D 90 < 6  $\mu\text{m}$

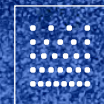


### Throughput

50–1000 Kg/h



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



### Product density

Up to 2.5 Kg/dm<sup>3</sup>

## TECHNICAL CHARACTERISTICS



### Material

AISI 316/316L - Ra≤0.8  $\mu\text{m}$   
Interior

AISI 304/304L - Ra≤1.4  $\mu\text{m}$   
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



### Options

- 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



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