FREWITT

FREDRIVE-LAB

多功能实验机

NANOWITT-LAB

纳米实验机系列

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ABOUT
MILLING

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NANOWITT-LAB
纳米实验机
HIGH MILLING EFFICIENCY
高效研磨

The NanoWitt-Lab is a high-performance bead mill engineered specifically for wet nano milling of pharmaceutical products down to D50 of 50 nanometer.

The modularity of the milling chamber lends itself for processing batches ranging from milligrams of solids up to 1.5 kg. Short milling time at lower specific energy allows a gentle product processing and a tight particle size distribution.
The device's compact design facilitates easy integration and quick set-up in any laboratory.

纳米实验机是高效能的滚珠研磨机，特别用于D50低至50纳米的湿性制药产品的研磨粉碎。
模块化的粉碎腔可处理从几毫克至1.5公斤的不同批次范围的固体。在特定低能量下，研磨时间缩短，使得产品处理过程平缓，粒径分布紧凑 。设备的可兼容设计促使系统集成简单，在任何实验室可实现快速安装设置。

PROCESS DATA 工艺数据	
Particle size range: 粒径范围	D50 down to 50 nm D50低至50纳米
Batch size: 批量大小	from milligrams up to 1.5 kg of solids 从几毫克至1.5公斤固体
Temperature: 温度:	accurate processing temperature control 加工温度控制精确

Compact foot print of (700 x 800 x 700 mm / L x E x H)
底盘尺寸（700x800x700mm/长x宽x高）

THE CHARACTERISTICS OF THE NANOWITT-LAB

- High efficiency mill operating at low rotor tip speed
  转子端低速运行下的高效研磨功能
- Intensification of comminution process, high mixing and homogeneity
  强化研磨过程，全面混合，粉碎均匀
- Dynamic separation system (patented) with no filter and thus no clogging
  动态分离系统（专利技术），不带过滤器，因此无阻塞
- Optional in-line & real-time PAT solutions for size measurement
  可选择在线或实时PAT方案进行粒径测量
- GMP design combining simplicity of use, efficient beads handling and high product recovery
  GMP标准化设计与使用便捷性相结合，滚珠处理效率高，产品回收率高
- Easy cleaning Washing-in-Place (WIP) and quick tool-free access to internal components
  容易在线清洗，无需工具即可快速拆卸内部构件
- Multiple operation modes (batch, semi-batch for filling/emptying, external recirculation)
  多功能运营模式（批量，半批量加料/清空，外部再循环）
- Simple and easy integration of the milling head into a rigid or flexible isolator
  简易地实现研磨头与刚性或柔性隔离罩的组合
- Very broad scope of application for all types of powders
  针对各类粉剂应用广泛
- Milling head readily interchangeable on a single Tri-Clamp connection flange
  通过快装卡箍连接法兰可随时更换粉碎头
- Light, compact milling head
  轻便小巧的粉碎头
- Quick, efficient and simple cleaning of the milling head
  粉碎头的清洁快速、简便、高效

40
30 min
20

FREWITT

WORLDWIDE PRESENCE
全球概览

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