



# FREDRIVE-LAB

**FREWITT** 

A REVOLUTIONARY NEW MODULAR LABORATORY MILL SYSTEM, FOR THE PROCESSING OF DIFFERENT POWDERS & MATERIALS

**The FreDrive-Lab, a worldwide-patented innovation, is Frewitt's newest offer to R&D and analytical laboratories in the fields of pharmaceuticals, food, cosmetics and fine chemicals. This new system brings unmatched flexibility - with a single tri-clamp connection, FreDrive-Lab allows the implementation of five different milling technologies!**

**The five milling heads; the conical sieve mill, cylindrical sieve mill, oscillating mill, hammer mill and pin mill are all integrated into a single equipment, making the FreDrive-Lab extremely efficient and cost-effective.**

**A limited footprint and simple electrical connection facilitates the integration in all existing Labs - decide today for the unique solution, efficient and exclusive FreDrive-Lab!**

## OVERVIEW OF THE ADVANTAGES OF FREDRIVE-LAB

- The equipment was designed for and in collaboration with, the pharmaceutical, food, cosmetic and fine chemical industries
- 5 milling processes in a single system (conical sieve mill, cylindrical sieve mill, oscillating mill, hammer mill and pin mill)
- Simple, flexible and upgradable, thanks to the device's modular concept
- Reduction of particle size  $D_{90} < 20$  microns
- Production rate of 50gr to 30 kg/h (depending on the treated product)
- Scale-up guarantee with our production equipment FreDrive
- Milling heads available in ATEX zone 1-21
- 5" Touchscreen
- Alarm monitoring
- Configuration of the machine via Touchscreen Setup
- Intuitive, user-friendly and powerful HMI program in 3 languages (FR / DE / EN), for the easy adjustment and validation of the milling process
- HammerWitt-Lab with dosing system directly integrated at the inlet of the milling head





Particle size range

2 cm - 250  $\mu$ m

## OSCILLOWITT-LAB

The oscillating and rotating OscilloWitt-Lab sieve mill is used for the gentle milling and deagglomeration of heat-sensitive and difficult-to-process products to a fineness of 250  $\mu$ m.



Particle size range

1 cm - 150  $\mu$ m

## CONIWITT-LAB

The ConiWitt-Lab is a conical sieve mill. It is used for the deagglomeration and milling of granular products to a fineness of 150  $\mu$ m.



Particle size range

5 cm - 150  $\mu$ m

## TURBOWITT-LAB

The TurboWitt-Lab is a cylindrical sieve mill for the laboratory. Having a rotating sieve drum; it is well-suited for homogenizing and control-sieving granular products to a fineness of 150  $\mu$ m.



Particle size range

1 cm - 30  $\mu$ m

## HAMMERWITT-LAB

The HammerWitt-Lab is a hammer mill that guarantees optimal milling results in the fine milling and pulverization of hard, crystalline, and fibrous products to a fineness of 30  $\mu$ m.



Particle size range

2 mm - 10  $\mu$ m

## PINMILL-LAB

The PinMill-Lab is a high power PinMill for pulverizing hard, crystalline products to a fineness of 10  $\mu$ m.