

VHF.50.19

Volumetric Hopper Feeder



Sample
Automation





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Due to the fast expansion of the Cannabis industry in the USA, the demand for increased production processes is exceeding manual labor capabilities and the need for bulk handling of bio mass is rapidly increasing. Sample Automation are offering clients an innovative new technology to help expand on bulk handling of milling systems – the VHF.

Application

- Optimizing particle size & distribution for CO₂ or EtOH extraction yields
- Creating material for premium pre-rolls
- Applicable in a multitude of industries including Cannabis and Hemp industries



VHF Performance Advantages

- Quick, tool free adjustable, controllable particle size output
- Tight particle size distribution
- Reproducible performance regardless of end user
- High throughput, continuous processing with an average of between 1-8 lb. per min
- Dust-free, easy to clean, stainless steel product contact surfaces
- Negative Pressure Exhaust system provides heat mitigation and prevents resin build up
- Continuous processing with processing timer to reduce heat wear with overuse
- Certified food grade specifications of 304 and 316 Stainless Steel

How it works

The Automated Volumetric Feeding system is designed to be used in combination with the Fritsch Milling Grinder. Materials can be self-fed into the Cutting Mill at variable speeds based on custom recipes, stored in the system's internal memory. These can be amended and optimized on the system's 5.7" touch screen. The VHF can also control all peripheral functions for the Cutting Mill accessories such as the cyclone separator and the Negative Pressure Particle Removal System. This can be expanded for Industrial Automation to control all functions of a large scale operation on continuous feeding and milling.

VHF Specifications

- 🔧 Stainless Steel Controller Enclosure
- 🔧 Stainless Steel Operator Interface Enclosure
- 🔧 Milled Product Collection Container
- 🔧 Feeder Product Detection Sensor – detects blocked or empty Hopper
- 🔧 Recipe Selection
- 🔧 Light Stack Indication
- 🔧 Rotor speed 300-3000 rpm, variable adjustable
- 🔧 Corrosion-resistant stainless-steel version 316L available
- 🔧 Maintenance-free 5 kW three-phase motor with frequency converter
- 🔧 3 versions of Cutting Mills available; 110v, 220v, 400v
- 🔧 Available in 2 versions: Stainless Steel or Aluminium Caged Enclosure



Why choose the VHF

Based on data gathered during initial trials, Sample Automation's VHF can provide clients with a fully automated Cannabis Milling process, reducing operational costs and production times by up to 50%. Consistent throughput of between 1lb and 8lb per minute, depending on product, makes the milling process less labor intensive, frees up employees for more efficient tasks. The VHF improves product consistency with batch to batch reproducibility and helps improve extraction yield & quality. It is an affordable, effective option for milling of biomass at high throughputs for solvent extractions with no compromise on production output quality.

Frequently Asked Questions



What is the feed consistency?

4lb/minute consistent speed with dried flower material. With optimum input material the system can go as high as 8lb at peak. Performance may vary based on moisture content, nature of starting material and desired final particle size.



Are Cannabinoids & Terpenes Preserved?

Yes. As a continuous milling system (vs. a closed batch system like a blender or wire trimmer), the P-19 Cutting Mill does not exert any heat load on Cannabis material. The precision cutting mechanisms ensure rapid particle size reduction with minimum exposure to physical damage. With the addition of the VHF the consistent feed rate allows for the process to run at the optimal rate of throughput.



Is it easy to clean?

Yes. Contact surfaces are all made out of stainless steel. This results in a dust-free, easy to clean product, reducing the risk of cross-contamination. The cutting chamber opens fully which allows for easy access to cleaning all around. The P19 is also available in a full Body 316L version.



How much do they cost?

The system can be optimized based on client specific requirements and can come with a range of accessories for optimal functions. Costs may vary depending on requirements. We are happy to work with our clients to determine specific needs and assess what would work best for their production.



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Schlage Lock Company
10000 W. 10th Avenue, Suite 100
Denver, CO 80202
P.O. Box 10000
Denver, CO 80202
Tel: 303.751.1000
Fax: 303.751.1001
www.schlage.com

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FRITSCH

Sample Automation LLC

6 Winnisquam Avenue

Laconia

USA

NH 03246

 +1 (603) 800 1799

 sales@sampleautomation.com



www.sampleautomation.com

