

SAMS.19.01

Stand-Alone Milling System



Sample
Automation





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The demand for an increase in automated production processes is constantly on the rise within the Cannabis and Hemp industries in the United States. Sample Automation are offering their clients their newest - and affordable - alternative to help meet clients' increased production needs - the SAMS.

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



SAMS Performance Advantages

- Quick, tool free adjustable, controllable particle size output
- Tight particle size distribution
- Reproducible performance regardless of end user
- Medium throughput, continuous processing with an average of between 1-3 lb. per min dependent on material
- Dust-free, easy to clean, stainless steel product contact surfaces
- Negative Pressure Collection 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

Sample Automation's Stand-Alone Milling System is an automated milling and exhaust collection system. The SAMS works in combination with the Fritsch P19 Milling Grinder and is the first step into the automated world of bulk handling of biomass. 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 SAMS can also control all peripheral functions for the cutting mill accessories such as the cyclone separator and the Negative Pressure Particle Removal System as well as product monitor and detection sensors.



SAM Specifications

- Stainless Steel Controller Enclosure
- Stainless Steel Operator Interface Enclosure
- Milled Product Collection Container
- Recipe Selection
- Light Stack Indication
- Rotor speed 300-3000 rpm, variable adjustable
- Corrosion-resistant stainless-steel version 316L cutting mill available
- Option to upgrade

SAMS Comparison Chart

| | Stand-Alone Milling System | Volumetric Hopper Feeder |
|---|----------------------------|--------------------------|
| Stainless Steel version 316 available | ✓ | ✓ |
| Dust-free, easy to clean | ✓ | ✓ |
| Heat Mitigation | ✓ | ✓ |
| Food Grade | ✓ | ✓ |
| High throughput with continuous average of up to 8 lbs. per min | ✗* | ✓ |
| Fully automated | ✗** | ✓ |

*The throughput of the SAMS runs at a continuous average of between 1-3 lbs. per minute dependent on material and density.

**The SAMS machine is fully automated with the exception of the filling of the feeder which has to be done manually.

Why choose SAMS

The Stand-Alone Milling System is Sample Automation's introductory processing system, perfect for clients with the need for increased production in a budget friendly way. The SAMS improves product consistency with batch to batch reproducibility and helps improve extraction yield & quality. This is the perfect system for smaller productions or for businesses taking their first step into the industry. It is easily adaptable to client specific requirements and can be upgraded to fulfil increased production needs down the line.

Frequently Asked Questions

Is it easy to clean?

The SAMS is a dust-free, easy to clean product. It has a reduced risk of cross contamination with all contacted surfaces consisting of stainless steel. 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.

Are Cannabinoids & Terpenes Preserved?

Yes. The P-19 Cutting Mill does not exert any heat load on Cannabis material due to it being a continuous milling system, as opposed to a closed batch system like a blender or wire trimmer. The precision cutting mechanisms ensure rapid particle size reduction with minimum exposure to physical damage.

How much do they cost?

As the introductory system to what Sample Automation have to offer, the Stand-Alone Milling System is Sample Automation's most cost effective option. The system can be optimized based on client requirements and prices may vary depending on the choice of accessories for optimal functions. Sample Automation aim to work with our clients in order to determine specific needs and assess the best solutions for improved production.



Working closely with like-minded businesses we aim to provide innovation, bespoke solutions and top quality services for clients of any size company. Contact our sales team for more information!



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