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High Shear Mixers/Powder Mixers/Mills/Granulators/Roller Compactors FitzMill M5A

Images





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Product details

Category:	High Shear Mixers/Powder Mixers/Mills/Granulators/Roller Compactors
Machine:	M5A
Machine code:	23-986
Manufacturer:	FltzMill
Year of construction:	n/a

Description



FitzMill™ comminuting machines are recognized worldwide as the industry standard for precision particle size reduction. The D6A FitzMill is ideal for use in continuous or batch production, research, and product development as the following features highlight:

- Wide range of process possibilities
- Predictable and consistent end results
- Easy to clean
- Compact GMP design
- Directly scalable to larger units
- Quiet operation
- Low dust and low heat

The in-wall and on-wall configurations of the VFS-D6A are designed to contain the drive motors in a separate room or technical area. This leaves only a few easily disassembled product contact parts in the process area.

Metered Feed

The metering feed system of the VFS-D6A can greatly enhance the milling process by providing improved product uniformity, and the elimination of operator variables, as well as complete process repeatability.

In-Wall Design (VFS - Variable Feed Screw)

Gravity Feed

The FitzMill process chamber is often fed simply by gravity. The S-Pan and VHP D6As, along with the SPV Cabinet Base D6A provide optimal GMP when gravity-fed milling is desired.

The RP Cabinet Base M5A incorporates the feed pan and feed throat in one piece. The cabinet base design also integrates the base and controls into a self-contained portable unit.

D6A also available in this configuration.

The VHP D6A featured above employs a large feed pan which is separate from the feed throat. The VHP design is ideal for efficient feeding of large material.

The Product Containment System (PCS) is designed to contain the product inside the process components in order to prevent airborne dust from escaping into the atmosphere. A second objective of this system is to facilitate operation in an inert environment. The method used to contain the product is similar to isolator technology. The process area is kept under a slight negative pressure to ensure that no powder migrates to the outside.

Fitzpatrick has incorporated many exclusive features to ensure a tightly sealed machine, which is critical to this design; however, a number of other components are also required to allow for effective operation. The PCS uses several primary filters in the machine discharge. These filters are connected to a vacuum system which maintains the proper condition inside the processing chamber. A Fitzpatrick exclusive backpurge cartridge (patented) is utilized to draw process gas in from one filter, in order to backpurge and thereby clean another filter.

Benefits of This New Patented System:

- Backpurge cartridge is effective at keeping filters clean without pressurizing process area
- Inert processing with atmosphere monitoring and control is possible with minimal nitrogen consumption (ATEX compliant)
- PCS components are easy to clean and filters are disposable
- Minimal internal surface area with vertical orientation reduces product hang-up and loss
- WIP System available to wet product surfaces after processing

The RV D6A PCS with remote electrics (controls not shown) includes a rotary valve feed system.

The process area is well-sealed and operating under a slight vacuum. The containment challenges is to ensure product doesn't escape the system as it is brought to and away from the machine. This is done



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through the use of containment valves or other techniques as required to feed and discharge the product in a contained system.