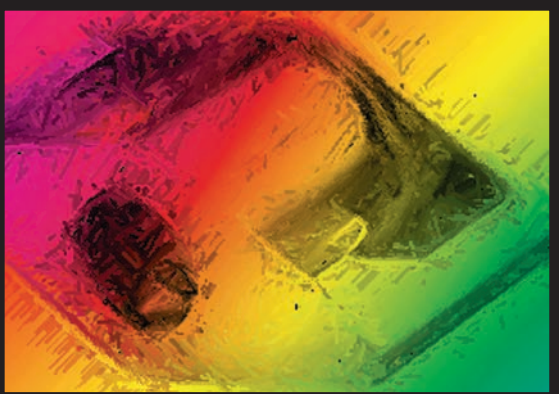


D6A & M5A FITZMILL™

FITZ®MILL



**THE
FITZPATRICK
COMPANY**

D6A FITZMILL™

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

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.

(VFS - Variable Feed Screw)



In-Wall Design

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.



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 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.

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.



Cabinet Base M5A With RP Throat

CONTAINMENT AND INERT PROCESSING

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.

*The RV M5A PCS FitzMill
Shown In Bin-to-Bin
Configuration*



The VFS D6A PCS LB includes the electrics mounted in an enclosure that is integral to the machine base. The upper section is available with an adjustable height feature.

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 challenge is to ensure product doesn't escape the system as it is brought to and away from the machine. This is done through the use of containment valves or other techniques as required to feed and discharge the product in a contained system.

RV - Rotary Valve

Isolator Mount Available For Additional Safety

For situations where additional levels of containment are required, contained equipment can be customized to facilitate installation in Barrier Isolators, Laminar Flow Booths, or other containment systems. These types of installations are particularly convenient for containing laboratory equipment where components are relatively small and products being processed may be unknown.



Isolator Designs Available

FLEXIBLE



Rotor Features

D6A versatility is enhanced with its one-piece, reversible knife/impact rotor. The impact edge pulverizes, emulsifies and purees, and the knife edge granulates, chops and sizes. Switching from knife to impact is accomplished simply by reversing the rotor.

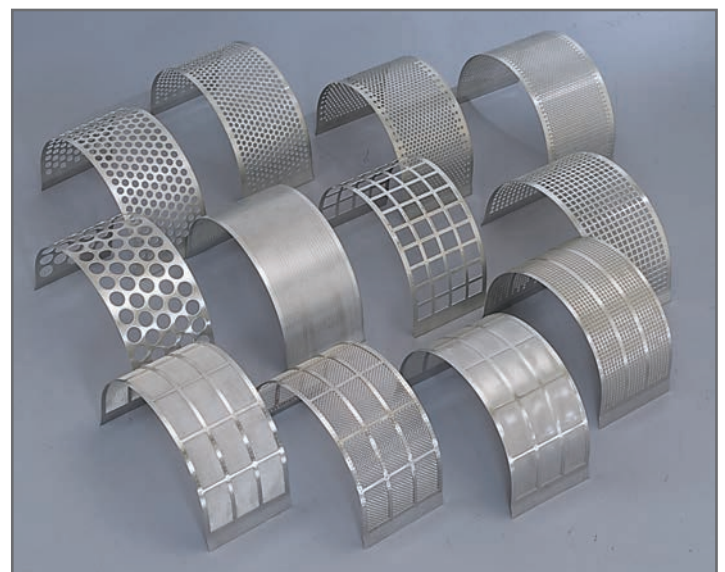


Bar Rotor

The comminuting bar rotor operates at a low speed and reduced energy level. Creating a sifting action close to the screen without contact, the bar rotor gently granulates and delumps.

Screen Variations

An extensive selection of screen types and sizes accommodates your particle size requirements. Screens are available with openings from 0.30mm/.012in to 38mm/1.5in, with round or square perforations, diagonal or straight slots, or in wire mesh.



EASY TO CLEAN

FITZ[®]MILL

Clean-Up & Assembly

Each disassembled component weighs less than 10kg/22lbs. Complete disassembly for inspection and cleaning can be accomplished by a single person, in minutes.



A single operator can disassemble the D6A quickly and easily for thorough cleaning.

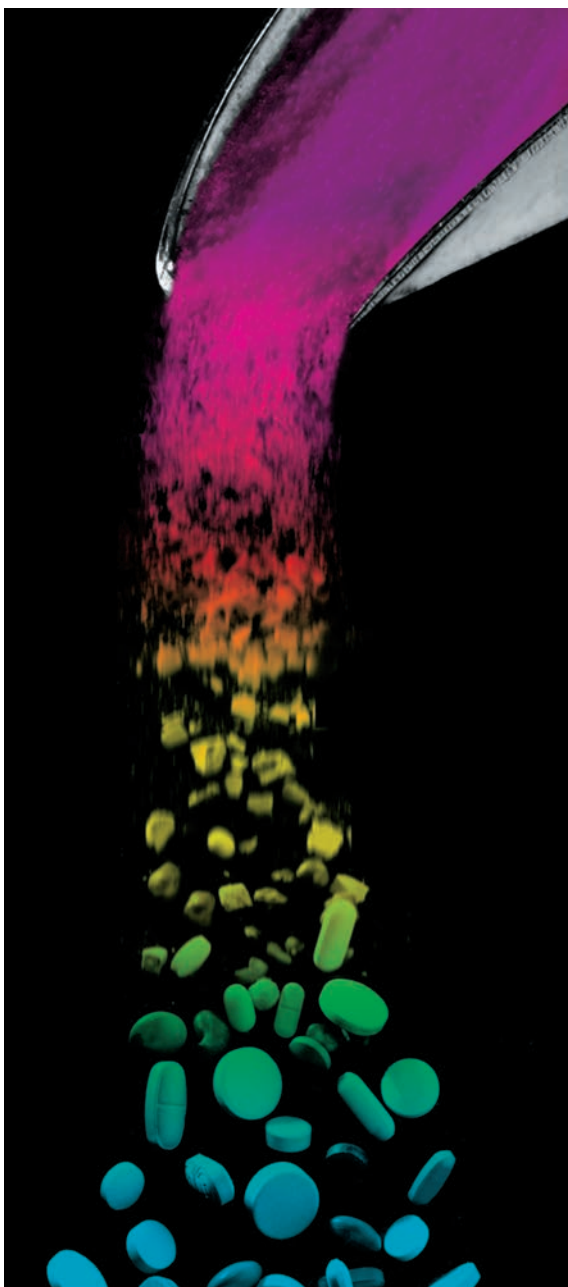


VFS-Feed Hopper

The metering screw and hopper which precisely controls the feed rate to the VFS-D6A disassembles into five separate components for quick and easy clean-up and assembly.



Process chamber disassembles into seven easy-to-clean components.



THE FITZPATRICK COMPANY

A Tradition of Invention in Particle Forming Technology

In the 1930s, the Fitzpatrick Company pioneered the development of particle size reduction technology. 20,000 machines and 10,000 customers later, Fitzpatrick upholds that tradition of innovation by continuing to manufacture the world's most advanced processing equipment.

Pharmaceutical, Chemical, Food, Plastics and other industries utilize a wide range of Fitzpatrick machines, including FitzMill™ Comminutors, and Chilsonator® Roll Compactors. Each Unit is built to stringent quality standards to operate under the most demanding manufacturing conditions.

The Fitzpatrick Company maintains manufacturing facilities, test laboratories, and service/support offices in Elmhurst, Illinois.



FITZPATRICK®

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