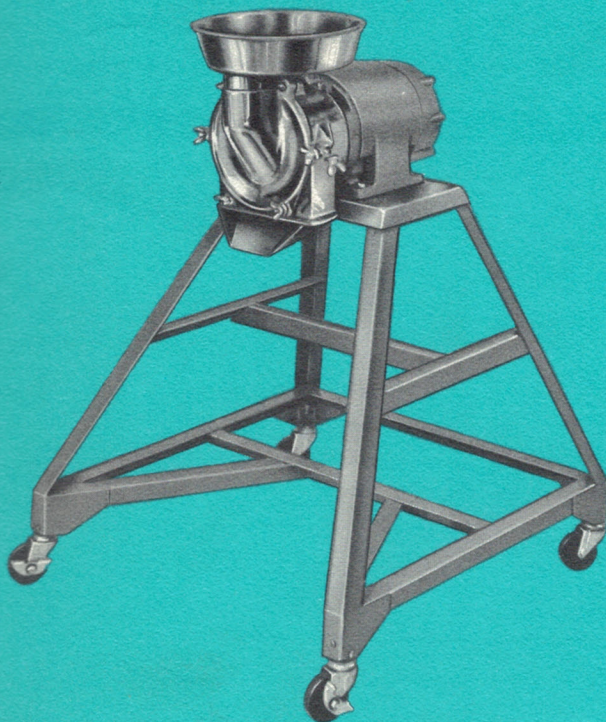


FITZ[®]MILL

Bulletin
No. 552

MODELS J AND JT
homoloid[®] machines



THE FITZPATRICK COMPANY

832 INDUSTRIAL DRIVE, ELMHURST, ILLINOIS 60126

homoloid[®] machines

IN STAINLESS STEEL FOR PRODUCTION, PILOT PLANTS, AND LABORATORIES

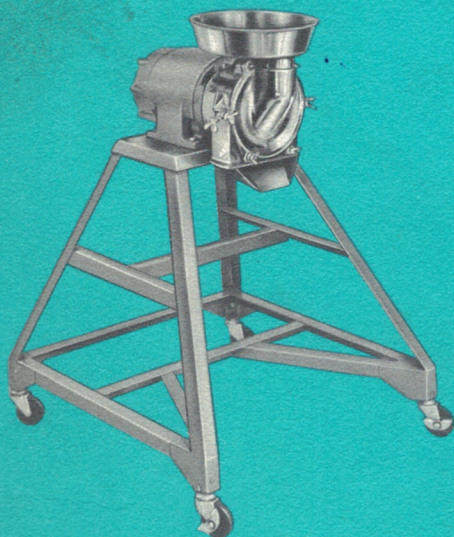
The HOMOLOID[®] embodies a unique design using the basic impact-in-air principle of the Comminutor. The unit is fed axially so that the product path into the rotor blades is similar to an interrupted-face colloid mill. The shear forces and labyrinth path through the rotor provide complete homogenization, with the degree of comminution governed by the selection of blade shape, rotor speed, and screen opening.

Broad processing needs are met in both dry and liquid products through the use of basic features in many combinations.

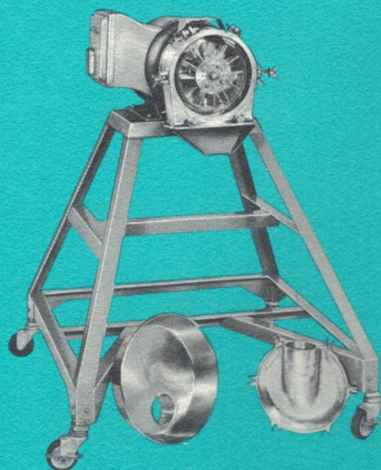
- STABLE EMULSIONS, including the difficult citrus oil bases, are obtained with great efficiency at high speed.
- COLLOIDAL SUSPENSIONS with practically unlimited shelf-life are produced with small power needs through the use of the exclusive "porcupine" rotor.
- OINTMENTS are thoroughly milled and dispersed with liquid inlets and outlets permitting "closed-line" operation.
- WET GRANULATIONS are achieved efficiently and economically through the use of integral, force-fed hoppers.
- DRY AND SLUG GRANULATING is obtained with minimum fines through wide combinations of speeds, blade shapes, and screens.
- PULVERIZING is accomplished under dustless conditions on products ranging from extreme frangibility to elastic characteristics.

Standard features available in both the MODEL J (motor mounted) and MODEL JT (belt driven) include Stainless Steel construction, reversible rotors with dual purpose blades in many styles, sanitary and sterile designs, a wide range of screen openings, and chamber cover inlets for gravity, pump, or screw feed. Sizes range from 3HP to 15HP.

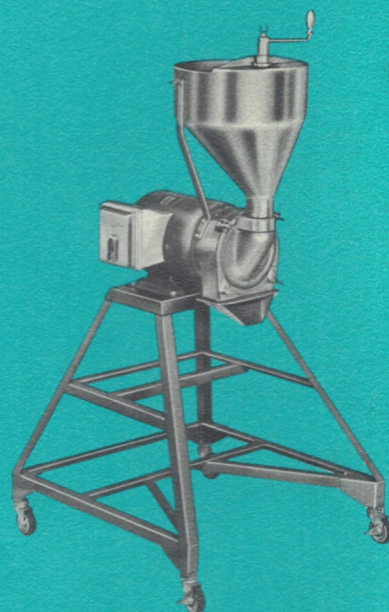
Units illustrating some of the possible combinations are shown in this bulletin.



CODE W-TYPE 17 The basic Model J showing motor-mounted chamber is suitable for liquid and dry products. It is equipped with 12½ diameter Stainless Steel feed pan, 3" opening feed throat with flow control disc. A full selection of all blade designs and screen openings is available. The Stainless Steel platform is mounted on a mobile stand and is available with 3HP motor, 3600 (standard) or 1800 RPM.

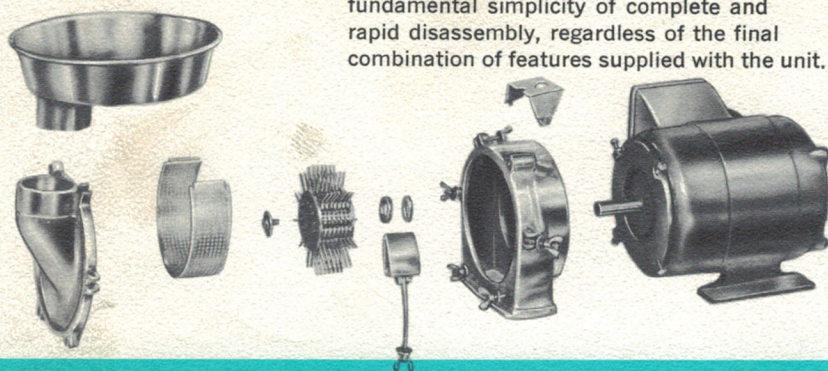


CODE W-TYPE 17 For normal cleaning, simple changing of screens, or reversing the rotor this view of the Model J illustrates how only the chamber feed cover has to be removed. This may be accomplished in seconds by loosening finger-operated wing nuts on swing-bolts.



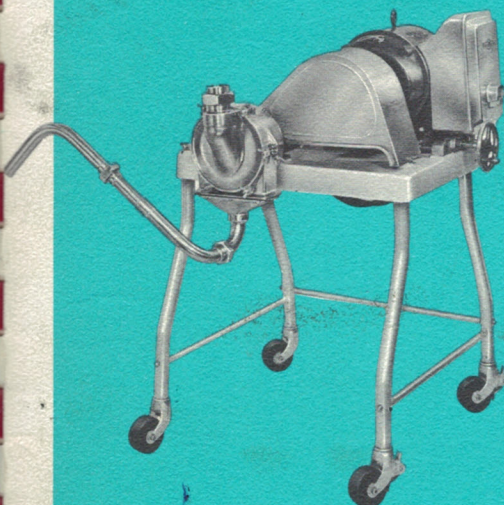
CODE MFL44J The basic Model J Homoloid[®] is equipped with a 20 quart Stainless Steel holding hopper and has a manually or motor operated feed screw. This permits the processing of high viscosity liquids, semi-plastic materials, or chunky solids which cannot be fed by gravity-drop alone.

All **HOMOLOID®** Machines retain the fundamental simplicity of complete and rapid disassembly, regardless of the final combination of features supplied with the unit.

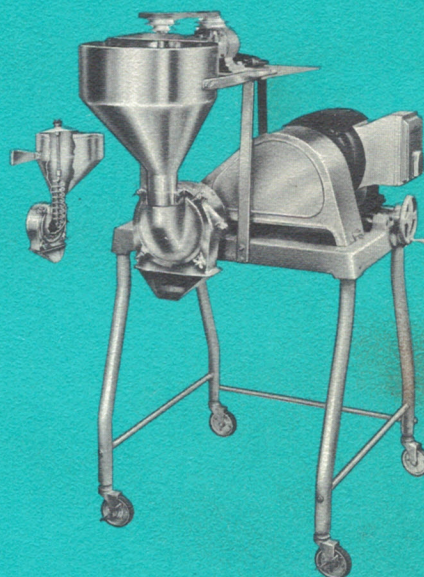


The exploded view illustrates how all operating parts can be disassembled in less than one minute for complete immersion in water or for cleaning with steam, detergents or other chemicals. A further variation illustrated at the lower right provides a sterile design in which the operating parts can be autoclaved as an assembly.

pan



CODE PFH45JT This variation of the basic Model JT is similar to the manual screw-fed Model J except with a 20 quart hopper feed screw driven by 1/4 HP gear motor. Both models may also be equipped with variable speed drives.

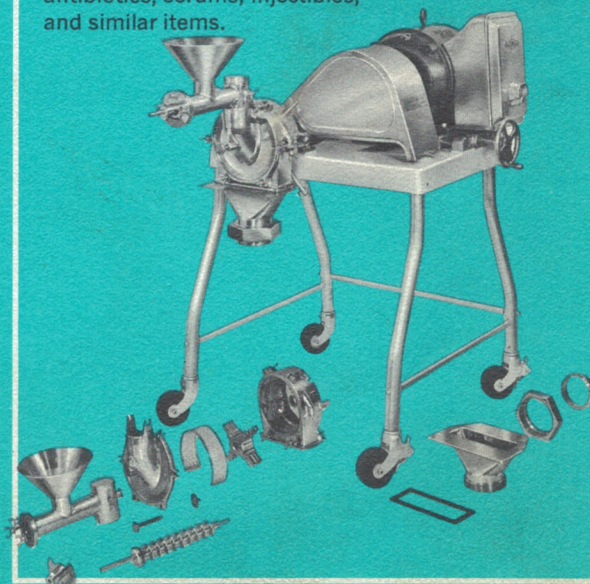


CODE WG-D45JT A variation of the basic Model JT shows the chamber cover with a liquid fitting inlet. The special goose-neck discharge always retains full level in chamber for high efficiency processing.

CODE WD45JT This basic design of the Model JT illustrates a belt-driven chamber, speeds of 3600, 5400, and 7200RPM. Motors from 5HP to 15HP are available. High speeds are ideal for maximum blending, dispersing, or pulverizing. The straddle legs permit mobility while providing the necessary stability without the need of securing to the floor.



CODE SP-FS-SSS45JT The sterile design variation of the basic JT provides for autoclaving of pre-assembled operating parts as a unit. The entire sterile assembly may then be coupled to the rotor shaft by locking it on the spider cage support without destroying the rigid sterile conditions. This unique rotor construction affords the complete absence of joints, seams, and crevices. The screw feed permits the precise control of pulverizing, dispersing, and emulsifying. The Stainless Steel construction with surfaces finished to super gloss makes this unit ideal for antibiotics, serums, injectibles, and similar items.



CODE WD45JT The disassembled view of this machine shows the fixed impact-blade rotor recommended for pulverizing.


FITZ[®]MILL

homoloid[®] SPECIFICATIONS

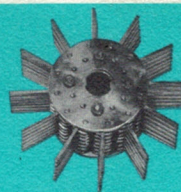
GENERAL: All product contact parts of this equipment are available in Stainless Steel. Mobility is provided by mounting on rugged bases equipped with straddle legs and casters.

MODEL J: Chambers are motor-mounted with single speeds of 1800 RPM and 3600 RPM. Motors are 3HP.

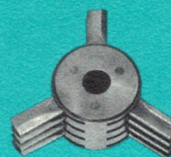
MODEL JT: Chamber Base-mounted for operating speeds of 3600, 5400, and 7200 RPM. Motors of 3HP to 15HP are available. All units are equipped with thermally protected starters.

ROTORS AND BLADES

The wide variety of rotor and blade combinations illustrated can be used on any model HOMOLOID[®] to provide a style most efficient for each specific liquid and dry operation. Wear-resisting Fitz Metal facings and inserts are available when required.



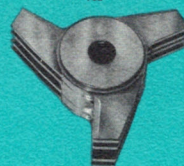
FIXED PIN
Code 80 1/8" Square Pin
Code 160 3/2 Round Pin



Code 1125 Impact
Code 1225-FM Knife-Impact
Code 1425 Knife



FIXED
Code 2100



FIXED
Code 2150
Code 2250



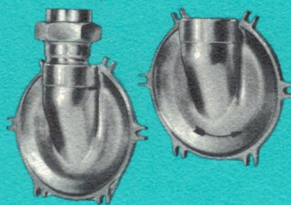
STERILE, SOLID, FIXED
Code 4125 Impact
Code 4225 Knife-Impact



SPLINED FIXED
Code 3575

CHAMBER COVERS

The chamber covers illustrated are used for pan, liquid, and screw feeds. Other designs are available.



DISCHARGES

Many discharge designs are available for specific needs.



SCREENS

Stainless Steel screens, both perforated and mesh, in more than 100 selections are carried in stock for immediate delivery. Screen area of 2" x 16", 2" x 8", and 2" x 4" are standard, with special areas custom made.



Modern fully equipped laboratories are maintained for testing products. Laboratories in South Plainfield, New Jersey and Elmhurst, Illinois, are conveniently located for your evaluation of this equipment without obligation. Verification of recommendations on FitzMill[®] equipment and systems permit accurate scaling for assured plant performance providing industry with the most advanced and highest efficiency equipment.

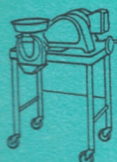


equipment is designed to meet many specific requirements. A few of these machines are described below. Individual bulletins are available upon request.



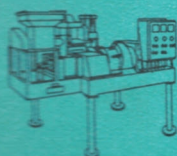
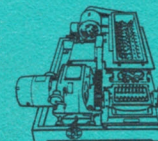
COMMINUTOR . . . for universal, all purpose size reduction and blending of dry materials, liquids or mixtures of these.

PRE-BREAKING . . . varied design principles for initial pre-breaking of bulk, pressed, frozen, or baled products preceding further processing.



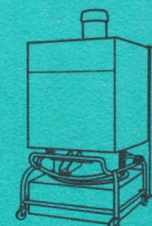
HOMOLOID[®] . . . primarily adapted to production of emulsions, colloidal suspensions, dispersions, and ointments, but also applicable to dry products.

PROPORTIONING-BLENDING . . . multi-function units provide continuous proportioning and intimate blending with granulation of fine grinding when desired.



CHILSONATOR[®] . . . for instantaneous, continuous compacting of powder by pressure alone.

DRYING EQUIPMENT . . . fluidized bed drying for fast and efficient drying of granular materials.




THE FITZPATRICK COMPANY

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