PROCESSALL

Cocoa & Chocolate

Save space and time with Processall's Pretovac Reactor

Processall's Chocolate Processor is capable of performing as a combination mixer, refiner and conch. The fluidized bed mixing, combined with built-in extra high shear mills, provides the chocolate industry with the most universal tool. This one processor reduces costs by eliminating several pieces of equipment, saving space and reducing material handling.

Chocolate flavored compound coating prepared in a Processall Mixmill® Mixer: Dry ingredients can be charged to the Processall Mixer after all liquid ingredients added. With the aid of the high intensive mix action of the plows, the dry ingredients are dispersed and wet milled simultaneously. This process eliminates the need for premixing, dry milling, dust collection system and pneumatic handling. This results into a very smooth, high quality dispersion; all accomplished in a short processing cycle. Processall manufactures mixers from 4 liters to 25,000 liters in size.

Processall Prestovac Reactor Capabilities:

- Thorough Intensive Mixing
- Dispersion
- Wet Milling
- Pressure Cooking
- Vacuum Drying

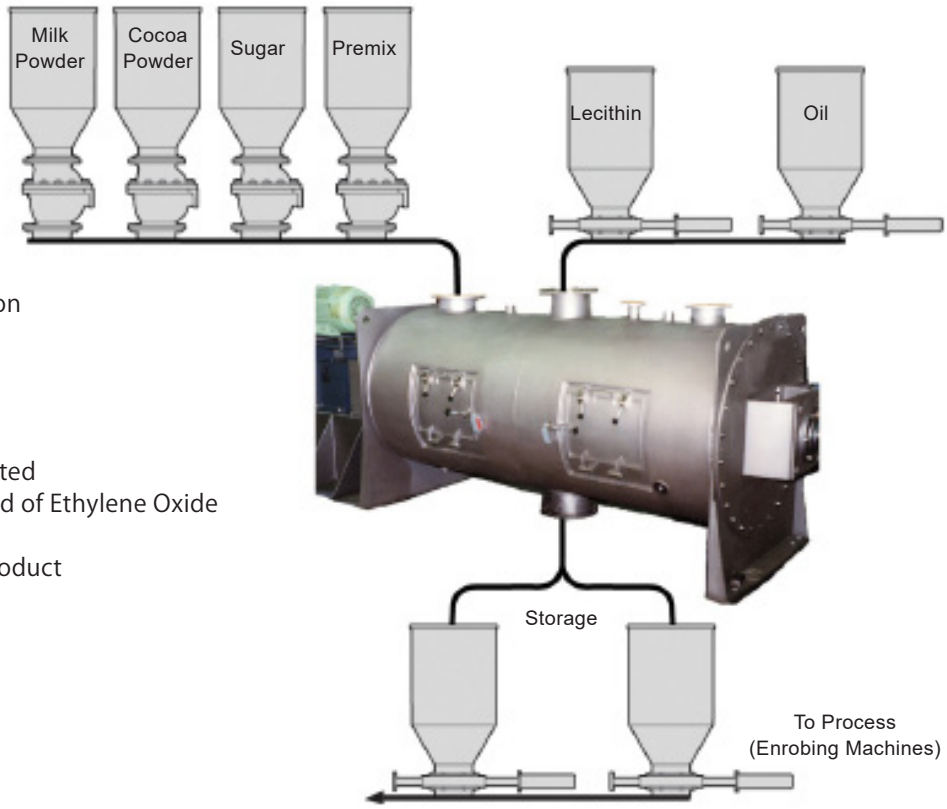
Additional areas Processall can contribute to the chocolate technology:

1. Alkalization (Dutching)

- Improved Taste
- Improved Solubility and Suspension
- Color Development
- Bacteria Reduction

2. Sterilization

- Micro Organisms Killed or Inactivated
- Use of Steam in the Process Instead of Ethylene Oxide
- Quick Steam Diffusion
- Moisture Can be Removed, and Product Dried in the Same Vessel



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Agglomeration/Wet Granulation

Typical Applications

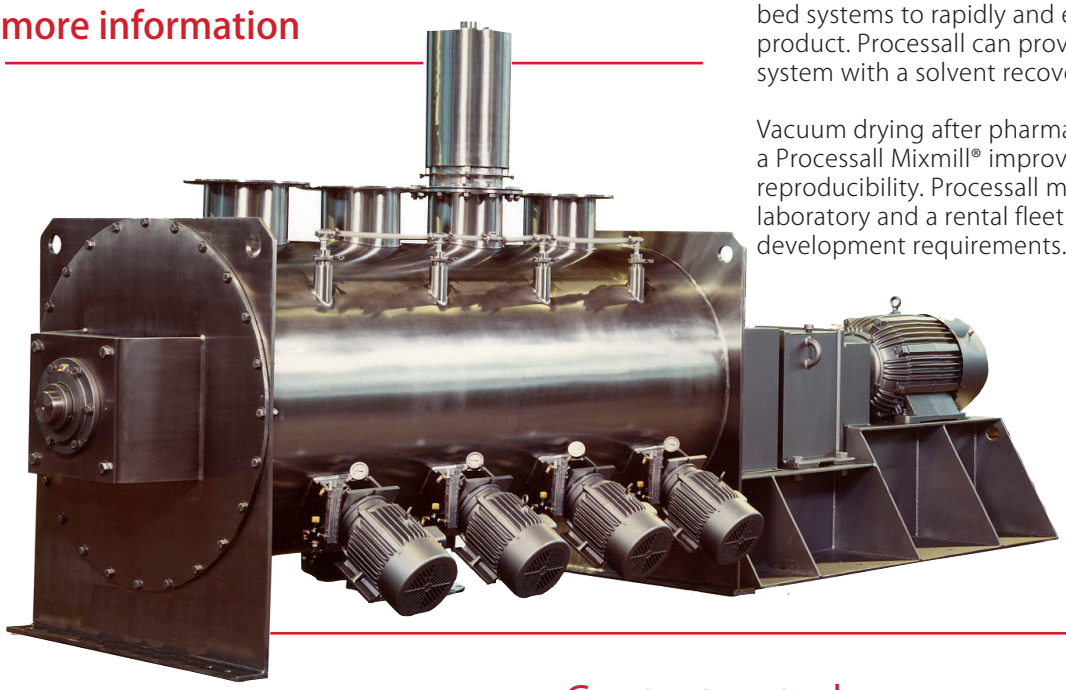
Food:
Food products are frequently agglomerated to increase their dispersion rate in liquids. Fruit and chocolate drink mixes, for example, must "dissolve" quickly with minimum stirring.

Pharmaceutical:
Pharmaceutical granulation produces the material handling characteristics and absolute uniformity of die-fill needed to assure rigid dosage accuracy on high-speed tableting presses.

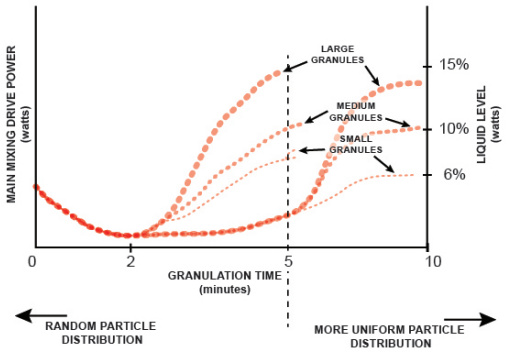
Chemical:
In the chemical industry, agglomeration controls dusting of such materials as fly ash, fertilizer, and other hazardous powders.

Ceramics & Powdered Metal:
Powdered metal and ceramics processors granulate to prevent component segregation, to improve material flow, and to adjust density to modify die compression ratio.

We offer testing, rental and installation services... Contact us for more information



Typical Agglomeration Wet Granulation Curve



In Processall's Mixmill® line of mixing granulators, medium-density blending elements lift and disperse the product to produce a mechanically fluidized bed, which rapidly and efficiently blends materials of widely different density and particle size, while an integral high-intensity chopping mill system distributes the agglomerating solutions while binding and controlling particle size. Post milling is usually unnecessary.

The high efficiency of the chopping mills often permits using less granulating solution and eliminates the need for subsequent drying. When post-drying is necessary, a Processall Mixmill® equipped with a heated jacket takes advantage of the excellent heat transfer rates of the fluidized bed systems to rapidly and efficiently dry the agglomerated product. Processall can provide a complete vacuum drying system with a solvent recovery/reuse capability.

Vacuum drying after pharmaceutical granulation in a Processall Mixmill® improves particle size distribution reproducibility. Processall maintains a well-equipped testing laboratory and a rental fleet dedicated to process and development requirements.

Contact us today

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Certified System ISO 9001 Quality