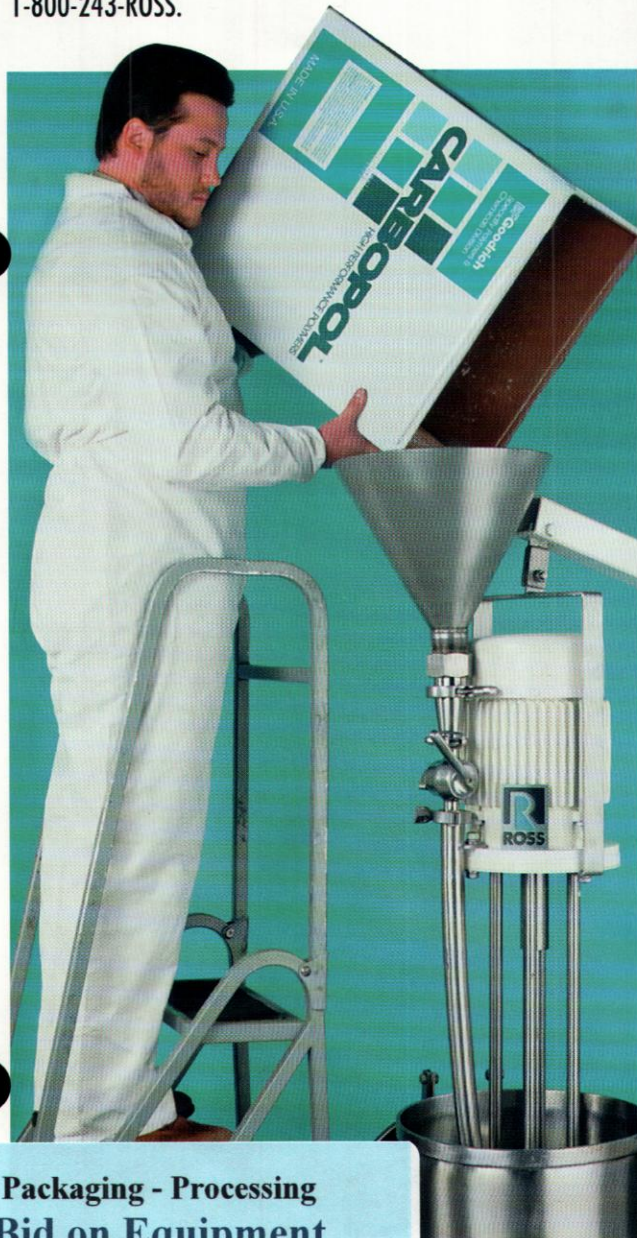


T Y P I C A L A P P L I C A T I O N S

*The New SLIM™ System
Has Applicability to
Almost Every Process —
What About Yours?*

From pharmaceuticals to farm products, from asphalt to aerospace, process engineers are SLIMming, to reduce process times while improving product quality.

A small sampling of SLIM™ applications follows. For more information on the new Ross SLIM™, call the Ross Mixing Hotline: 1-800-243-ROSS.



**Packaging - Processing
Bid on Equipment**

1-847-683-7720

www.bid-on-equipment.com

Plastisols

Large volumes of powdered PVC resins, calcium carbonate fillers and titanium dioxide pigments are SLIMmed into liquid plasticizers, such as dioctyl phthalate (DOP).

Toothpaste

Thickeners, such as CMC, are SLIMmed to produce high quality bases, then large volumes of fumed silica and other dentifrices are SLIMmed to form well dispersed toothpastes.

Cosmetics and Pharmaceuticals

Water soluble polymers such as carbomers, carboxymethylcellulose (CMC) and hydroxyethylcellulose (HEC), are SLIMmed into water or non-aqueous liquids to form high quality gels without fish-eyes or agglomerations.

Paper Coatings

Kaolins and other clays and solids are SLIMmed to form well dispersed paper coatings.

Paints, Inks & Coatings

Organic and inorganic pigments are SLIMmed into liquid vehicles to form mill bases or finished coatings.

Drink Mixes

Thickeners, proteins and other natural or synthetic flavors and nutrients are SLIMmed into water.

Caulks & Sealants

Calcium carbonate and fumed silica are SLIMmed into acrylic emulsions or silicones to form high quality, lump free caulks and sealants.



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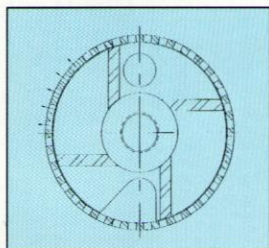
Ross Introduces New **Solid-Liquid Injection Manifold (SLIM™)** *for Instant Addition of Ingredients*

The new Ross SLIM™ system will revolutionize the way that you add solid and liquid ingredients into another liquid.

The ability of the SLIM™ to instantly incorporate either solid or liquid raw materials to form high quality dispersions, suspensions and emulsions represents one of the most significant process improvements in recent times.

What is SLIM™?

The Ross Mixer Emulsifier and VersaMix multi-agitator mixer are well known mixers that are currently in service in thousands of applications, from pharmaceuticals to adhesives and sealants.

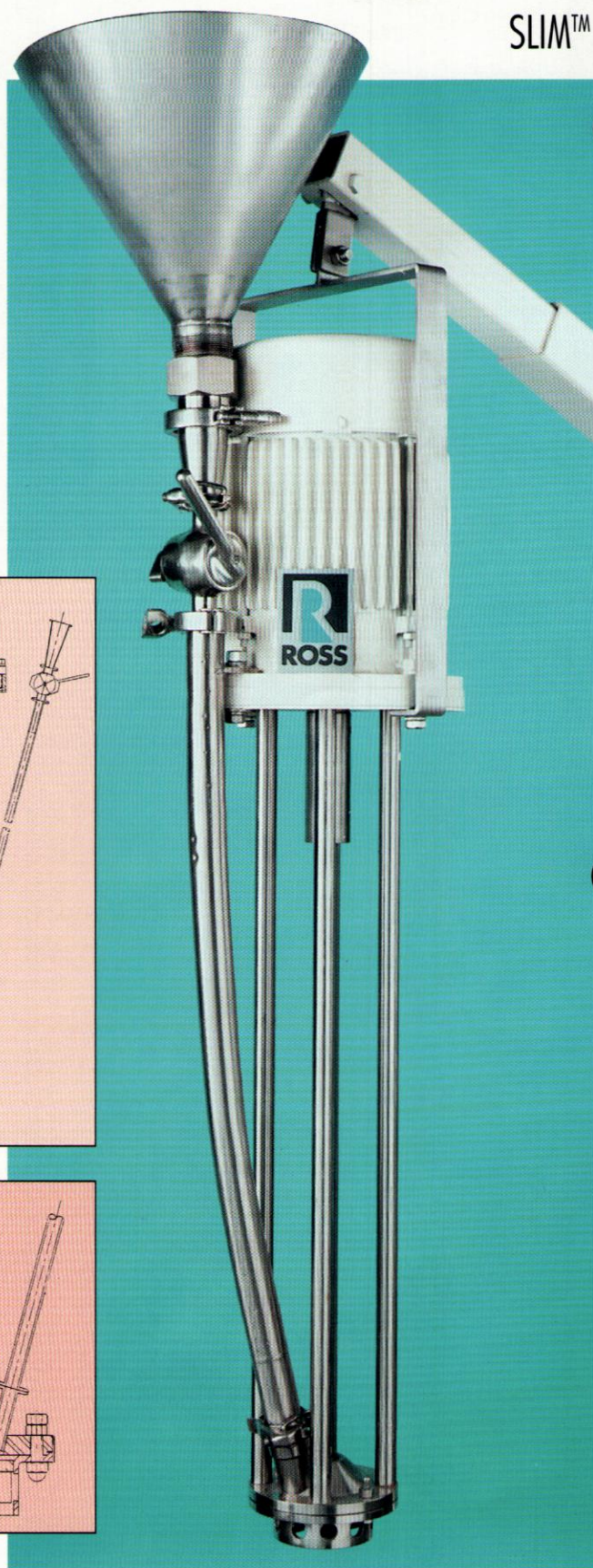
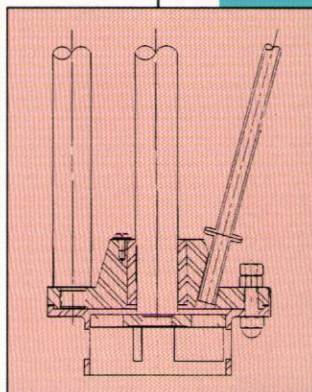
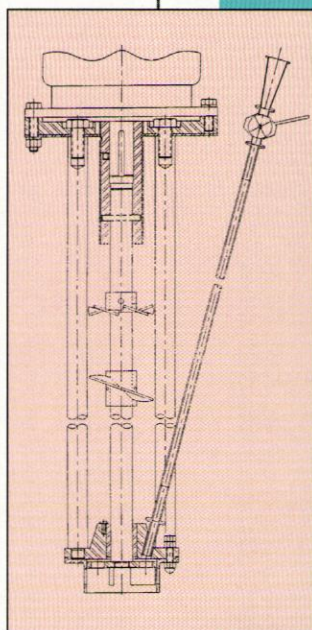


The Mixer Emulsifier has long been the standard of high shear mixers, utilizing a high speed rotor turning in close clearance to a fixed stator. Products

processed with the Mixer Emulsifier are subjected to intense mechanical and hydraulic forces which, in turn, produce highly dispersed products, and emulsions with very small droplet sizes.

The SLIM™ takes advantage of the strong vacuum force that occurs above the rotor of the Mixer Emulsifier. By connecting a tube from this area to a hopper or wand, powders or liquids are sucked into the high shear zone and are immediately dispersed or emulsified by the high speed rotor/stator combination.

In the VersaMix, the tube from the Mixer Emulsifier is connected to a bulkhead fitting in the cover, and can then be connected to a hopper or a wand. The SLIM™ works well under either ambient or vacuum conditions. Under vacuum, the added inducement caused by the differential pressure between the inside and outside of



the vessel creates a significant motivating force for powder or liquid induction. Additionally, incorporating ingredients under vacuum helps maintain an air-free product, eliminating the need for lengthy post-process deaeration steps.