



CREAM / GEL / TOOTHPASTE PROCESSING SYSTEM



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PROCESSING SYSTEM**



SPM has a sophisticated modular system for the manufacturing emulsions in a wide viscosity range. Advanced processing technology offers consistently high product quality, shorter batch cycles, minimal operating costs, low space requirements and simple operation. The principal applications for the system are in the pharmaceutical and premium cosmetics sectors.

Designed for the Process

With long experience at the leading edge of vacuum processing, SPM has developed a system which addresses the fundamental requirements of the served markets, including.

- Flexible process parameters settings
- Variable shear force adjustment
- Easy to upgrade to reflect the latest processing trends

High Efficiency High Shear Head

The heart of the Mixer is the vertically mounted, bottom high shear head, which introduces shear, drives product flow and discharges the completed batch.

- Aseptic construction
- No additional pump required for discharge and cleaning

Modular Construction

The design of the Mixer enables users to tailor the installation to their requirements. Units can operate on a standalone basis or as part of an integrated system. The core components of every Mixer are:

- Process vessel with a choice of agitation systems
- Vertically, bottom mounted high shear head
- Internal and external High Shearing
- Vacuum generation and control
- User-friendly interface

lotions / creams / ointments / gels / toothpaste



processing systems

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Vessel Design

Extensive research & development has produced the best combination of vessel and agitation system, offering high productivity, quality and yield.

- Low relative batch size
- Conical design and proven geometric ratios ensure optimum product flow
- All surfaces angled to ensure ease of cleaning

Intergrated Vaccum System

- Fully controllable to permit variation of vaccum levels according to the process phase
- Operates on demand for environmentally friendly and low cost operation.
- Vaccum line can be fully flushed for sanitation purposes



User Friendly Interface

The easy-to-use Mixer control package can incorporate process parameter storage for simple and fast set-up.

- PLC-based, with Touch Screen MMI and SCADA Packages
- Choice of packages to suit application requirements
- Flexible configuration

Processing Options

A comprehensive range of additional features can be provided to increase the flexibility of the Mixer. Each option is supplied fully integrated into the control system of the unit with appropriate safety features.





anchor agitator

- Heating / cooling and insulated jackets complete with temperature control and safety equipment
- Semi Contra Rotary agitator with open slot scraper design
- Short loop product Re-Circulation for smaller batch sizes
- Hydraulic lifting of manufacturing vessel top dish to facilitate product recovery
- Separate pre-mix vessels for wax and water phase
- Process piping with transfer panel design for automated plants
- Cleaning In Place cycles with validation protocols

Pharmaceuticals

LOTIONS
CREAMS
GELS
OINTMENTS

Cosmetics

COLD CREAMS
EMULSIONS
LOTIONS
GELS
HAIR GELS
MASCARA MAKE-UP
SHAMPOO
TOOTHPASTE

Capacity

Processing Batch sizes from 20 kgs to 10000 kgs

 **Sharp**
Pharma Machinery

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