

AUTOMATIC OINTMENT / CREAM MFG. PLANT :**Application:**

Pharmaceuticals: Creams, Gels, Sterile & Non Sterile Ointments and Biotech products.

Cosmetics: Cold Creams, Hair Dye Cream, Conditioners, Lotions, Gels, Mascara make-up, Shampoo, Toothpaste.

Technical feature:**Main Vessel:**

- Choice of various type of anchor design.
- Homogeniser (option) – Top Entry, side Entry, Bottom Entry with circulation facility.
- Hydraulic lid lifting for fast & easy cleaning of top dish & vessel.
- Load Cell for fast & accurate measuring system.
- Flexible product transfer pipe & fitting in case of load cell & hydraulic lifting.
- VFD for Anchor agitators to vary the RPM.
- VFD for Homogeniser to vary RPM.
- Specially Design drives assembly.

Wax vessel:

- Open top with top Entry agitator Cowl disc type or paddle with Slow Speed Anchor.
- Close top with top/bottom entry agitator Cowl disc type or propeller type stirrer.

Water Vessel:

- Open top with top entry propeller stirrer
- Close top with bottom or top entry propeller



Common Feature:

- The main function are mixing and emulsifying. This in the broader sense means producing very fine emulsions, Suspensions, etc featuring excellent homogeneity and thus finally stability of the mixed product.
- Jacket have heating & cooling with temperature control with Safety equipment.
- Electro polished Pipeline and joints are TC standard for easy opening & re-fixing.
- Vacuum system to transfer product from one vessel to another vessel and zero retention in pre phase vessel & inter connecting pipeline.
- No Air contamination. / Human contamination.
- Cleaning In Place cycles with validation protocols. (Optional)

Control System:

- Manual Control – Have temperature indicator /Timer / Single Phase protection /Push Button to operate the complete plant.
- Auto Control – PLC based with touch screen and pass word level to feed the parameters of process for Heating / Cooling / Stirrer timing/Homogeniser Timing / Stirrer speed / Homogeniser speed / Vacuum / Pressure / CIP etc. This choice of package to suit requirement to each product.
- Pre stored process parameter will help to achieve consistent product quality.
- MMI (Touch Screen) for visualization of machines of specific process condition and data
- PLC Indicates: 1. Visualization of Machine process condition & data.
2. Alarm Signal
3. Fault Message
- SCADA package (optional)

Design Base:

- A Special pharmaceutical design enables application in biotechnical process. Material, surface as well as general design are in keeping with the GMP directives as well as the recommendations of the FDA & USFDA.
- Vessel design as per ASME guideline and tailor made design as per user's / product Requirements.
- All vessel are per GMP regulations.
- Total plant is design & supplied as per CGMP guidelines.

Advantages:

Flexible Configuration
Simple Operation
Can Be Fully Automated
Integration into existing process control system
Fast product change over
Rapid & effective cleaning CIP/SIP
Homogenous product consistency without trapped air bubbles.
Mixing, dispersing and homogenizing in one operation

Capacity:

5 Kg to 3000 Kgs.

Note : Images Shown here are illustrative. As the design & manufacturing of Machines are subject to improvement, the product supplied will be as per our Techno-Commercial offer.