

Umang Engineering Capability



High Shear Mixer



Twin Screw Extruder



Spheroidizer



Solid Drug Layering



Bottom Spray Fluid Bed



Blender

World Class FDA & GMP Compliance Facilities



Umang World Wide



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UMANG
innovative solutions

Pelletization Suite



SIFTER

To maintain uniform granulate size. We have single & twin deck models with validated sieves in mesh & microns size as per BSS or ASTM standard.

LIFTING COLUMN

Mechanical lifting and charging device which is swivelling type for charging the powder into High shear mixer & Sifter.

GRANULATION (WET / DRY)

High shear Mixer Granulator is designed to achieve excellent mixing and consistent granules at lower operating cost along with higher productivity. Better mixing and closed control of granule size leads to faster tableting speeds with improved quality and least rejections of tablets.

Main Components

- Bottom blade design • Chopper Device
- Binder Feeding Device by Peristaltic pumps

IPC BIN

Bins are available in various sizes and shapes they are made in Stainless steel 316, various capacities from 50 liters – 400 ltrs. are available as per customer requirements.

SOILD DRUG LAYERING

It is a Centrifugal processing of single unit operation. The process involves the deposition of successive layers of an active compound onto nonpareil seeds resulting in the formation of uniform size pellets. The operation is carried out using a Drug layering rotating plate. Dry powder dusted on nonpareils adheres.

increasing their size and forming larger pellets. as per requirements.

Growth occurs by a process of blending of powder / liquid binding and consolidation. After liquid addition and dusting creates the correct diameter pellets, then tumbling of the coalesced aggregates increases their sphericity. The requirements of process validation or Good Manufacturing Practices (GMP) are simplified as the complete spheroid production process is restricted to a single processor. Min. size possible 200 microns.

EXTRUSION & SPHER'DIZATION

Various design of extrusion are available from our product range include cone extrusion, radial extrusion, axial extrusion, die roller extrusion,

mixer cum extruder. The size of extrusion Varies from 400-2000 microns. Basket design gives the lowest density & die roller gives the higher density of needles.

FLUID BED COATING / DRYING

The UPPL Fluid Bed Multiple Processor (UFBM) has been developed to meet the pharmaceutical industry's requirements for flexibility in unit operations and is based on the principle that one basic unit can be used for numerous processes by interchanging a module of the machine.

A suitable liquid is sprayed from the bottom (tablets, Pellets, etc) ensuring uniform coating. Multiple air distributors, wurster & different spray nozzles are available as key features enabling various product applications.

GRANULATION IN FLUID BED

A suitable binding agent is sprayed from the top into the fluidized product causing controlled agglomeration. The agglomerates formed are there subsequently dried for coating simultaneously.

TIPPER

This unit ideally use for lifting and tilting the product on required altitude for unloading into bins or equipments as desired.

BLENDER

We have variety of blenders including bin blenders, octagonal blenders, V blenders double cone blenders with capacity ranging from 1 Ltr-15000 Ltrs available in single column & double column designs. with pneumatic and manual discharge options.

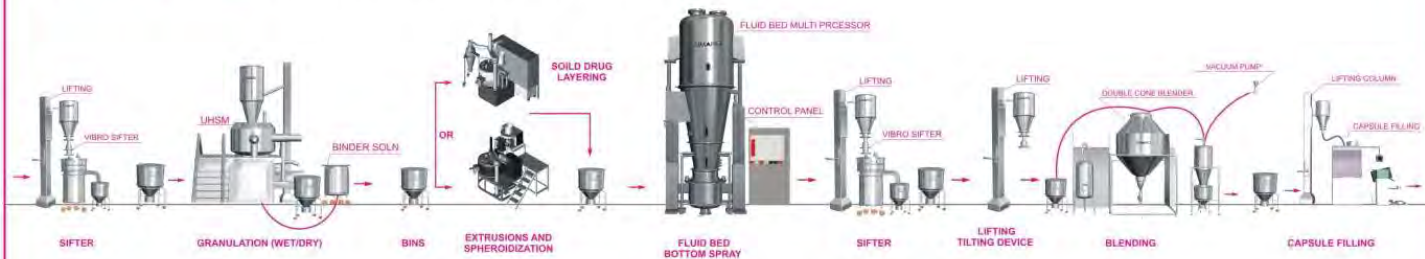
MACHINE CAPABILITY

To give individual machines as well as complete granulation line for tableting operation.

MACHINE AUTOMATION

Systems for machines can be automated with Siemens / Allen Bradley controls for individual machine as well as complete line automation with SCADA based computer controls from Intellusion and Wonderware.

Pelletization Solution: Confirming cGMP Standards & CE Approval



* Photo shown in the Brochure is not the Accurate Dimension, Design & Position

HIGH SHEAR MIXER	EXTRUDER & SPHEROIDIZATION SOILD DRUG LAYERING	UFBM BOTTOM SPRAY	BLENDER	SIFTER	CAPSULE FILLING
Start T: 15/09/05 10:01	Start T: 15/09/05 10:01	Start T: 15/09/05 10:01	Start T: 15/09/05 10:01	Start T: <input type="text"/>	Start T: <input type="text"/>
Work T: 02:30:00	Work T: 01:30:00	Work T: 00:02:30	Work T: 00:02:35	Work T: <input type="text"/>	Work T: <input type="text"/>
End T: 15/09/05 12:31	End T: 15/09/05 12:31	End T: 08/05 11:05	End T: 15/09/05 11:43	End T: <input type="text"/>	End T: <input type="text"/>
Batch: Batch 2003-01	Batch: Batch 2003-01	Batch: Batch 2003-01	Batch: Batch 2003-02	Batch: <input type="text"/>	Batch: <input type="text"/>
Product: Granule SX20B	Product: Granule SX20B	Product: Granule SX 0B	Product: Granule BB12A	Product: <input type="text"/>	Product: <input type="text"/>
Recipe: AD241478 Rev 2	Recipe: AD241478 Rev 2	Recipe: AD241478 Rev 2	Recipe: SB442012 Rev 2	Recipe: <input type="text"/>	Recipe: <input type="text"/>
Phase: Empty	Phase: Empty	Phase: Loading	Phase: Loading	Phase: <input type="text"/>	Phase: <input type="text"/>