

## UPPL Engineering Capability



## World Class FDA & GMP Compliance Facilities



## Umang World Wide



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**UMANG**  
innovative solutions

## Granulation Suite



### SIFTER

To maintain uniform granule 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 and sifter.

### GRANULATION (WET / DRY)

High shear mixer 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.

### FLUID BED DRYER CUM PROCESSOR

It is basically referred to as a top spray processor of agglomerators primarily employed for air

blending, low shear wet granulation, conversion of powder materials into agglomerates and top spray coating of larger particulate matter by atomizing binder spray which then evaporated upon filtered air suspended substrate particles in current manner.

During agglomeration filter bags continuously discharge fine particles back into the product container with a provision of automatic variable process air damper control during cycle.

It is cost effective solutions for standard application ideal for drying, granulation and film coating applications using top spray arrangement with all safety standards.

### TIPPER

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

### CONE MILL

Sieves and mills play a key role in the areas of pharmaceutical industry, food, feed and fine chemicals. UPPL offers the know-how for a wide range of different requirements.

- Sizing of products after fluid bed processing or wet granulation.
- Additional for some type Dosage, Classification and separation modes.

- All UPPL sieves and mills are basically made of high grade stainless steel with a ground surface finish.

### BLENDER

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

### TABLET COATING

The concept auto coater with greater elasticity in the batches ranges from 500 gm - 300 kgs, is in line with the production idea. Under control condition provision of interchangeable Pans for different batch size in a

single machine is a specific feature of equipment. Unique HPC design of perforated pan in suitable for sugar, films as well as aqueous coating at a much faster rate than other Perforated Pans.

### 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 Intelusion and Wonderware

## Granulation Solution : Confirming cGMP Standards & CE Approval



Vacuum Material Transfer System is available on request;

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

Vibrating Sifter	High Shear Mixer	Fluid Bed Dryer	Cone Mill	Blender	Tablet Coater						
Start T: 150905 10.01	Start T: 150905 10.01	Start T: 150905 10.01	Start T: 150905 10.01	Start T: <input type="text"/>	Start T: <input type="text"/>						
Work T: 02:30.00	Work T: 01:30.00	Work T: 00:02:35	Work T: 00:02:35	Work T: <input type="text"/>	Work T: <input type="text"/>						
End T: 150905 12.31	End T: 150905 12.31	End T: 50905 11.01	End T: 150905 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 Si20B	Product: Granule Si20B	Product: Granule SK 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: SB442212 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"/>						
NEXT BATCH	NEXT PHASE	ADD BATCH	PREWEIGH	REPORT	USING	RECIPE	R.T.D. IN/AM	RECIPE CHANGES	MANUAL ACTIONS	ALARM	LOGIN