



UMANG[®]
encapsulation solutions

LABORATORY & PRODUCTION MACHINERY

Pellet Processor



Umang's Pellet processor is dynamically designed to achieve excellent centrifugal drug layering with conical rotor insert to produce pellets or granules from powder with the use of Liquid Binder, allows achieve highest payload of API in smallest granule. Which results in Extremely fast process for high weight gain coatings, larger batch sizes.



The minimized rotor-stator gap provides fine air flow control that allows large amount of air for Drying. In a Nut Shell Pellet Processor is a One-Pot Operation for Drying, Layering with high sphericity on high RPM.





Special Features

- Special design Solid, Truncated Cone Type Rotor Insert.
- Top filter chamber & Pneumatic Discharge Door in SS316
- Conditioned bottom purging air & top air supply system
- Micronized liquid spraying system on weighing control
- Precision powder feeder system on weighing control to deliver Very fine or micronized powder directly into the product bed.
- Dust-free Closed system.
- Swivel construction for expansion chamber for ease of cleaning & charging.
- Reduced process time - increases yield.
- Complete process Automation with PLC controls & HMI.
- Hot air supply from the top (adjustable in height) helps Efficient Drying.

Advantage

- One-pot Operation for Layering & Drying.
- Conical Rotor design & small curvature of plate, pushes WKH material downwards for efficient coating.
- Closed Structure eliminates Dusting.
- Tangential Liquid spraying nozzle delivers micronized Liquid into Product bed for efficient coating.
- Precision Powder Feeder with Vacuum suction technology delivers mist to the product bed for Excellent layering.
- Low - cleaning & restart time.

Optional Features

- Stainless steel 316 L construction contact parts rest Stainless steel 304.
- 21 CFR Part II
- UL Certified, CE Marked components.
- FLP Motors

Model	UPPR-300	UPPR-1200
Capacity / Batch	Upto 2 Kg	Upto 60 Kg

Our Global Reach



Umang Global Group Pvt. Ltd.
(Engineering)

Umang Encapsulation Solutions Pvt. Ltd.
(Pharma, Nutraceuticals & Food)

Umang Particle Science Pvt. Ltd.
(Personal Care)

Lab Ultima Process Technologies Pvt. Ltd.
(Spray Drying)



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