

**UMANG**<sup>®</sup>  
*encapsulation solutions*

# LABORATORY & PRODUCTION MACHINERY

# Integrated Extruder & Spheronizer



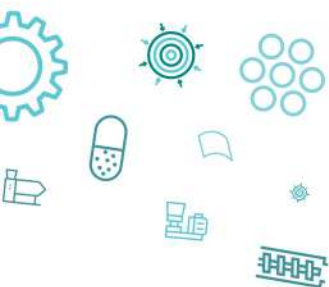
Umang's Integrated Extruder & Spheronizer is the outcome of 40+ years of Know how experience in pelletization, in special applications where Solvents are the only adhesives, suitable for both Batch & continuous operations.



The process has a very low Exposure to Environment which eliminates the evaporation of Solvents & contamination during transfers.



For Improved productivity through automation, increased yield, efficient cleaning and most importantly uninterrupted process. This Innovative technology provides Interlocks for safety, Plug Flow - First in, First out - with negligible product hold up.





## Special Features

- Compact design acquires limited amount of space and GMP Suites for pellet production from 1k upto 400 Kgs processing.
- Interchangeable extruder attachments - Cone, Axial, Dome & Radial.
- VFD Driven Motor for variable speed of rollers.
- Fully integrated with Allen Bradley PLC controls & HMI.
- Jacketed Extrusion Chamber & Spheronizer Drum

## Advantage

- Combines extrusion and spheronization for continuous pellet production.
- Fully Qualified & Documented.
- Eliminates cross contamination.
- Control the residence time by determining process time and RPM.
- Ideal Choice for Validation Batches.
- Recipe based process.

## Optional Features

- Stainless steel 316 L construction contact parts rest Stainless steel 304.
- 21 CFR Part II compliance
- Interchangeable extruder attachments for Cone, Axial, Dome & Radial mesh.
- Meshes 0.3, 0.4, 0.5, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0 mm.
- Solid block processed Mesh for consistency & long Life.
- CE / UL / Atex compliance.

Model	UICE - 25	UICE - 31	UICE - 71	UICE - 101	UICE - 201	UICE - 251
Capacity / hr	Upto 15 kg	Upto 40 kg	Upto 70 kg	Upto 120 kg	Upto 180 kg	Upto 300 kg

# Our Global Reach



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

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