



UMANG[®]
encapsulation solutions

LABORATORY & PRODUCTION MACHINERY

Twin Screw Extruder



The Innovative technology is the outcome of 40+ years Experience in Pelletization machinery. Twin Screw is specially designed for scale up and validation process.



Making it suitable for scale-up studies also allows evaluation of four types of Different pressure extrusion techniques for production from 15 to 400 Kg. Easy to dismantle and clean, thus Minimum maintenance is required. It is the Flexible choice towards process optimization - thanks to its interchangeable components.



This is Developed maintaining the operating principals of the larger pilot and production machines. A wide range of extrusion screen sizes and configurations are offered for optimization of pellet diameter, surface quality and size distribution.





Special Features

- Compact design acquires limited amount of space and GMP Suites for pellet production upto 400 Kgs processing.
- System components easily accessible for cleaning and maintenance.
- 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.

Advantage

- Fully Qualified & Documented.
- Lab cum Pilot scale production Feasibility.
- All the m/c components are precisely machined by CNC , hence interchangeability is assured.
- Allows evaluation of four types of different pressure extrusion techniques - Axial, Cone, Dome & Radial.
- Complete scalable model to large scale pellet production.
- Circle Feeder for uniform feeding to extruder Hopper.
- Variable speed for extruder (20-100 rpm)

Optional Features

- Stainless steel 316 L construction contact parts rest Stainless steel 304.
- 21 CFR part II
- Can be Integrated with Spheronizer for Automated operations.
- Solid block processed Mesh for consistency & long Life.
- Interchangeable extruder attachments for Cone, Axial, Dome & Radial mesh.
- Meshes 0.4, 0.5, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0
- CE Approved Components

Model	UTCE-35	UTCE-70	UTCE-110	UTCE-140
Capacity	Upto 15 kg/hr	Upto 70 kg/hr	Upto 180 kg/hr	Upto 400 kg/hr

Our Global Reach



Umang Global Group Pvt. Ltd.
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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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