



UMANG[®]
encapsulation solutions

LABORATORY & PRODUCTION MACHINERY

Die Roller Extruder



Umang's Die Roller Extruder is specially designed for pharmaceutical and chemical industry, where it is used to produce granules of a defined diameter from moist or pasty raw materials. Granulation cylinders with minimum gap of 0.3 mm & bores between 1.0 mm and 3.0 mm are available to achieve different granule diameters along with better compaction.



The counter-rotating perforated cylinder and knurled, which improves the drawing behavior. Furthermore, the modular design allows changing and cleaning of all work tools and thus fulfills the requirements for flexible work resulting in efficient output & performance as well.



Its cGMP Design & Tie rod Type Assembly allows quick cleaning and installation making it an ideal equipment for R & D to even large Production scale batches as high as 600 kgs/hr.





Special Features

- Moderate Compaction - Low fine generation.
- Complete process Automation with PLC controls & HMI.
- Larger & Efficient production Light pressure & Dense Extrusion Compatible
- VFD Driven Motor for variable speed of rollers.
- Minimum Roller Clearance.
- Capable to produce Bigger granule sizes upto 3.0 mm.

Advantage

- Dense Extrusion & Light pressure Extrusion feasibility.
- Various Bore (1 mm, 2 mm, 3mm)of Perforated Roller for product suitability.
- Circle Feeder for uniform feeding to extruder Hopper.
- Easy cleaning & maintenance allows change over with minimal downtime, labor & tooling replacements.
- Suitable for different applications like pharmaceuticals, chemicals, nutraceuticals etc.

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.
- Perforated rollers 0.8, 1.0, 2.0 & 3.0 mm
- CE Approved Components
- FLP Motors.

Model	UDRE-65	UDRE-100	UDRE-130	UDRE-200
Capacity	Up To 15 kg/hr	Up To 100 kg/hr	Up To 180 kg/hr	Up To 600 kg/hr

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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