



UMANG[®]
encapsulation solutions

LABORATORY & PRODUCTION MACHINERY

Film Casting Machine



Film Casting Assembly is the heart of this process. Compact, clear and flexible design, the lab machine is ideally suitable for research and development as well as for the production of stability and clinical patterns. Technical highly sensible components regulate feeding & casting of materials within the machine. Dancers, web edge controls, and winding and rewinding devices are the basic technologies for producing Film Casted Rolls.



cGMP compatible Cantilever Design consists of a set of roller arrangement for holding and smooth movement of substrate and casted film, Coating assembly to coat continuously on a substrate film with solutions or dispersions in variable thickness with accuracy 500-900 microns. Thickness adjusting mechanism by viewing a built in thickness indicating micrometer dial.



Set of cartridge heaters inside drying chamber to heat air flow system which dries the film. Winding rollers to roll back the casted film for next step of Slitting & Packing.





Special Features

- Compact, Modular & cGMP Design.
- Cantilever type design for complete unwinding and winding process.
- VFD Driven motor for infinite variable speed
- Servo Motors for Linear Speed & Speed sensors with Automatic Web Aligner.
- Automatic Web tension alignment through Force sensor.
- Precise closed coating system & High efficient drying zones with double skin
- RTD sensors and temperature controls for individual zones.

Advantage

- Continues Automated Process
- High Coating accuracy.
- Uniform air flow throughout the machine for Efficient Drying & Product performance.
- Liquid dosing system there by minimal human interference.
- Cantilever type design for winding and unwinding, hence substrate and product rolls can be simply inserted from front.
- Insulated Drying Chambers for Efficient Drying without Heat Dissipation.

Optional Features

- Stainless steel 316 L construction contact parts.
- 21 CFR part II.
- Various mesh size milling merge.
- UL certification, CE Components
- Flame Proof Motors.

Model	URCP - 30	URCP - 200
Capacity / Batch	Upto 30 Kg	Upto 150 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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