

•• LABORATORY SCALE PROCESSING ••••

HIGH SHEAR GRANULATOR

This design of granulation is for high shear wet granulation, pelletization, etc. suitable for pre-formulation development. formulation assurance. process consistency applications and academic laboratory use.



STANDARD FEATURES :

	Variable speed mixer and chopper.
ı	Mixer torque %.
	Glass vessel for 300-700 gms/batch and / or 100-200 gms/batch.
	Liquid dosing system.
	Product temperature measurement.
ı	Recording of critical process data in 21 CFR part 11 certified software.

Report on Excel file can be exported to USB to view on c

OPTIONAL FEATURES :

Together with a fluid bed you get a complete granulation / drying and coating suite

THROUGHPUT / OUTPUT :

	UHSM - 1	Model
Capacity 150 - 800 gms/batch 1 - 5 kgs/batch	150 - 800 gms/batch	Capacity

UICE LAB

A Fully integerated extruder and spherodizer for , pelletization, etc. suitable for pre-formulation development. formulation assurance, process consistency applications and academic laboratory use.



STANDARD FEATURES :

Variable speed for extruder (20-100 rpm), spheronizer (50-1500 rpm).

Drum diameter standard 150mm (250 gms/batch) / Optional 75mm (25 gms/batch).

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OPTIONAL FEATURES :

Teflon coated drums. Various sizes of chequered plate as indicated abo

THROUGHPUT / OUTPUT :

Capacity 20 - 1000 gms/batch

MINI LAB

This design of bottom spray wurster coating and top spray for wet granulation, pelletization, suitable for pre-formulation development, formulation assurance, process consistency applications and academic laboratory use.



STANDARD FEATURES :

Stainless steel processing bowl bottom spray 100 - 400 gms

Process air filter & Exhaust fan

Liquid dosing system by speed controlled peristaltic pump (volume is optional)

Recording of critical process data in 21 CFR part 11 certified software

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OPTIONAL FEATURES :

Rotor attachment available with selected machine models

THROUGHPUT / OUTPUT :

Model	MINI LAB	UFBM - 1	UFBM - 3
Capacity	20 - 500 gms/batch	300 - 800 gms/batch	1 - 3 kgs/batch

MINI DRYFR

A fully integrated fluid bed dryer for drying pellets, granules, powder, tablets, etc. suitable for preformulation development. formulation assurance, process consistency applications academic laboratory use.



STANDARD FEATURES :

Stainless steel 3 bowl attachment processing bowl for drying 20 - 50 gms. of mate

Acrylic boor for the bowl to ensure the product material inside the acrylic chamber.

Recording of critical process data in 21 CFR part 11 certified software

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OPTIONAL FEATURES :

Together with a granulator you get a granulation / drying and coating suite

THROUGHPUT / OUTPUT :

Model			
Capacity	0.3 - 1 kg/batch	3 - 5 kgs/batch	



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PAN COATER

Small Scale Pan coater, with 6" & 8" size perforated pans suitable for preformulation development, formulation assurance. process consistency applications and academic laboratory use.



STANDARD FEATURES

e drum speed (3 - 40 rpm

ss steel perforated drum has a plexi door and housing

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OPTIONAL FEATURES :

gether with a fluid bed you get a complete granulation / drying and coating suite

THROUGHPUT / OUTPUT :

Capacity 50 - 500 gms/batch 1 - 3 kgs/batch

HOMOGENIZER

A Fully integerated semi-solid homogenization, gelification and suspension equipment. suitable for pre-formulation development, formulation assurance, process consistency applications and academic laboratory use.



STANDARD FEATURES :

Size reduction till 5 microns, rotation clock and anti-clos

Mixer torque (%). Jacketed glass process vessel (0.5 - 1.5 ltrs / batch)

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OPTIONAL FEATURES :

Stainless steel jacketed process vess

THROUGHPUT / OUTPUT :

5 ltrs / 10 ltrs /batch

1 ltr / 3 ltrs /batch

MDFIAR

A Fully integerated mouth dissolvim film line for , making edible / oral strips, etc. suitable for pre-formulation development, formulation assurance. process consistency applications and academic laboratory use.



STANDARD FEATURES :

n air flow throughout the machi

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Report on Excel file can be exported to USB to view or

OPTIONAL FEATURES :

mogenizers and mixing tanks for integrations for a complete MDF suite

THROUGHPUT / OUTPUT :

1 ltr/batch 25 strips/min

SPRAY DRYER

A Fully integerated spray drying unit for dryer / chiller for small and large slurry samples, suitable for preformulation development. formulation assurance, process consistency applications and academic laboratory use.



STANDARD FEATURES :

Bi-fluid spray nozzle & unique air - flow control sys

Glass process column and twin cyclone assembly

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OPTIONAL FEATURES :

Different design of spray nozzle and organic solvent processing

THROUGHPUT / OUTPUT ·

20 - 900 ml/hr

Umang Pharmatech Pvt. Ltd.