

# •• EXTRUDER & SPHERONIZER ••••

## AXIAL EXTRUDER

Axial extruder is the new extrusion range that builds or the proven Umang technolog: and its benefits. Similar design of process screws, cams and meshes ensure right size of extrusion from 300 - 1500 microns



#### STANDARD FEATURES :

	Standard Axial extruder with NON SPILL type GMP feeder and hopper with safety grill.
1	/arious mesh configuration with different perforation area / thickness for product suitability.
5	System components easily accessible for cleaning and maintenance.
F	Fully integrated with Allen Bradley controls & touch screen.
5	Standard set up with 1mm mesh.
١	/ariable speed of extruder (20-100 rpm).
5	Stainless steel 316 GMP design with high polish finish.
OP	FIONAL FEATURES :
	Axial extrusion head with various mesh size (0.3 / 0.4 / 0.5 / 0.6 / 0.8 / 1.0 / 1.2 / special size
	Jacketed / insulated extrusion chamber.

THROUGHPUT / OUTPUT :								
Model	USSE - 60	UTSE - 70	UTSE - 110	UTSE - 140				
Capacity	1 - 10 kgs/hr	20 - 60 kgs/hr	80 - 150 kgs/hr	200 - 400 kgs/hr				

### RADIAL EXTRUDER

Radial extruder is the new extrusion range that builds or the proven Umang technolog and its benefits. Similar design of process screws, cams and meshes ensure right size of extrusion from 400 - 1500 microns. The design ensures low pressure extrusion for your products.



### STANDARD FEATURES :

Standard Radial extruder with with NON SPILL type GMP feeder and hopper with safety grill.
Various mesh configuration with different perforation area / thickness for product suitability.
System components easily accessible for cleaning and maintenance.
Fully integrated with Allen Bradley controls & touch screen.
Standard set up with 1mm mesh.
Variable speed of extruder (20 - 100 rpm).
Stainless steel 316 GMP design with high polish finish.
OPTIONAL FEATURES :
Radial extrusion head with various mesh size (0.3/0.4/0.5/0.6/0.8/1.0/1.2 mm / special size)
Jacketed / insulated extrusion chamber
THROUGHPUT / OUTPUT ·

1 - 10 kas/hr 20 - 60 kas/hr 80 - 150 kas/hr 200 - 400 kas/hr

### CONE EXTRUDER

Cone extruder is the new extrusion range that builds on the proven Umang technology and its benefits. Similar design of process screws, cams and meshes ensure right size of extrusion from 500 - 1500 microns



### STANDARD FEATURES :

Various r	nesh configuration with different perforation area for product suitability.
System of	omponents easily accessible for cleaning and maintenance.
Fully inte	grated with Allen Bradley controls & touch screen.
Standard	set up with 1mm mesh.
Variable	speed of extruder (20-100 rpm).
Stainless	steel 316 GMP design with high polish finish.
TIONAL	FEATURES :
	FEATURES : rusion head with various mesh size (0.5 / 0.6 / 0.8 / 1.0 / 1.2 mm / special size)

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Capacity	1 - 10 kgs/hr	20 - 60 kgs/hr	80 - 150 kgs/hr	200 - 400 kgs/hr

### DIE ROLLER EXTRUDER

Die roller extruder is the oldest extruder range that builds on the proven Umang technology and its benefits. We have a die roller and a pressing roller called as the knurling roller, the variety of designs ensures that process chosen for the product and process suits it application like high pressure extrusion.



#### STANDARD FEATURES :

Standard Die roll	er extruder with NON SPILL type GMP feeder and hopper with safety grill.
Various mesh cor	nfiguration with different perforation area / thickness for product suitability.
System compone	ents easily accessible for cleaning and maintenance.
Fully integrated v	with Allen Bradley controls & touch screen.
Standard set up (	with 1mm Die roller.
Variable speed of	f extruder (20-100 rpm).
Stainless steel 31	16 GMP design with high polish finish.
OPTIONAL FEAT	JRES :
Various sizes of I	Die roller (1.0 / 1.2 / 1.5 / 2.0 / 3.0 / 5.0 / 7.5mm / special size).
Jacketed / insula	ted extrusion chamber. Chilled water through knurling roller.

#### THROUGHPUT / OUTPUT :

Model	UDRE - 65	UDRE - 100	UDRE - 130	UDRE - 200
Capacity	0.1 - 15 kgs/hr	60 - 100 kgs/hr	200 - 300 kgs/hr	350 - 500 kgs/hr

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### BASKET EXTRUDER

Basket extruder is the new extruder range that builds on the proven Umang technology and its benefits. Similar design of Pressing blades and meshes ensures that process and validation so there is no difference to the extrusion from machine to machine. This design is the lowest extrusion pressure for your product.



#### STANDARD FEATURES :

Standard meshes from 500 - 1500 microns.
Bottom driven Blades and cams rotating in counter directions.
System components easily accessible for cleaning and maintenance.
External blade for pushing the material out to a spheronizer or a fluid bed dryer bowl.
Variable speed of extruder (20 - 100 rpm). Standard set up 1mm mesh.
Fully integrated with Allen Bradley controls & touch screen.

### OPTIONAL FEATURES :

	Scrapping							
1	Extrusion	various mesh	size (0.5 / 0.6	/0.8/1.0/1.2/s	pecial size).			
	THROUGHE	PUT / OUTP	UT :					
	Model	UBRE - 75	UTSE - 150	UBRE - 300	UBRE - 450	UBRE - 600		
1	Capacity	1 - 5 kgs/hr	10 - 30 kgs/hr	100 - 150 kas/hr	300 - 500 kgs/hr	1000 - 1200 k		

### HOT MELT EXTRUSION

Hot Melt Extrusion is the new mixer extrusion range that builds on the proven Umang technology and its benefits. Similar design of the twin screws, extrusion die and cutting mechanism in the process and validation, Complete process and product controls are achieved during processing.



#### STANDARD FEATURES :

Twin segmented screws and barrels with heating and cooling arrangement till 145 deg. cen No seals in direct contact with the product / materials. Partiert GNM- design: screption constrained tubing and piping allowing easy cleaning

Twin screw feeder (variable speed), Twin segmented screws (split barrel) with variable speed Controls by buch screen 12.1" IPC by a touch panel control with trends (21 CFR Part 11). Down stream equipments like cutter and underwater are supplied as per project needs.

### OPTIONAL FEATURES :

Hot and chilled water equipments as per product / customer ne Down stream equipments as per customer / project needs.

### THROUGHPUT / OUTPUT :

Model UHME - 16 UHME - 25 UHME - 40 UHME - 50 UHME - 60 Capacity 0.05 - 2 kgs/hr 1 - 5 kgs/hr 10 - 40 kgs/hr 80 - 100 kgs/hr 150 - 200 kgs/hr

### MIXER EXTRUDER

Mixer extruder is the unique technology extruder range that builds on the proven Umang technology and its benefits. the machine has rotating sigma blades above and a screw cone extruder below, the blades and screw are carefully coordinated so that solvent based product extrusion can be done in this design due to its unique design.



STANDARD FEATURES :
Explosion proof design.

System components easily accessible for cleaning and maintenance.						
21 CFR part 11 certified controls and measurement of critical parameters.						
ADVANCE PROCESS + for easy and automated plant control.						
Jacketed / insulated bowl.						
Variable speed for screw extruder and Variable speed for twin blade mixers.						
	OPTIONAL FEATURES :					
PTIONAL FEATURES :						
PTIONAL FEATURES : Various size of cone mesh size (0.5 / 0.6 / 0.8 / 1.0 / 1.2 mm / special size)						

Model	UCKM - 30	UCKM - 110	UCKM - 150	UCKM - 300
Capacity	1 - 5 kgs/hr	30 - 70 kgs/hr	100 - 150 kgs/hr	300 - 400 kgs/hr

### SPHERODIZER

Spheronizer is the new pelletization range that builds on the proven Umang technology and its benefits. The design of the plate and the gap between the bowl and the chequered plate ensures that process and validation from equipment to equipment, our design ensures 300 micron pellets to be made on our spheronizer.



#### STANDARD FEATURES :

- Spheronizer with 3.2mm chequered plate and acrylic cover over
- Plate and shaft seals not in direct contact with the product.
- Perfect GMP- design: smooth covering, no external lubing and piping allowing easy cleaning Completely integrated full opening side discharge; perfect discharge of difficult products. Controls by touch screen 12.1° IPC by a touch panel control with trends (21 CFR Part 11). Recording of critical parameters and process data in software.
- Recording of critical parameters and process data in

### OPTIONAL FEATURES :

Various sizes of Chequered plate (1 / 2 / 3 2 / 6 5mm / special sizes)

#### THROUGHPUT / OUTPUT :

 Model
 USPH - 250
 USPH - 380
 USPH - 500
 USPH - 700
 USPH - 900

 Capacity
 0.2 - 1 kg/batch
 1 - 3 kg/batch
 3 - 7 kg/br
 5 - 15 kg/batch
 20 - 40 kg/br

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