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Softgel Encapsulation System





CATALOGUE Rev:1.0

Softgel Encapsulation System

Product Data

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Softgel Encapsulation System

All-In-One Standard & Vgel Production

The SaintyCo **Aprila SG 50** softgel production system is a space saving, stand alone, all-in-one softgel encapsulation system capable of full production duties. With speeds up to 5 RPM and production volumes up to 12,600 softgels per hour @ 8 Oval 4 RPM base on oil. This is an attractive system for cost conscious start-ups, smaller production batches, or research and development.



Vgel & Standard Gelatin Compact Design All-In-One Solution



Aprila SG 50

Features:

- Up to 12,600 pcs/hour(8# OVAL 4RPM)
- All-in-one set up includes everything you need to get up and running
- Variable operation speeds up to 5RPM
- Compact size allows for smaller footprint
- Quick and easy replacement of change parts
- Suitable for use in pharmaceutical, food and recreational industries
- Color touchscreen control provides easy production management
- Tumble dryers have large, high powered centrifugal fan
- Vgel plant based gelatin option

Production Estimates:

Size/Shape	Cavities	Output Per Hour (@ 4 RPM)
6 Oval	72	17280
8 Oval	70	12600
10 Oval	68	16320
8 Oblong	82	19680
20 Oblong	34	8160
6 Round	108	25920
40 Round	44	10560

Production rates may vary depending on machine speed, fill material viscosity, and operator experience.

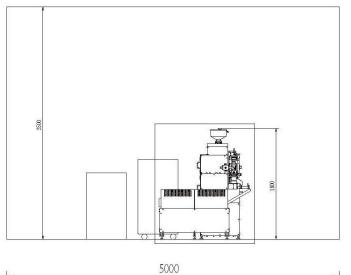
Complete System Includes:

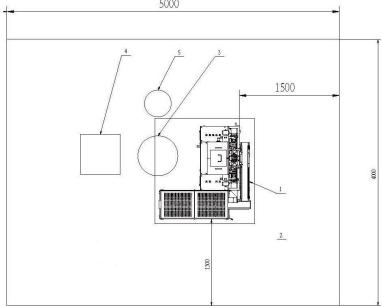
1	SG 50	Softgel	Encapsulator
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- 2 Tumble Dryers
- 3 Chilling System
- 4 100 Liter Gelatin Melting/Mixing Tank
- 5 Drying Trays & Dollies
- 6 Change parts (Softgel Tooling)



Dimensions:





Technical Data	Aprila SG 50	
Mold Sizes (mm)	φ150 × 50	
Speed	Up to 5 RPM	
Capacity (8# OVAL 4RPM)	12,600 pcs/h	
Power	220V/380V,50/60Hz,3 Phase,1.7 Kw	
Machine Dimensions (mm)	1700×810×1750	
Weight	600 kgs	
Tumble Dryers	2	

Softgel Support Equipment

Aprila SG 50

Chilling System

The chilling unit is modular to fit your available floor space. *Refrigeration capacity: 5.28Kw Power: 220 V 50 Hz 1P 2.27Kw Dimensions: 580x550x925mm Weight: 100Kg*

Gel Melter

100 liter capacity gelatin melting and mixing tank is made from all stainless steel construction with sanitary stainless steel valves and clamps, a triple wall jacket with breather. *Volume: 100L Temperature: <100 °C Power: 220V 50Hz 1P 1.5kW*

Dimensions: *Ф*550x1210

Drying Trays

The softgels come out of the tumble dryers and are placed on paper lined drying trays. The trays are then stacked on dollies and pushed into drying tunnels.

Dimensions: 750x475x55mm

Tumble Dryers

Each tumble dryer has a large, high powered centrifugal fan, and is equipped with an anti-static device to prevent softgels from sticking due to electromagnetic charge build-up.

Quantity of tumbler:2 Tumbler size: $approx 316 \times 417 mm$ Power supply: 380 V 50 Hz 3P Dimensions: 1400x 450x800mm Weight: 90 Kg

Softgel Tooling

The Softgel tooling is custom made to meet your needs with a 2-week turnaround. It features harder aircraft grade aluminum, colored timing marks, and "bead blasting" to minimize gel adhesion.

Complete set includes:

- 2 die rolls with stainless steel inserts
- Teflon ceramic coated aluminum wedge
- Solid Teflon distribution plate
- Industrial, compact storage case
- Timing gear









Softgel Encapsulation System

Small Standard & Vgel Production

The SaintyCo Aprila SG 100 softgel production system is a new small capacity model. With speeds up to 5 RPM and production volumes up to 31,500 softgels per hour @ 8 Oval 4 RPM base on oil. This is an attractive system for cost conscious start-ups, smaller production batches, or research and development. And it gives you the ability to produce both standard gelatin as well as popular vgel plant based gelatin softgels.



Small Scale Production

Aprila SG 100

Features:

- Up to 31,500 pcs/hour(8# OVAL 4PRM)
- Operating speed up to 5RPM
- Die roll φ150*100mm AL7075 Dura Aluminum fabrication
- Teflon coated brass machine injection wedge
- Suitable for use in pharmaceutical, food and recreational industries
- Color touchscreen control provides easy production
- Capsule discharge and conveying system
- Tumble dryer system

Production Estimates:

Size/Shape	Cavities	Output Per Hour (@ 4 RPM)
6 Oval	180	32400
8 Oval	175	31500
10 Oval	170	30600
8 Oblong	164	29520
20 Oblong	102	18360
6 Round	272	48960
40 Round	110	19800

Production rates may vary depending on machine speed, fill material viscosity, and operator experience.



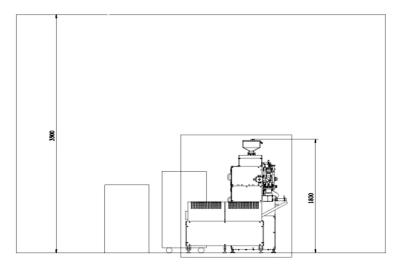
Machine Components:

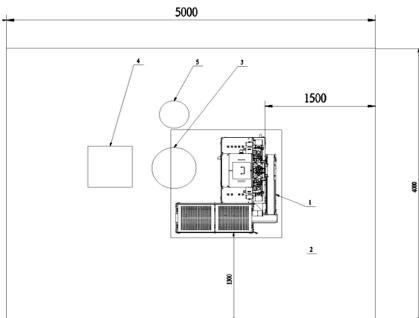
- 1 Medicine pump
- 2 Wedge
- 3 Spreader box
- 4 Die roll
- 5 Lubrication roller
- 6 Mangle conveyor
- Main body
- 8 Button control panel
- 9 Tumble dryer

Small Scale Production

Aprila SG 100

Dimensions:





Technical Data	Aprila SG 100
Mold Sizes (mm)	φ150 × 100
Speed	Up to 5 RPM
Capacity (8# OVAL 4PRM)	31,500 pcs/h
Power	220V/380V,50/60Hz,3 Phase,2.5 Kw
Machine Dimensions (mm)	1800x900x1750
Weight	650 kgs
Tumble Dryers	2

Softgel Support Equipment

Aprila SG 100

Chilling System

The chilling unit is modular to fit your available floor space. *Refrigeration capacity: 5.28Kw Power: 220 V 50 Hz 1P 2.27Kw Dimensions: 580x550x925mm Weight: 100Kg*

Gel Melter

450 liter capacity gelatin melting and mixing tank is made from all stainless steel construction with sanitary stainless steel valves and clamps, a triple wall jacket with breather. *Volume: 450L*

Temperature: <100 ℃ Power: 4kW Mix speed: 51rpm Dimensions: Φ1200x2200 Weight: 1300Kg

Drying Trays

The softgels come out of the tumble dryers and are placed on paper lined drying trays. The trays are then stacked on dollies and pushed into drying tunnels.

Dimensions: 750x 475x55mm

Tumble Dryers

Each tumble dryer has been designed to provide fast and easy drying of a softgel capsule, stability of machine operation, user convenience, and safety. *Quantity of tumbler:2 Tumbler size:* \$\$216x417mm*Power supply: 380 V 50 Hz 3P Dimensions: 1400x450x800mm Weight: 90 Kg*

Softgel Tooling

The Softgel tooling is custom made to meet your needs with a 2-week turnaround. It features harder aircraft grade aluminum, colored timing marks, and "bead blasting" to minimize gel adhesion.

Complete set includes:

- 2 die rolls with stainless steel inserts
- Teflon ceramic coated aluminum wedge
- Solid Teflon distribution plate
- Industrial, compact storage case
- Timing gear











Softgel Encapsulation System

Large Standard & Vgel Production

The SaintyCo **Aprila SG200** softgel production system is a new medium capacity model. With speeds up to 5 RPM and production volumes up to 64,800 softgels per hour @ 8 Oval 4 RPM. And it gives you the ability to produce both standard gelatin as well as popular vgel plant based gelatin softgels.



Aprila SG 200

Features:

- Up to 64,800 pcs/hour(8# OVAL 4RPM)
- Operating speed up to 5RPM
- Die roll φ125*200mm AL7075 Dura Aluminum fabrication
- Teflon coated brass machine injection wedge
- Suitable for use in pharmaceutical, food and recreational industries
- Color touchscreen control provides easy production
- Capsule discharge and conveying system
- Tumble dryer system

Production Estimates:

Size/Shape	Cavities	Output Per Hour (@ 4 RPM)
6 Oval	290	69600
8 Oval	270	64800
10 Oval	234	56160
8 Oblong	264	63360
20 Oblong	162	38880
6 Round	364	87360
40 Round	190	45600

Production rates may vary depending on machine speed, fill material viscosity, and operator experience.



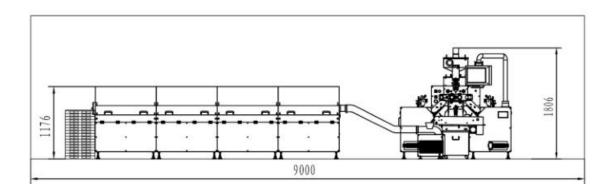
Machine Components:

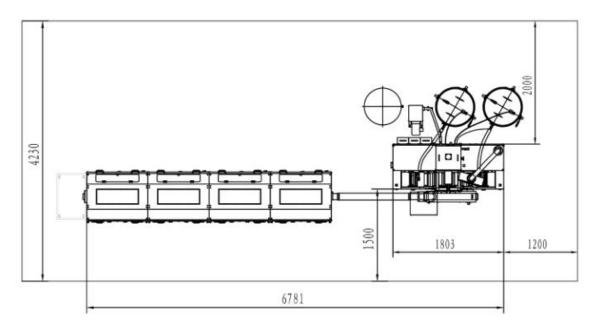


Aprila SG 200

Medium Scale Production

Dimensions:





Technical Data	Aprila SG 200
Mold Sizes (mm)	φ125 x 200
Speed	Up to 5 RPM
Capacity (8# OVAL 4RPM)	64,800 pcs/h
Power	220V/380V,50/60Hz,3 Phase,2.5 Kw
Machine Dimensions (mm)	1800×1050×1800
Weight	1300 kgs
Tumble Dryers	4

Softgel Support Equipment

Aprila SG 200

Chilling System

The chilling unit is modular to fit your available floor space. *Refrigeration capacity: 7.91Kw Power: 220 V 50 Hz 1P 3.33Kw Dimensions: 930x520x975mm Weight: 135Kg*

Gel Melter

600 liter capacity gelatin melting and mixing tank is made from all stainless steel construction with sanitary stainless steel valves and clamps, a triple wall jacket with breather. *Volume: 600L*

Temperature: <100 °C Power:5.5Kw Mix speed: 51rpm Dimensions: Φ1300x2200 Weight: 1400Kg

Drying Trays

The softgels come out of the tumble dryers and are placed on paper lined drying trays. The trays are then stacked on dollies and pushed into drying tunnels.

Dimensions: 750x 475x55mm

Tumble Dryers

Each tumble dryer has been designed to provide fast and easy drying of a softgel capsule, stability of machine operation, user convenience, and safety. *Quantity of tumbler:4 Tumbler size:* Φ 580x900mm *Power supply: 380 V 50 Hz 3P,4Kw Dimensions: 4100x880x1200mm Weight: 1200 Kg*

Softgel Tooling

The Softgel tooling is custom made to meet your needs with a 2-week turnaround. It features harder aircraft grade aluminum, colored timing marks, and "bead blasting" to minimize gel adhesion.

Complete set includes:

- 2 die rolls with stainless steel inserts
- Teflon ceramic coated aluminum wedge
- Solid Teflon distribution plate
- Industrial, compact storage case
- Timing gear











Large Scale Production

Softgel Encapsulation System



Large Standard & Vgel Production

The SaintyCo **Aprila SG 250** softgel production system to satisfy customer varying output requirements-ranging from smaller systems to support first time start-up operators to large scale production needing the worlds fastest softgel encapsullator. With speeds up to 5 RPM and production volumes up to 109,200 softgels per hour @ 8 Oval 4 RPM base on oil.

The **Aprila SG 250** softgel production system is an industry standard for large scale softgel production. And it gives you the ability to produce both standard aninal gelatin as well as popular vgel plant based gelatin softgels.



Large Scale Production

Aprila SG 250

Features:

- Up to 109,200 pcs/hour(8# OVAL 4PRM)
- Operating speed up to 5RPM
- Die roll φ150*250mm AL7075 Dura Aluminum fabrication
- Teflon coated brass machine injection wedge
- Suitable for use in pharmaceutical, food and recreational industries
- Color touchscreen control provides easy production management

Size/Shape	Cavities	Output Per Hour (@ 4 RPM)
6 Oval	504	120960
8 Oval	455	109200
10 Oval	408	97920
8 Oblong	410	98400
20 Oblong	238	57120
6 Round	680	163200
40 Round	286	68640

Production Estimates:

Production rates may vary depending on machine speed, fill material viscosity, and operator experience.



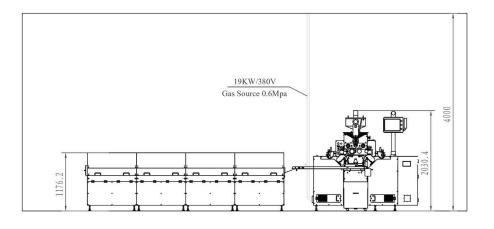
Machine Components:

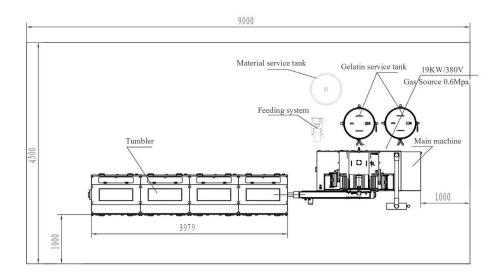
- Medicine pump
 Wedge
 Spreader box
 Die roll
 Lubrication roller
 Mangle conveyor
 Softgel transfer conveyor
 Main body
- Olor touchscreen

Large Scale Production

Aprila SG 250

Dimensions:





Technical Data	Aprila SG 250
Mold Sizes (mm)	Φ150 x 250
Speed	Up to 5 RPM
Capacity (8# OVAL 4RPM)	109,200 pcs/h
Power	220V/380V,50/60Hz,3 Phase,19 Kw
Machine Dimensions (mm)	2050x1200x1850
Weight	1900 kgs
Tumble Dryers	4

Softgel Support Equipment

Aprila SG 250

Chilling System

The chilling unit is modular to fit your available floor space. *Refrigeration capacity: 7.91Kw Power: 220 V 50 Hz 1P 3.33Kw Dimensions: 930x 520x975mm Weight: 135Kg*

Gel Melter

600 liter capacity gelatin melting and mixing tank is made from all stainless steel construction with sanitary stainless steel valves and clamps, a triple wall jacket with breather. *Volume: 600L*

Temperature: <100 °C Power:5.5Kw Mix speed: 51rpm Dimensions: Φ1300x2200 Weight: 1400Kg

Drying Trays

The softgels come out of the tumble dryers and are placed on paper lined drying trays. The trays are then stacked on dollies and pushed into drying tunnels.

Dimensions: 750x475x55mm

Tumble Dryers

Each tumble dryer has been designed to provide fast and easy drying of a softgel capsule, stability of machine operation, user convenience, and safety. *Quantity of tumbler:4 Tumbler size:* Φ 580x900mm *Power supply: 380 V 50 Hz 3P,4Kw Dimensions: 4100x880x1200mm Weight: 1200 Kg*

Softgel Tooling

The Softgel tooling is custom made to meet your needs with a 2-week turnaround. It features harder aircraft grade aluminum, colored timing marks, and "bead blasting" to minimize gel adhesion.

Complete set includes:

- 2 die rolls with stainless steel inserts
- Teflon ceramic coated aluminum wedge
- Solid Teflon distribution plate
- Industrial, compact storage case
- Timing gear



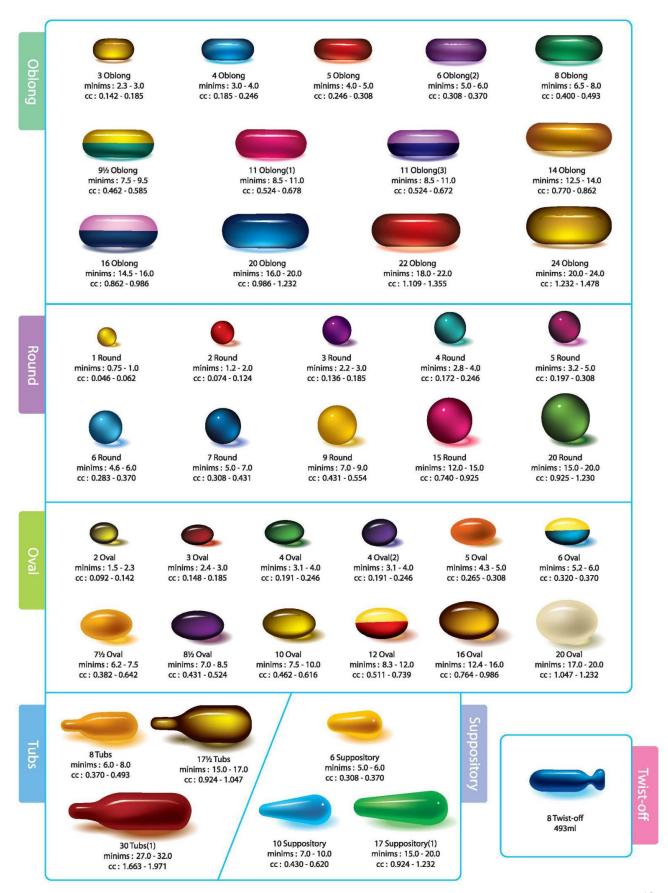








Soft Capsule Size&Shape



GMV Gelatin Melting System



			1	1
Model	GMV-450	GMV-600	GMV-800	GMV-1000
Melting Volume	100-450L	150-600L	200-800L	300-1000L
Volume	650L	900L	1100L	1300L
Heating area	3.2 m ² 4 m ²		4.8 m²	5.5m²
Vacuum degree	Less than 0.09mpa			
Temperature	Less than 100°C			
Power	4kw 5.5kw		7.5kw	7.5kw
Mix speed	51rpm 51rpm 51		51rpm	51rpm
Tank weight	1300kgs 1400kgs		1500kgs	1600kgs
Tank dimension	Ф1200x2200mm	Ф1300x2200mm	Ф1400x2200mm	Ф1500x2200mm

GMV Moving Gelatin Melting Tank



Model	GMV-100	GMV-150	GMV-200
Melting Volume	50-100L	75-150L	100-200L
Volume	120L	180L	250L
Vacuum degree	Less than 0.09mpa		
Temperature	Less than 100° C		
Motor power	0.75kw	1.1kw	2.2kw
Heating	4kw	4kw	5kw
Mix speed	51rpm	51rpm	51rpm
Tank dimension	Φ600x1380mm	Ф600x1580mm	Ф700x1680mm

GST Gelatin Service Tank



Model	GST-100	GST-200	GST-300
Volume	100L	200L	300L
Temperature	< 100°C	< 100°C	< 100°C
Pressure	< 0.05Mpa	< 0.05Mpa	< 0.05Mpa
Power supply	220V/60HZ 1.5KW	220V/60HZ 2KW	220V/60HZ 2.5KW
Dimension	Φ550x1210 mm	Φ700x1330 mm	Φ800x1370 mm

FMV Medicine Mixing Tank



Model	FMV-300	FMV-500	FMV-800	FMV-1000
Volume	100-300L	200-500L	200-800L	200-1000L
Heating area	2.8 m²	3.2 m ²	4.8 m ²	5.5 m ²
Temperature	Less than 100° C	Less than $100^\circ\!\!\!\mathrm{C}$	Less than 100° C	Less than 100° C
Power	2.2kw	4kw	5.5kw	5.5kw
Mix speed	51rpm	51rpm	51rpm	51rpm
Tank weight	1100kgs	1300kgs	1400kgs	1500kgs
Tank dimension	Ф1000x2100mm	Ф1200x2300mm	Ф1300x2450mm	Φ1300x2650mm

FMV-V Vacuum Medicine Mixing Tank



Model	FMV-V-300	FMV-V-500	FMV-V-800	FMV-V-1000
Volume	100-300L	200-500L	200-800L	200-1000L
Heating area	2.8 m²	3.2m²	4.8 m²	5.5m²
Temperature	Less than 100℃	Less than $100^\circ C$	Less than $100^\circ\!\!\mathbb{C}$	Less than $100^\circ C$
Power	2.2kw	4kw	5.5kw	5.5kw
Mix speed	51rpm	51rpm	51rpm	51rpm
Tank weight	1300kgs	1400kgs	1500kgs	1600kgs
Tank dimension	Ф1100x2100mm	Ф1200x2300mm	Ф1400x2450mm	Ф1500x2650mm

MST Medicine Service Tank



Model	MST-100	MST-150	MST-200
Volume	100L	150L	200L
Temperature	< 100°C	< 100°C	< 100°C
Pressure	< 0.05Mpa	< 0.05Mpa	< 0.05Mpa
Power supply	220V/60HZ 1.5KW	220V/60HZ 1.5KW	220V/60HZ 2KW
Dimension	Φ550x1210 mm	Ф600x1330 mm	Φ700x1330 mm

Auxiliary Support Equipment

FCM-1 Color Mixer



Model	FCM-1
Capacity	800 kgs/h
Mixing power	7.5 kw
Mixing speed	0-1500 rpm
Power supply	380V/60HZ, 3 Phase
Dimension	1100x700x2400 mm

VM Vacuum Mixer



Model	VM-150	VM-200	VM-300
Volume	150 L	200 L	300 L
Vacuum degree	< 0.09 Mpa	< 0.09 Mpa	< 0.09 Mpa
Cutting power	3 KW	4 KW	4 KW
Cutting speed	0-1500 RPM	0-1500 RPM	0-1500 RPM
Mixing power	1.5 KW	1.5 KW	2.2 KW
Mixing speed	50 RPM	50 RPM	50 RPM
Electric heater	4 KW, 380V, 3 Phase	5 KW, 380V, 3 Phase	6 KW, 380V, 3 Phase
Dimension	1580x860x2100 mm	1600x860x2150 mm	17100x860x2200 mm

SP-200 Softgel Pulverizer



Model	SP-200
Capacity	60 kgs/hour
Grind speed	960 RPM
Net weight	80 kgs
Power supply	220V/60HZ 1.1KW
Dimension (LxWxH, mm)	Φ510x1200

S-12 Softgel Sorting Machine



Model	S-12
Sorting Size Range	0-25 mm
Sorting Precision	Dia. +/- 0.1 mm; thickness: +/- 0.05 mm
Capacity	Max. 30000 pcs/hour
Sorting Roller Qty	12 pcs (6 sorting ways)
Size of sorting roller	Dia 45 mm; Length 910 mm
Power supply	220V/60HZ 0.5KW
Dimension (LxWxH)	1650x1000x1750mm

I-500 Inspection Machine



I-500
Inspection of hard or soft capsules plain or coated tabletsand other
round or cylindrical objects.
3mm
Up to 120, 000 capsules/h
30 L
220V/50Hz, single phase
0.6 kw
0.6 MPa
1850 x 850 x 1315 mm
125 kg

TSP-1 Softgel Polishing Machine



Model	TSP-1
Internal diameter of basket	580 mm
Basket length	900 mm
Power	0.4 kw
Rotary speed	0-20 rpm
Basket quantity per section	2
Loading capacity per basket	> 20 kgs

Auxiliary Support Equipment

DSP-1 Softgel Polishing Machine



Model	DSP-1
Capacity	70 kgs/batch 5mins
Power	2.2 kw, 380V, 50Hz, 3 Phase
Rotary speed	0-30 rpm
Weight	320 kgs
Dimension	1700 x1000 x1700 mm

COMILL-1 Colloid Mill



Model	COMILL-1
Material Processing fineness	2-50µm
Capacity	50-500 kgs/h
Speed	2890 RPM
Power supply	220V/60HZ 4KW
Weight	190 kgs
Dimension	Φ450 x1136 mm

CTP Softgel Printing Machine



Model	CTP-1 Single side printing	CTP-2 Double side printing
Capacity	Any shape up 20000- 40,000 PCS/HR	
Compressed Air	40psi at 4SCFM continuous clean dry air (270Kpa at 0.0005m3/s)	
Power supply	220V 50Hz / 110V 60Hz 0.25KW	
Weight	120 kgs	
Dimension	610 x910 x640 mm	

SaintyCo also offer:

Encapsulation Solutions

Tablet Compression Solutions

Coating Systems

Cartoning Systems

Blister Packing Solutions

