



— Pharma Process & Packaging

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Aprila SG100

Softgel Encapsulation System



CATALOGUE

Softgel Encapsulation System

Small Standard & Vgel Production

The SainityCo **Aprila SG100** softgel production system is a new small capacity model. With speeds up to 5 RPM and production volumes up to 42,000 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.



Vgel & Standard Gelatin
Small Scale Production
Touch Screen Operated



Aprila SG100

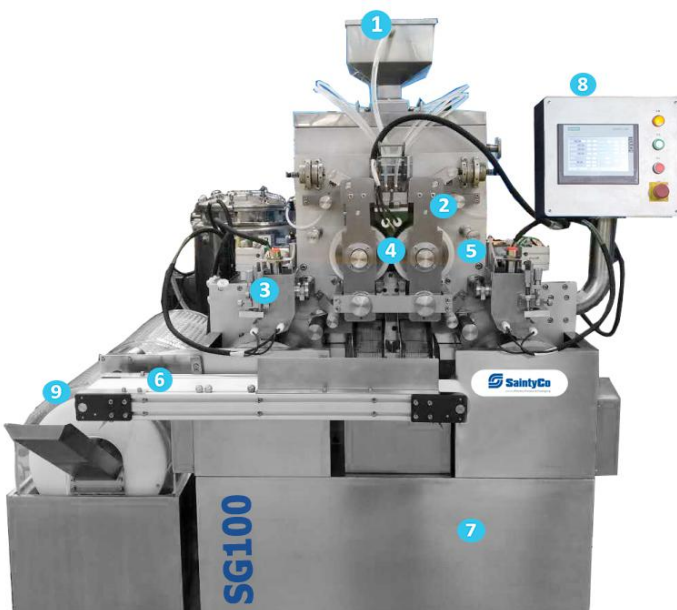
Features:

- Up to 42,000 pcs/hour(8# OVAL 4PRM)
- Operating speed up to 5RPM
- Die roll $\phi 150 \times 100$ mm 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	43200
8 Oval	175	42000
10 Oval	170	40800
8 Oblong	164	39360
20 Oblong	102	24480
6 Round	272	65280
40 Round	110	26400

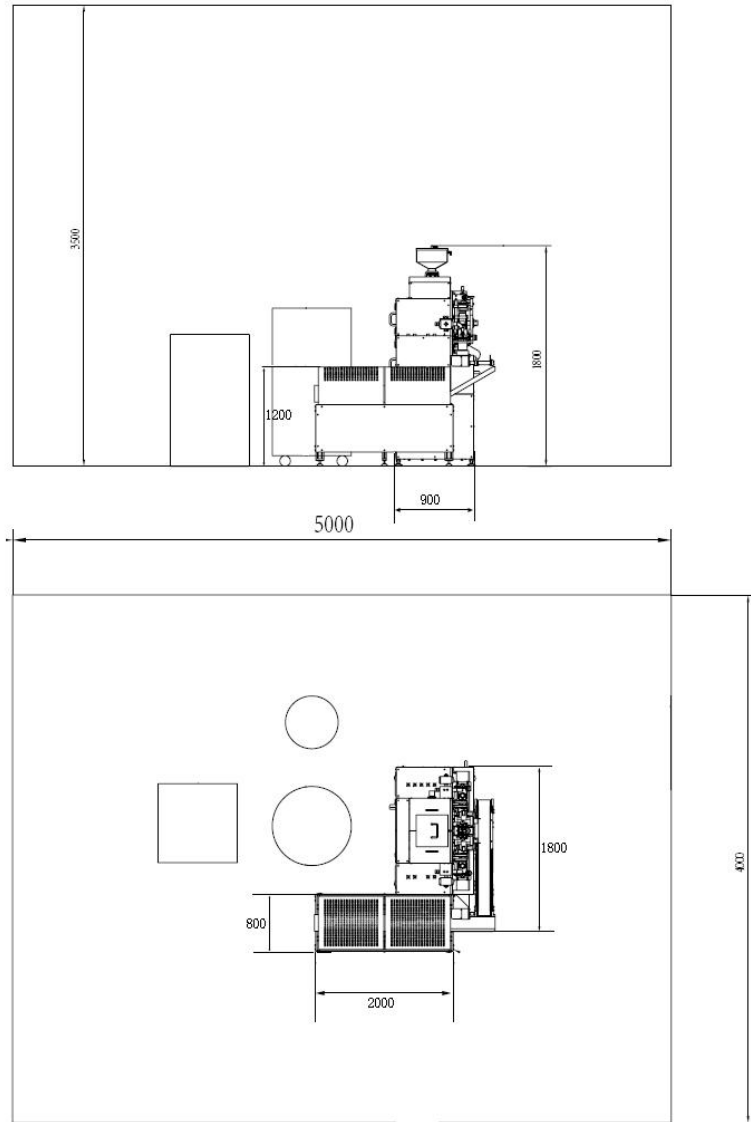
Production rates may vary depending on machine speed, fill material viscosity, and operator experience.



Machine Components:

- 1 Medicine pump
- 2 Wedge
- 3 Spreader box
- 4 Die roll
- 5 Lubrication roller
- 6 Mangle conveyor
- 7 Main body
- 8 Touch screen operated
- 9 Tumble dryer

Dimensions:



Technical Data	Aprila SG100
Mold Sizes (mm)	φ150 x 100
Speed	Up to 5 RPM
Capacity (8# OVAL 4PRM)	42,000 pcs/h
Power	220V/380V,50/60Hz,3 Phase,2.5 Kw
Machine Dimensions (mm)	1800x900x1750
Machine Weight	650 kgs
Tumble Dryers	2
Tumbler Size	φ 580x900mm
Tumbler Dimensions	2000x800x1200mm

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

200 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: 200L

Temperature: <100 °C

Power: 4kW

Mix speed: 36rpm

Dimensions: 1200x750x1725mm



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: Φ 580x900mm

Power supply: 380 V 50 Hz 3P

Dimensions: 2000x800x1200mm

Weight: 600 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

Aprila SG100

Oblong	 3 Oblong minims : 2.3 - 3.0 cc : 0.142 - 0.185	 4 Oblong minims : 3.0 - 4.0 cc : 0.185 - 0.246	 5 Oblong minims : 4.0 - 5.0 cc : 0.246 - 0.308	 6 Oblong(2) minims : 5.0 - 6.0 cc : 0.308 - 0.370	 8 Oblong minims : 6.5 - 8.0 cc : 0.400 - 0.493	
	 9½ Oblong minims : 7.5 - 9.5 cc : 0.462 - 0.585	 11 Oblong(1) minims : 8.5 - 11.0 cc : 0.524 - 0.678	 11 Oblong(3) minims : 8.5 - 11.0 cc : 0.524 - 0.672	 14 Oblong minims : 12.5 - 14.0 cc : 0.770 - 0.862		
	 16 Oblong minims : 14.5 - 16.0 cc : 0.862 - 0.986	 20 Oblong minims : 16.0 - 20.0 cc : 0.986 - 1.232	 22 Oblong minims : 18.0 - 22.0 cc : 1.109 - 1.355	 24 Oblong minims : 20.0 - 24.0 cc : 1.232 - 1.478		
Round	 1 Round minims : 0.75 - 1.0 cc : 0.046 - 0.062	 2 Round minims : 1.2 - 2.0 cc : 0.074 - 0.124	 3 Round minims : 2.2 - 3.0 cc : 0.136 - 0.185	 4 Round minims : 2.8 - 4.0 cc : 0.172 - 0.246	 5 Round minims : 3.2 - 5.0 cc : 0.197 - 0.308	
	 6 Round minims : 4.6 - 6.0 cc : 0.283 - 0.370	 7 Round minims : 5.0 - 7.0 cc : 0.308 - 0.431	 9 Round minims : 7.0 - 9.0 cc : 0.431 - 0.554	 15 Round minims : 12.0 - 15.0 cc : 0.740 - 0.925	 20 Round minims : 15.0 - 20.0 cc : 0.925 - 1.230	
Oval	 2 Oval minims : 1.5 - 2.3 cc : 0.092 - 0.142	 3 Oval minims : 2.4 - 3.0 cc : 0.148 - 0.185	 4 Oval minims : 3.1 - 4.0 cc : 0.191 - 0.246	 4 Oval(2) minims : 3.1 - 4.0 cc : 0.191 - 0.246	 5 Oval minims : 4.3 - 5.0 cc : 0.265 - 0.308	 6 Oval minims : 5.2 - 6.0 cc : 0.320 - 0.370
	 7½ Oval minims : 6.2 - 7.5 cc : 0.382 - 0.642	 8½ Oval minims : 7.0 - 8.5 cc : 0.431 - 0.524	 10 Oval minims : 7.5 - 10.0 cc : 0.462 - 0.616	 12 Oval minims : 8.3 - 12.0 cc : 0.511 - 0.739	 16 Oval minims : 12.4 - 16.0 cc : 0.764 - 0.986	 20 Oval minims : 17.0 - 20.0 cc : 1.047 - 1.232
Tubs	 8 Tubs minims : 6.0 - 8.0 cc : 0.370 - 0.493		 17½ Tubs minims : 15.0 - 17.0 cc : 0.924 - 1.047			
	 30 Tubs(1) minims : 27.0 - 32.0 cc : 1.663 - 1.971		 10 Suppository minims : 7.0 - 10.0 cc : 0.430 - 0.620	 6 Suppository minims : 5.0 - 6.0 cc : 0.308 - 0.370	 17 Suppository(1) minims : 15.0 - 20.0 cc : 0.924 - 1.232	
					Suppository	Twist-off
					 8 Twist-off 493ml	

SaintyCo also offer:

Encapsulation Solutions

Tablet Compression Solutions

Coating Systems

Cartoning Systems

Blister Packing Solutions

