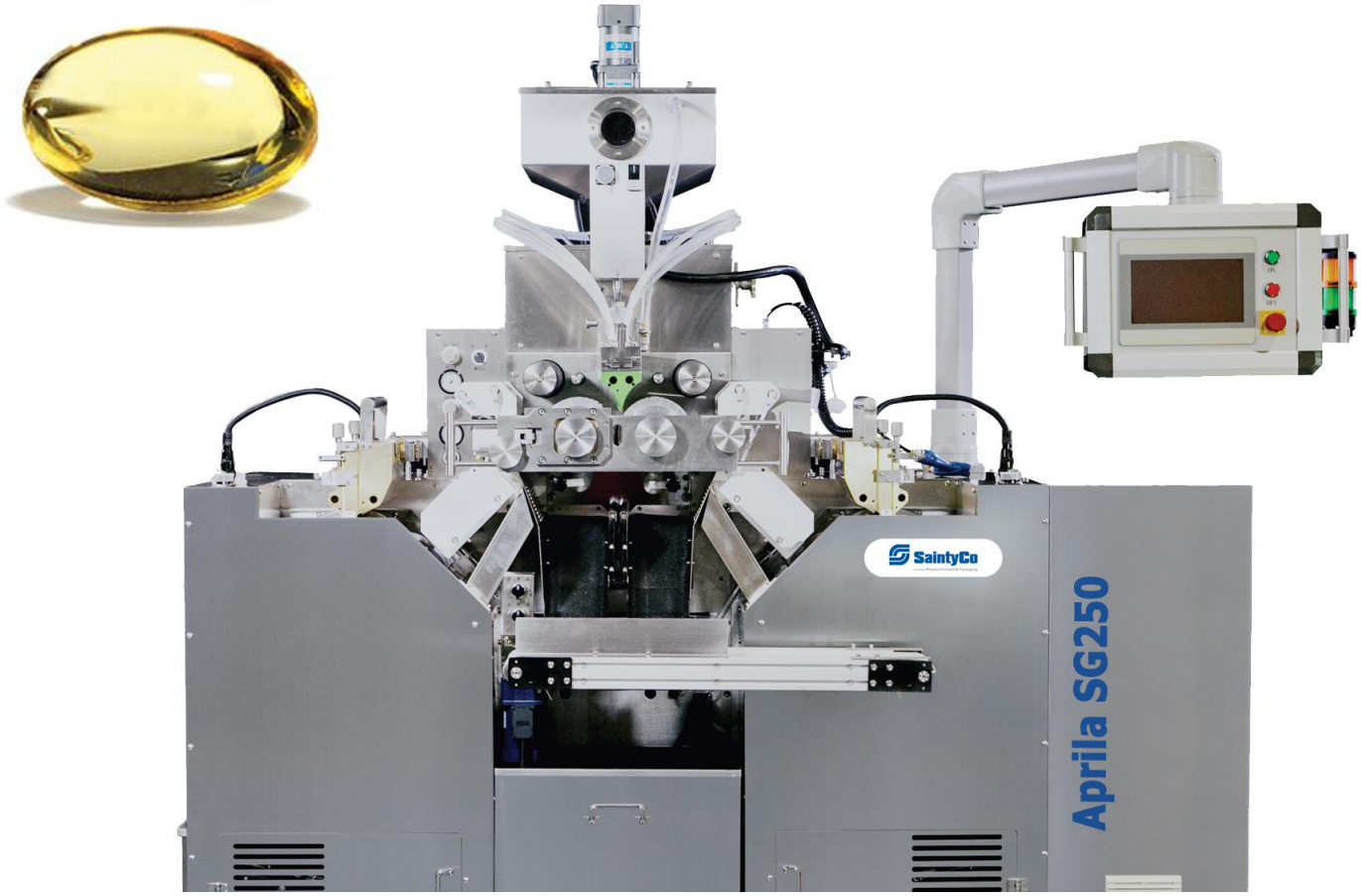
SaintyCo

Pharma Process & Packaging

www.saintyco.com

Aprila SG250

Softgel Encapsulation System



CATALOGUE

Softgel Encapsulation System

Large Standard & Vgel Production

The SaintyCo **Aprila SG250** 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 SG250** 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.

Vgel & Standard Gelatin
Large Scale Production
Touch Screen Operated

Aprila SG250

Large Scale Production

Aprila SG250

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

Production Estimates:

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

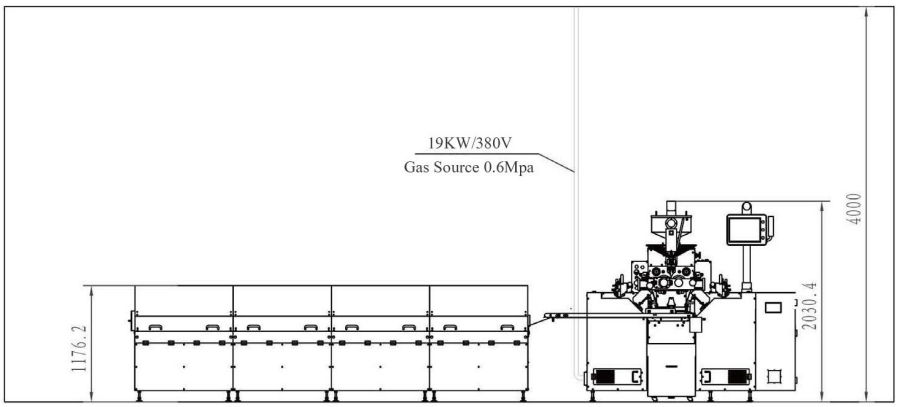
Machine Components:

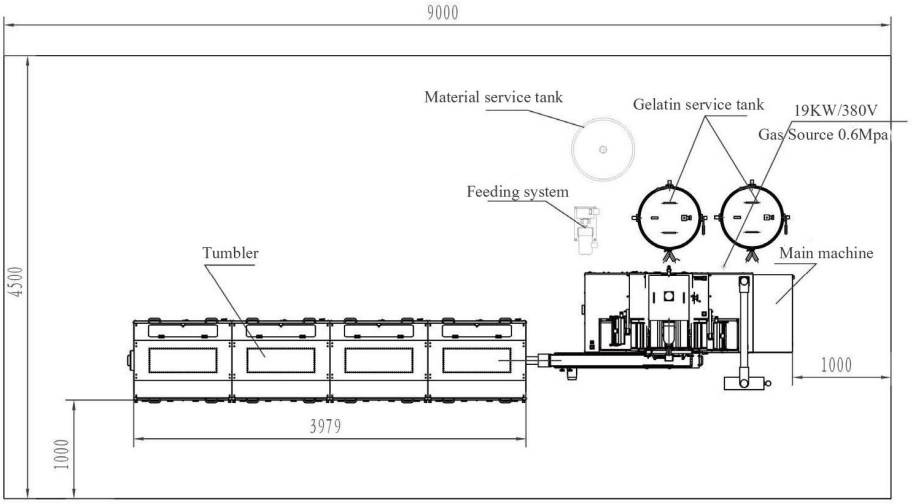
1. Medicine pump
2. Wedge
3. Spreader box
4. Die roll
5. Lubrication roller
6. Mangle conveyor
7. Softgel transfer conveyor
8. Main body
9. Color touchscreen

Large Scale Production

Aprila SG250

Dimensions:





Technical Data	Aprila SG250
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
Tumbler Size	Φ580x900mm
Tumbler Dimensions	4100x880x1200mm

Softgel Support Equipment

Aprila SG250

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 ℃

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: Φ580x900mm

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

Aprila SG250

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

Suppository

6 Suppository
minims : 5.0 - 6.0
cc : 0.308 - 0.370

10 Suppository
minims : 7.0 - 10.0
cc : 0.430 - 0.620

17 Suppository(1)
minims : 15.0 - 20.0
cc : 0.924 - 1.232

Twist-off

8 Twist-off
493ml

SaintyCo also offer:

Encapsulation Solutions

Tablet Compression Solutions

Coating Systems

Cartoning Systems

Blister Packing Solutions

SaintyCo
Pharma Process & Packaging