

Pilot Scale SoftGel Capsule Machine

SGL207NextGen



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This “Pilot Scale” soft gelatin machine has an operational speed of up to 5 RPM, 4 medicine plungers, and electronic gearing using servo motors. Its robust construction meets cGMP requirements. PLC and touchscreen provide more reliable control over production and process parameters for improved accuracy. Its design assists with easy cleaning, maintenance, assembly, and convenient changeover. It can be integrated with dryers, polishers, chilling systems, etc. Suitable for R&D, laboratories, nutraceutical industries, cannabis, and other facilities.

Features

- Pilot-scale soft gelatin machine.
- Motion Control System: the most important mechanical gearing replaced with electronic gearing in synchronized loops, using servo motors.
- Die Roll dimensions: approximately 4” x 3”.
- Operation speed – 0.5 – 5RPM.
- Control of all production and process parameters using Allen Bradley® programmable Logic Controllers (PLC) with touchscreen.
- Electrical panel and PLC incorporated within the machine.
- Sealed construction to prevent any possible rust and allows easy cleaning and maintenance.
- The outside covers of the machine are completely made from stainless steel, designed according to the GMP/FDA requirements.
- CFR 21 Part 11 compliance software.

Mechanism

Medicine Pump System

- The medicine pump is independently driven by a servo motor and electronically synchronized with the die rolls.
- During a capsule size change, the operator inputs the number of die roll cavities using the touchscreen, and the medicine pump timing is done electronically (no gear change is required).
- Precise injection timing adjustments are done electronically using the touchscreen; The timing can also be adjusted during operation, without stopping the machine. Since the timing can also be adjusted with such high accuracy, this improves on seal integrity of the capsule, which will increase capsule quality.
- The slide lubrication system for the pump is integrated into the drive mechanism.
- Four plunger standard pump.

Spreader Box

- Adaptable gelatin ribbon width that allows a minimum loss of ribbon net.
- Bronze construction.
- Gelatin level control is done electronically for gravity feeding from individual attached tanks; ground level gelatin feeding is also available, using a pressurized gelatin tank (optional).

Casting Drums

- “In-line” construction allows a straight gelatin ribbon transfer to the oil rolls and die rolls without any twisting.
- Water/Air cooled cast drums.

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Ribbon Lubrication & Drive System

- Porous material for lubrication roller.
- Electronic metering pump and a precise distributor valve allow accurate ribbon lubrication.
- Easy and accurate oil quantity adjustment.
- Independent electrical drives allow fine adjustments of the ribbon tension on each side.
- Easy access from the operator's side to feed the ribbon on the oil rollers.

Mechanism

Die Roll Pressure System

- Manually operated pneumatic valves for high and low pressure.

The Divider (Chute Assembly)

- Variable speed independent drive.
- Sealed construction.

Mangle Rolls

- Electronic speed adjustment allows fine-tuning of the ribbon tension and helps in the cutting process.

Wedge Lifting System

- Air-actuated lifting with a safe middle position of the injection wedge.

Machine Lubrication

- Closed lubrication system with a dedicated pump for the Die Roll housing.

Soft Capsule Transfer Conveyor

- Variable speed drive motor.
- Bi-directional.

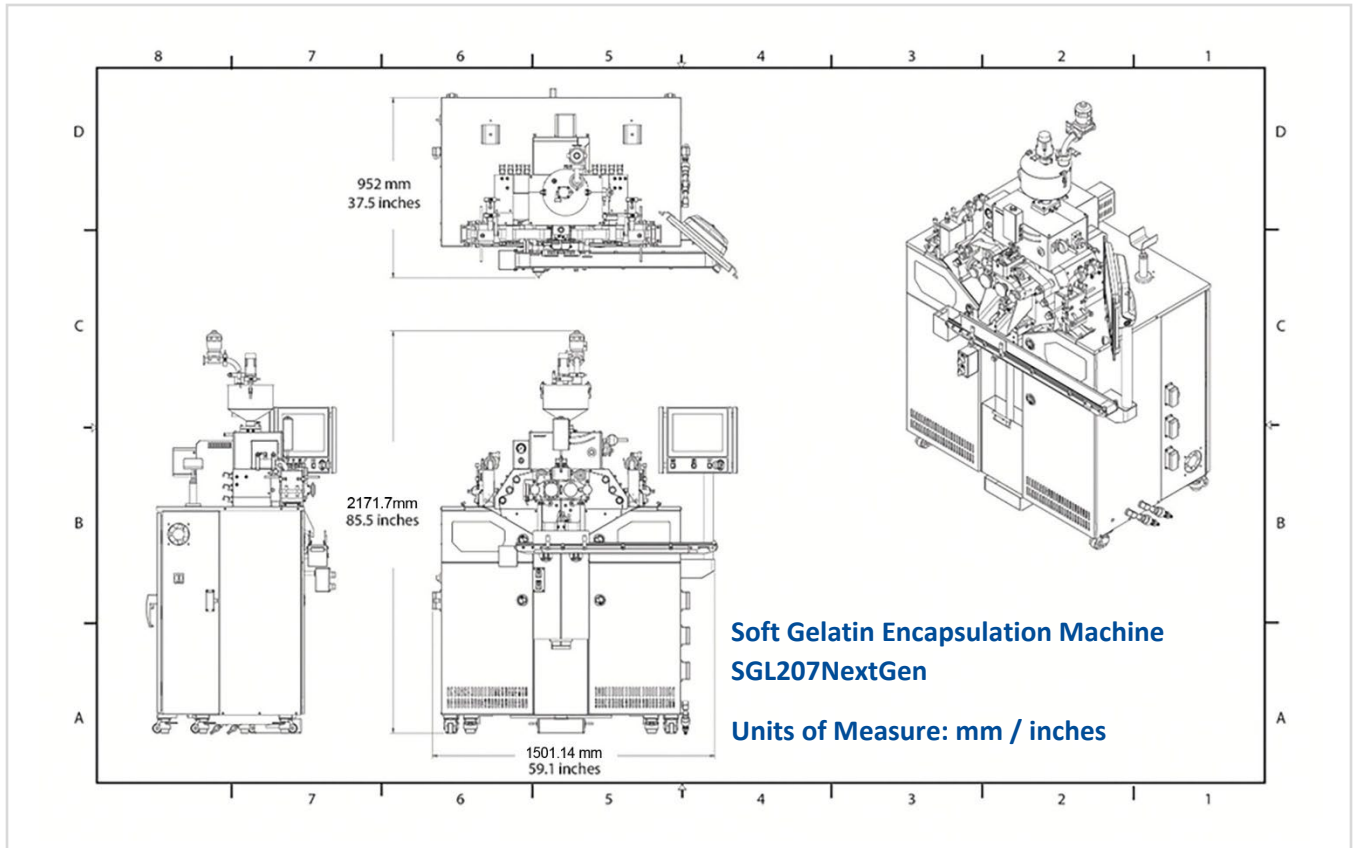
Set of aluminum die rolls (4" x 3") and change parts

- Specially coated injection wedge.
- Storage case.
- Die size – per customer requirements.

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Specifications



Model No.	
SGL207NextGen	Soft Gel Capsule Machine Next Gen – 5RPM
Specifications	
Dimensions (mm/inches)	1501.14mmL x 952mmW x 2171.7mmH (mm) / 59.1" L x 37.5" W x 85.5" H x (inches)
Weight (kg/lb)	900 kg / 1984 lbs
Machine Electrical Power	15 KVA
Compressed Air	100 PSI
Chilled Water	3.8 GPM

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2023-01-18rev.