



Commercial Scale Softgel Machine



SGM612 NextGen[®]

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Features

- **Motion Control System:** the mechanical gearing replaced with electronic gearing (implemented with closed loop control systems) using servo motors.
- **Die Roll dimensions:** approximately 6" x 12"
- **Operational speed-** up to 8 RPM. Nominal production speed 6 RPM.
- **Sealed construction** to prevent leakage and subsequent contamination.
- **Electrical panel and PLC** incorporated within machine.
- **Control of all production and process parameters** using Programmable Logic Controllers (PLC) with touch screen.
- **Aluminum frame construction** prevents 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.
- **Control of all production and process parameters** using safety PC based control system (embedded PC with technology and safety integrated). PC based visualization system (IPC with run-time software and industrial monitor).
- **Left and right casting drums** have independent control that could be adjusted on-the-fly (during production) by electronically changing the gear ratio between the drums and dies
- **Improved serviceability** as most of the interior components are sliding out for easier access.
- **Considerably reduced footprint and height.**
- **CFR 21 part 11 software compliance**

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 touch screen. The medicine pump timing is done electronically.
- Precise injection timing adjustments are done electronically using the touch screen. The timing can also be adjusted during production (without stopping the machine). Since this timing can be adjusted with such high accuracy it improves on seal integrity of the capsule. This in turn increases capsule quality and productivity.
- The medicine pump is placed in a special housing which is completely separated from the medicine pump drive system. This allows quick change over and easy maintenance.
- The slide lubrication system for the pump is an electronic pump located inside the machine. It is separated from the medicine pump drive system (GMP construction, no cross contamination of drive system with fill material).
- **Twenty (20) plunger medicine pump standard**
Mini medicine pump: Thirty (30) plungers and maxi medicine pump twenty (20) plungers available.
- **Main work area (Die Rolls)** situated 70 mm lower than previous generation machine.

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Die Roll Housing

- Two (2) independent Die Roll shafts driven by two (2) servo motors electronically synchronized, with high precision low backlash gearboxes.
- Fast and easy alignment of Die Roll shafts.
- No lubrication for Die Roll housing, leading to low maintenance cost.

Spreader Box

- Adaptable gelatin ribbon width that allows minimum loss of ribbon net.
- Bronze construction.

Gelatin level control is done electronically for gravity feeding. Ground level gelatin feeding also available.

Casting Drums

- "In-line" construction allows a straight gelatin ribbon transfer to the Oil Rolls and Die Rolls without any twisting.
- Cooling drums allow a high efficiency cooling at high speed.
- Water and air cooling system incorporated in machine.

Ribbon Lubrication & Drive System

- Porous material for lubrication roller.
- Four electronic metering pumps allow a very accurate ribbon lubrication.
- Easy and accurate oil quantity adjustment.
- Independent electrical drivers allow fine adjustments of the ribbon tension on each side.
- Easy access from the operator side to feed the ribbon on the Oil Rolls.

Die Roll Pressure System

- Electronic control of the pneumatic system.

The Divider (Chute Assembly)

- Variable speed independent drive.
- Sealed construction.

Mangle Rolls

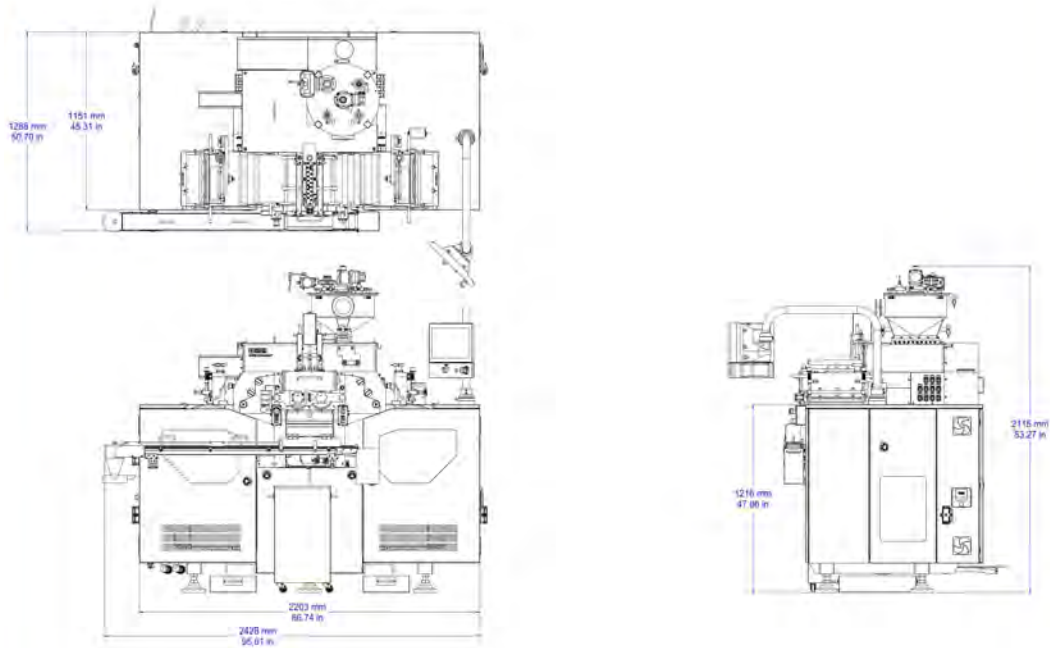
- Pneumatic cylinders for mangle roll pressure are used for ease of operation and maintenance.
- Electronic speed adjustment allows fine tuning of the ribbon tension and helps in the cutting process.

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Specification



Dimensions (mm/inch):	2428mm Lg x 1151mm W x 2115 mm H
Die Rolls:	150mm Dia x 300mm Lg
Drum Diameter (mm/inch):	506 mm
Weight (kg):	aprox. 2400 kg Machine
Electrical Power:	max.75 KVA
Compressed Air:	100 PSI
Chilled Water:	6 GPM, 7°C

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