TECHNOPHAR
A QUALICAPS COMPANY

THE KAITEKI COMPANY
Mitsubishi Chemical Holdings Group

Rx, OTC, Nutraceutical

SOFT GELATIN CAPSULE MACHINE

SGM610i





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SOFT GELATIN CAPSULE MACHINE



Features

•Motion Control System: the mechanical gearing replaced with electronic gearing in synchronized loops, using servo motors
•Die Roll dimensions: approximately 6" x 10"
•Operation speed - up to 8 RPM. Nominal production speed 6 RPM
•Control of all production and process parameters using Programmable Logic Controllers (PLC) with touch screen
•Electrical panel and PLC incorporated within machine
•Sealed construction to prevent leakage and subsequent contamination
•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



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 touch screen and 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, this improves on seal integrity of the capsule, which will increase capsule quality and productivity
- The medicine pump is placed in a special housing 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 and is separated from the medicine pump drive system (GMP construction and no cross contamination of the drive system with fill material)
- Eighteen (18) plunger medicine pump standard
- Mini medicine pump twenty-six (26) plungers and maxi medicine pump eighteen (18) plungers available

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

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; ground level gelatin feeding also available, using a gelatin pumping system (optional)

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Mechanism cont'd

Casting Drums
- "In-line" construction allows a straight gelatin ribbon transfer to the oil rolls and die rolls without any twisting
- 27.72" (704mm) diameter 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
- Two oil formulations available for each side of the ribbon
- Easy and accurate oil quantity adjustment
- Independent electrical drives allow fine adjustments of the ribbon tension on each side
- Easy access from the operator side to feed the ribbon on the oil rollers

Die Roll Pressure System
- Electronic control of the pneumatic system

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
- Pneumatic cylinders for mangle roll pressure are used for ease of operation and maintenance

Lifting System
- Pneumatic system for lowering and raising the wedge;

Machine Lubrication
- Closed lubrication system on all moving parts
- Separate lubrication pump for medicine pump housing drive

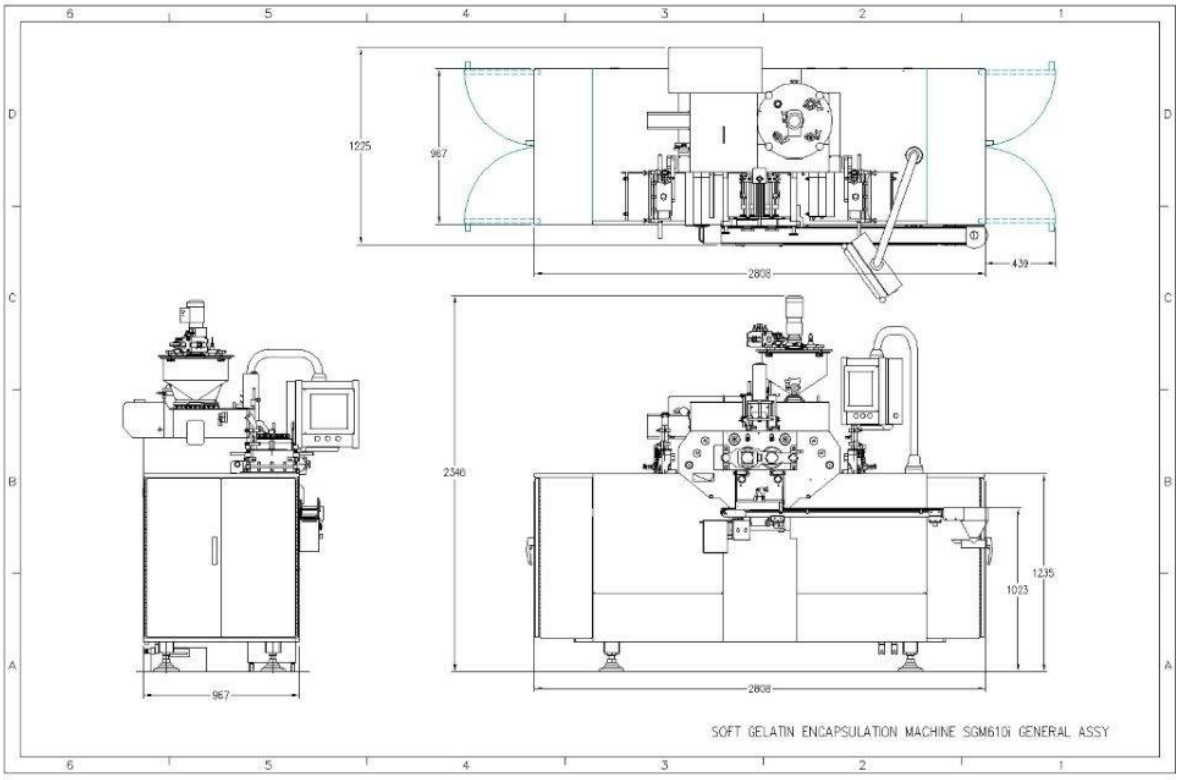
Soft Capsule Transfer Conveyor
- Variable speed drive motor
- Bi-directional
- Tension adjustment unit

Set of aluminum die rolls (6" x 10") and
- change parts
- Thermo regulated specially coated injection wedge with isobars for uniform heat distribution
- Distributor plate
- Storage case
- Die size – per customer requirements

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Specification



	SGM612i
Dimensions (mm/inches)	2808 x 1225 x 2345 / 110.6 x 48.2 x 92.3
Weight (kg/lb)	2500 / 5511
Machine Electrical Power	60 KVA
Compressed Air	100 PSI
Chilled Water	6 GPM

TECHNOPHAR

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