



Wuxi Jangli Machinery Co.,LTD

--25+Years Focus On Softgel ONLY

JL-250II Softgel Production Line

Brochure



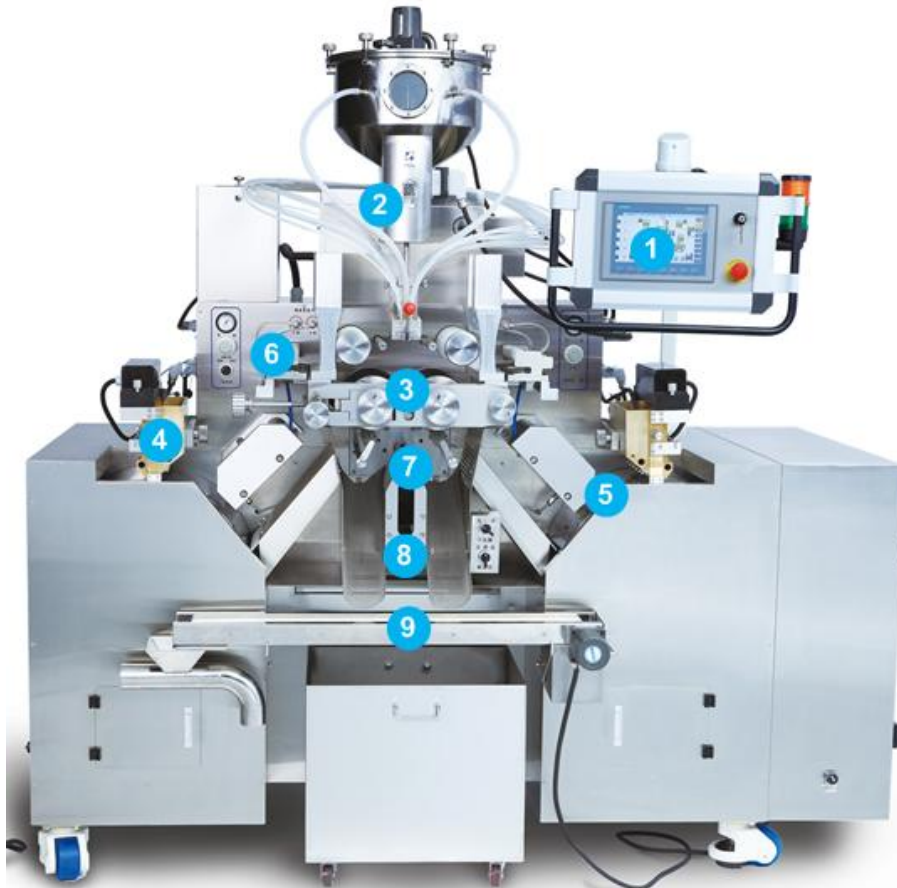
Introduction

- JL-250II Softgel Encapsulation Machine is newly designed standard gear driving machine; This machine is suitable for large commercial-scale production and its robust design meets GMP standards. This machine is with high productivity and good working performance and easy operation as well as easy maintenance.
- This softgel machine is applicable for both animal gelatin and plant based tapioca starch gelatin softgel production

Specification

Die Roller Size:	Ø150x250mm (10")
Rotating Speed:	0~5RPM(frequency control)
Single Plunger Filling Volume:	0~2ml
Plunger Quantity:	20 pieces (10 on each side)
Filling Volume Accuracy:	+/- 0.5%
Power Consumption:	12kw
Dimension:	2040X960X1900(h)mm
Weight:	650kgs

Structure



- | | | | |
|---|---|---|------------------|
| 1 | PLC Touch Screen | 7 | Capsule Stripper |
| 2 | Medicine Filling Pump | 8 | Mangle Roller |
| 3 | Die Roller Housing | 9 | Capsule Conveyor |
| 4 | Gelatin Spreader Boxes | | |
| 5 | Casting Drums | | |
| 6 | Gelatin Ribbon Lubricating and Driving System | | |

Touch Screen Panel

To keep up with the latest technological trends, this soft capsule encapsulate machine uses a SIEMENS PLC touch screen panel. It has a user friendly interface, and provides PID technology through which you can accurately control the temperature and speed of all parts.

Medicine Pump System

This softgel machine is equipped with standard 20 plungers medicine pump. But JANGLI can make slimmer plunger according to clients' special requirements. So maximum 34 plungers is available and there are multiple plunger diameter options(4/6/8/10mm).

Die Roll Housing

A pair of die roll shafts are driven by the main geared motor; The die roller shafts in this machine utilizes a high-tech Switzerland Bearing Machine. Thanks to this component, the concentricity is maintained even after lengthening the die roller. We adopted pneumatic device to give pressure to the die roller, so the process is easy and convenient.

Gelatin Spreader Boxes

For maximum heat conductivity, the spreader box is made of copper. A set of liquid level sensors are installed at the top of the spreader box. These sensors work alongside pinch valves. They operate in tandem to automatically deliver gelatin liquid into the spreader box.

Casting Drums

This machine's casting drum is made of SS316 material, and has a very smooth surface. It is also kept constantly cool using some anti-freeze liquid. The liquid's temperature is further kept cool using an external air conditioner. For maximum cooling effect, a cooling fan is installed under the casting drum. The speed can be adjusted on the touch screen.

Gelatin Ribbon Lubricating and Driving System

The micro-lubricating oil roller has an innovative design. It is made of TT material, and has a collection of numerous holes. During operation, the oil flows right out of the holes smoothly. In addition to that, there are some regulating valves that control the emerging oil's volume. Together, these design features ensure a thin micro film of oil on the softgel capsules, that does not require drying or cleaning after production.

Capsule Stripper

Easy attachable softgel capsule strippers. Nylon brushes are standard while silicon rollers are optional.






Mangle Roller

The rolling speed can be adjusted on touch screen according to the gelatin ribbon tension.

Capsule Conveyor

The JL-250II Softgel Making Machine is equipped with a conveyor belt to transfer softgel capsules to tumble dryers. Conveyor belt is designed bi-directional, which is helpful for waste capsules collecting at the beginning of the production.

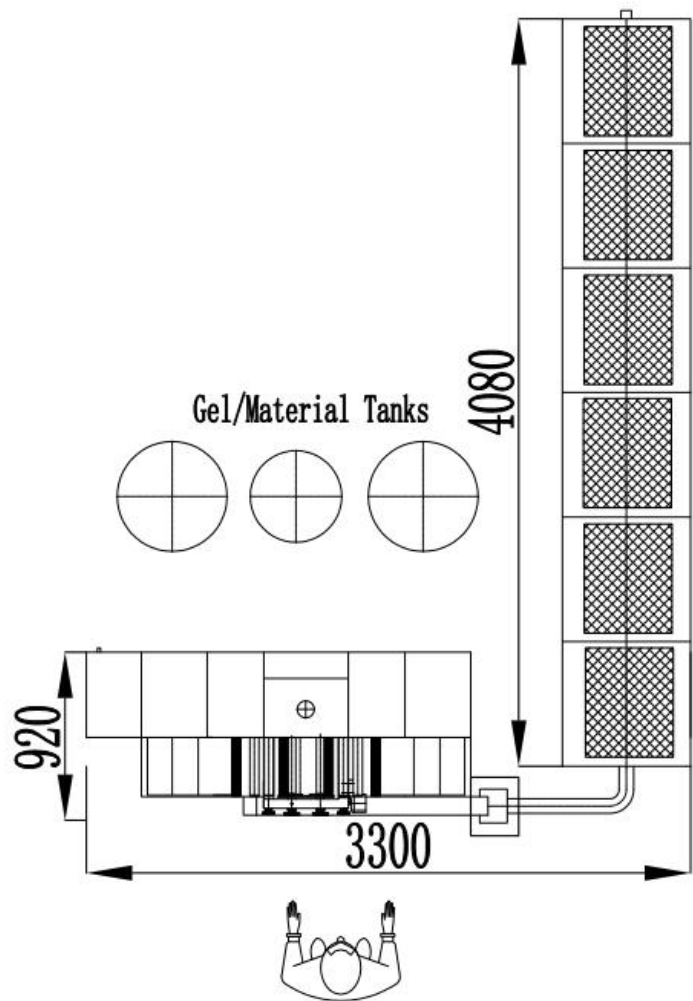
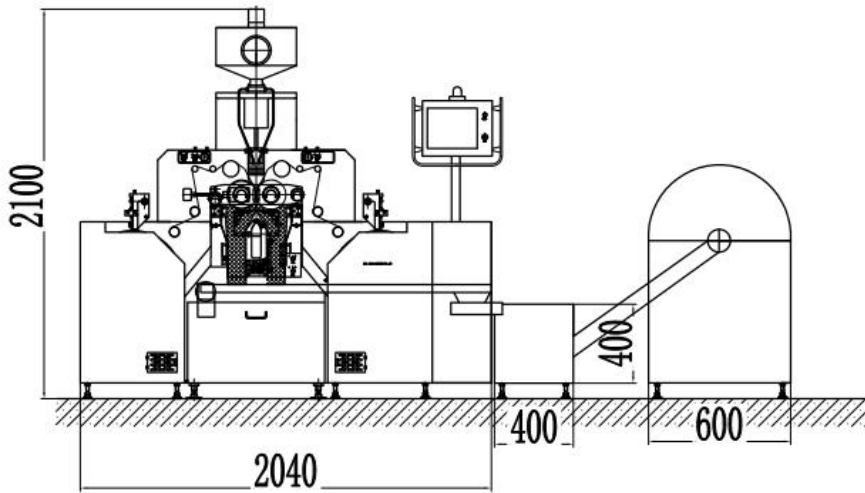
Output List

Capsule		Cavity Number	Output/hour (4rpm) ²
Shape	Size		
Oval 	6#	585	140,400
	8#	504	120,960
	10#	442	106,080
	14#	384	92,160
	16#	341	81,840
Oblong 	8#	420	100,800
	10#	410	98,400
	16#	350	84,000
	20#	245	58,800
Round 	38#	276	66,240
Tube 	20#	245	58,800
Other Shapes Available 			

Electrical configuration

1. PLC and touch screen: SIEMENS
2. Lower voltage apparatus: Schneider
3. Cable Conduct: Murrplastik
4. Terminal block: Weidemuller
5. Temperature Sensor: ABB

Standard Layout



Auxiliary Equipment



Initial Tumble Dryer

Medium baskets used for softgel shaping and initial drying

Model: JLGZ-B

Quantity: 6 basket



800L Gelatin Melting Tank

Used to make gelatin liquid. It is made by stainless steel and with inner layer, heating layer and insulation layer three layers. It is heated by hot water circulation.

Model: JLRJ-800

Quantity: 1 set



600L Medicine Preparation Tank

Tank used to mix medicine to make it smooth. It is three-layered structure, can be heated by circulation hot water. It adopted Star cycloidal reducer and three layer stirrer. With homogenizer on bottom to mill material better.

Model: JLPY-600

Quantity: 1 set



Auxiliary Equipment Unit

Consist of Hot water tank, hot water circulation pump, vacuum pump, vacuum condenser, electric cabinet and pipelines and valves. Used to heat and vacuumize the gelatin melting tank.

Quantity: 1 set



200L Gelatin Service Tank

This tank is used for storing and transporting gelatin from the gelatin melting tank to the softgel encapsulation machine. It adopts compressed air to press the gelatin out of the tank.

Model: JLBW-200

Quantity: 2 sets



200L Medicine Service Tank

This tank is used for storing and transporting medicine from medicine preparation tank to softgel encapsulation machine. It is single layer.

Model: JLSY-200

Quantity: 2 sets



Softgel Drying Trays and Trolleys

PP material and stackable drying trays, used for softgel final drying. Every 30 trays stack on one trolley